

**Entergy Arkansas, LLC
White Bluff Steam Electric Station
Recycle Ponds**

2023 Annual Groundwater Monitoring and Corrective Action Report

**Prepared in Compliance with the EPA Final Rule for the Disposal of
Coal Combustion Residuals Title 40 CFR Part 257**

Prepared for:



**PO Box 551
Little Rock, Arkansas 72203**

Prepared by:



**8550 United Plaza Blvd. Suite 502
Baton Rouge, LA 70809**

January 31, 2024

TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
1. INTRODUCTION	2
2. GROUNDWATER MONITORING SYSTEM	3
3. INSTALLED OR DECOMMISSIONED WELLS DURING 2023	4
4. GROUNDWATER MONITORING DATA.....	5
5. STATUS SUMMARY OF THE 2023 GROUNDWATER MONITORING PROGRAM	6
6. PROJECTED ACTIVITIES FOR 2024	7

LIST OF APPENDICES

APPENDIX A: Site Map

APPENDIX B: Groundwater Monitoring Data

EXECUTIVE SUMMARY

Entergy Arkansas, LLC (Entergy), operated two recycle ponds as part of its process water system for bottom ash transport at the White Bluff Steam Electric Station (Plant) located near Redfield, Arkansas. The recycle ponds provided intermediate storage of waters used in the transport of coal combustion residuals (CCR) generated from the combustion of coal at the plant. Pond A commenced closure as of October 2018 and Pond B commenced closure as of February 2021. Closure by removal was completed in the first half of 2022. The certified closure of two recycle ponds was completed on October 2, 2023. Management of the CCR at the recycle ponds is performed pursuant to national criteria established in Title 40 of the Code of Federal Regulations (40 CFR), Part 257 (CCR Rule), effective April 19, 2015 and subsequent revisions to the CCR Rule.

The Plant conducted two semi-annual detection monitoring events in 2023 for the recycle ponds CCR Unit monitoring well network per 40 CFR §257.94. The statistical analyses completed for the second semi-annual 2022 and first semi-annual 2023 sampling event analytical data did not identify statistically significant increases (SSIs). The recycle ponds CCR unit operated under the detection monitoring program (40 CFR §257.94) during the duration of 2023.

1. INTRODUCTION

Entergy Arkansas, LLC (Entergy), operated two recycle ponds as part of its process water system for bottom ash transport at the Plant located near Redfield, Arkansas (Lat: 34.421658 / Long: -92.139455). The recycle ponds provided intermediate storage of waters used in the transport of CCR generated from the combustion of coal at the Plant. Pond A commenced closure as of October 2018 and the Pond B commenced closure as of February 2021. Closure by removal was completed in the first half of 2022. The certified closure of two recycle ponds was completed on October 2, 2023. The recycle ponds are managed in accordance with the national criteria established in the CCR Rule. Entergy installed a groundwater monitoring system at the recycle ponds CCR Unit that is subject to the groundwater monitoring and corrective action requirements provided under §257.90 through §257.98 of the CCR rule. In accordance with §257.90(e) of the CCR rule, Entergy must prepare an annual report that provides information regarding the groundwater monitoring and corrective action program at the recycle ponds CCR Unit.

2. GROUNDWATER MONITORING SYSTEM

The recycle ponds CCR unit groundwater monitoring system consists of 10 monitoring wells as shown on Figure 1 included in Appendix A. Pursuant to §257.91(f) of the CCR rule, a qualified Arkansas-registered professional engineer has certified the groundwater monitoring system, which was designed and constructed to meet the requirements of §257.91.

3. INSTALLED OR DECOMMISSIONED WELLS DURING 2023

Entergy did not install any new wells or decommission any existing wells in the certified groundwater monitoring system during 2023.

4. GROUNDWATER MONITORING DATA

In accordance with §257.90(e)(3), all monitoring data obtained under §257.90 through §257.98 during 2023 are provided in Appendix B. Data include:

- Summary of the number of groundwater samples that were collected for analysis for each background and downgradient well;
- Dates the samples were collected; and
- Whether the sample was collected as part of detection or assessment monitoring.

5. STATUS SUMMARY OF THE 2023 GROUNDWATER MONITORING PROGRAM

Groundwater monitoring was performed in accordance with the detection monitoring requirements of §257.94. A summary of activities related to groundwater detection monitoring performed during 2023 is provided in the list below:

- In accordance with §257.94(b), semiannual detection monitoring was performed during the first half (June) and second half (November) of 2023 for analysis of Appendix III parameters (boron, calcium, chloride, fluoride, pH, sulfate and total dissolved solids (TDS)). Additionally, Appendix IV parameters were collected during the first half (June) and second half (November) of 2023. Collection of Appendix IV parameters was for information gathering purposes and not part of an assessment monitoring program.
- Statistical evaluation of the semiannual detection monitoring data was performed in accordance with the statistical method certified by a qualified Arkansas-registered professional engineer. The certified statistical method has been posted to Entergy's CCR Rule Compliance Data and Information website.
- Statistical evaluation of the second half 2022 semi-annual detection monitoring event was completed in 2023 and no SSIs were identified; therefore, Entergy did not prepare an alternative source demonstration (ASD) per §257.94(e)(2) for the detection monitoring event for the CADL CCR Unit.
- The first-half 2023 detection monitoring sampling was performed during June 2023. Based on statistical evaluation of the data, resampling was not required, and no SSIs were identified.
- No problems were encountered during 2023 with regard to the detection monitoring and corrective action system. Therefore, no actions were required to modify the system.
- The recycle ponds CCR unit remained in detection monitoring for the duration of 2023.

6. PROJECTED ACTIVITIES FOR 2024

The certified closure of two recycle ponds was completed on October 2, 2023. No activities are planned for the program during 2024.

APPENDIX A

SITE MAP

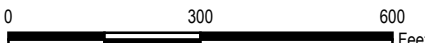


LEGEND

- ★ RECYCLING POND WELLS
- ⬡ RECYCLING POND BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO, 2018 .



1" = 300'
1:3,600

PROJECT:		ENTERGY WHITE BLUFF PLANT 1100 WHITE BLUFF ROAD REDFIELD, ARKANSAS	
TITLE:			
RECYCLING POND WELL LOCATIONS			
DRAWN BY:		S. MAJOR	PROJ. NO.: 489332
CHECKED BY:		L. BURRIS	FIGURE 1
APPROVED BY:		J. HOUSE	
DATE:		JANUARY 2023	
		Two United Plaza 8550 United Plaza Blvd., Suite 502 Baton Rouge, LA Phone: 225.216.7483	
FILE NO.:		431458-001.mxd	

APPENDIX B
GROUNDWATER MONITORING DATA

Sampling Schedule, Entergy White Bluff Recycle Ponds Network			
Well ID	Detection Monitoring Sampling Dates and Wells Sampled		Number of Samples Collected
	6/5-6/6/2023	11/13-11/14/2023	
RP-1	X	X	2
RP-2	X	X	2
RP-3	X	X	2
RP-4	X	X	2
RP-5	X	X	2
RP-6	X	X	2
RP-7	X	X	2
RP-8	X	X	2
RP-9	X	X	2
RP-10	X	X	2

Notes: All samples collected in 2023 were part of the detection monitoring program. No samples collected in 2023 were part of an assessment monitoring program.

Field pH data collected during 2023, Entergy White Bluff Recycle Ponds Network		
Well ID	Date Collected	pH (su)
RP-1	6/5/2023	3.71
	11/13/2023	3.59
RP-2	6/5/2023	3.81
	11/13/2023	4.20
RP-3	6/6/2023	3.53
	11/13/2023	3.35
RP-4	6/6/2023	5.82
	11/13/2023	5.70
RP-5	6/6/2023	3.64
	11/14/2023	4.04
RP-6	6/5/2023	4.51
	11/14/2023	4.88
RP-7	6/6/2023	3.64
	11/14/2023	3.76
RP-8	6/6/2023	5.50
	11/14/2023	5.78
RP-9	6/6/2023	6.16
	11/13/2023	5.79
RP-10	6/6/2023	3.69
	11/13/2023	3.64

GBMc & Associates - Bryant, AR

Sample Delivery Group: L1624861
Samples Received: 06/10/2023
Project Number: 1145-21-080
Description: Entergy - White Bluff
Site: WHITE BLUFF
Report To: Jonathan Brown
219 Brown Lane
Little Rock, AR 72022

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:



Brittanie L Boyd
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.

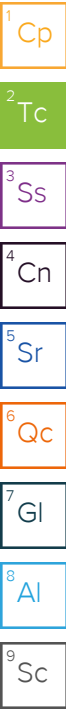
Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	4
Cn: Case Narrative	11
Sr: Sample Results	12
RP-1 L1624861-01	12
RP-2 L1624861-02	13
RP-3 L1624861-03	14
RP-4 L1624861-04	15
RP-5 L1624861-05	16
RP-6 L1624861-06	17
RP-7 L1624861-07	18
RP-8 L1624861-08	19
RP-9 L1624861-09	20
RP-10 L1624861-10	21
FIELD BLANK L1624861-11	22
DUPLICATE RP-2 L1624861-12	23
MW-101S L1624861-13	24
MW-102S L1624861-14	25
MW-103S L1624861-15	26
MW-104S L1624861-16	27
MW-105S L1624861-17	28
MW-106S L1624861-18	29
MW-110S L1624861-19	30
MW-111S L1624861-20	31
MW-101D L1624861-21	32
MW-102D L1624861-22	33
MW-103D L1624861-23	34
MW-104D L1624861-24	35
MW-105D L1624861-25	36
MW-106D L1624861-26	37
MW-107D L1624861-27	38
MW-108D L1624861-28	39
MW-109D L1624861-29	40
MW-110D L1624861-30	41
MW-112D L1624861-31	42
MW-113D L1624861-32	43
MW-114D L1624861-33	44
MW-115D L1624861-34	45
MW-118D L1624861-35	46

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

FIELD BLANK 1 L1624861-36	47
DUPLICATE 1 MW-106S L1624861-37	48
DUPLICATE 3 MW-112D L1624861-38	49
DUPLICATE 2 MW-110D L1624861-39	50
Qc: Quality Control Summary	51
Gravimetric Analysis by Method 2540 C-2011	51
Wet Chemistry by Method 9056A	54
Metals (ICP) by Method 6010B	58
Metals (ICPMS) by Method 6020	60
Gl: Glossary of Terms	62
Al: Accreditations & Locations	63
Sc: Sample Chain of Custody	64



SAMPLE SUMMARY

RP-1 L1624861-01 GW

Collected by
Will Glenn

Collected date/time
06/05/23 16:08

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	10	06/23/23 16:37	06/23/23 16:37	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	100	06/23/23 16:51	06/23/23 16:51	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/20/23 23:36	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 18:41	LD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

RP-2 L1624861-02 GW

Collected by
Will Glenn

Collected date/time
06/05/23 12:00

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 17:04	06/23/23 17:04	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/20/23 23:38	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 18:44	LD	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

RP-3 L1624861-03 GW

Collected by
Will Glenn

Collected date/time
06/06/23 14:14

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	10	06/23/23 18:38	06/23/23 18:38	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	5	06/23/23 17:58	06/23/23 17:58	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/20/23 23:41	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 18:48	LD	Mt. Juliet, TN

⁹ Sc

RP-4 L1624861-04 GW

Collected by
Will Glenn

Collected date/time
06/06/23 15:22

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 18:52	06/23/23 18:52	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/20/23 23:44	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 18:51	LD	Mt. Juliet, TN

RP-5 L1624861-05 GW

Collected by
Will Glenn

Collected date/time
06/06/23 09:20

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 19:05	06/23/23 19:05	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/20/23 23:52	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:04	LD	Mt. Juliet, TN

RP-6 L1624861-06 GW

Collected by
Will Glenn

Collected date/time
06/05/23 14:00

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 19:18	06/23/23 19:18	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	10	06/23/23 19:32	06/23/23 19:32	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/20/23 23:55	ZSA	Mt. Juliet, TN

ACCOUNT:

GBMc & Associates - Bryant, AR

PROJECT:

1145-21-080

SDG:

L1624861

DATE/TIME:

08/28/23 12:56

PAGE:

4 of 68

SAMPLE SUMMARY

RP-6 L1624861-06 GW

Collected by
Will Glenn

Collected date/time
06/05/23 14:00

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 18:28	LD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

RP-7 L1624861-07 GW

Collected by
Will Glenn

Collected date/time
06/06/23 10:27

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 19:45	06/23/23 19:45	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/20/23 23:58	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:07	LD	Mt. Juliet, TN

RP-8 L1624861-08 GW

Collected by
Will Glenn

Collected date/time
06/06/23 11:31

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 19:59	06/23/23 19:59	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:01	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:10	LD	Mt. Juliet, TN

RP-9 L1624861-09 GW

Collected by
Will Glenn

Collected date/time
06/06/23 13:00

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 20:14	06/23/23 20:14	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:04	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:14	LD	Mt. Juliet, TN

RP-10 L1624861-10 GW

Collected by
Will Glenn

Collected date/time
06/06/23 16:47

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 20:28	06/23/23 20:28	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	5	06/23/23 20:42	06/23/23 20:42	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:07	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:17	LD	Mt. Juliet, TN

FIELD BLANK L1624861-11 GW

Collected by
Will Glenn

Collected date/time
06/05/23 12:05

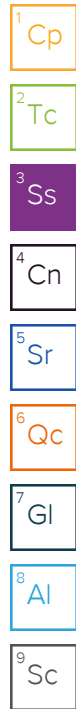
Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 21:22	06/23/23 21:22	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:10	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:20	LD	Mt. Juliet, TN

SAMPLE SUMMARY

DUPLICATE RP-2 L1624861-12 GW

				Collected by Will Glenn	Collected date/time 06/05/23 12:01	Received date/time 06/10/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 21:36	06/23/23 21:36	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:13	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:23	LD	Mt. Juliet, TN



MW-101S L1624861-13 GW

				Collected by Will Glenn	Collected date/time 06/08/23 14:11	Received date/time 06/10/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075111	1	06/12/23 18:48	06/13/23 02:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 21:49	06/23/23 21:49	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:15	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:27	LD	Mt. Juliet, TN

MW-102S L1624861-14 GW

				Collected by Will Glenn	Collected date/time 06/08/23 15:47	Received date/time 06/10/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075111	1	06/12/23 18:48	06/13/23 02:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 22:03	06/23/23 22:03	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:18	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:30	LD	Mt. Juliet, TN

MW-103S L1624861-15 GW

				Collected by Will Glenn	Collected date/time 06/07/23 11:44	Received date/time 06/10/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 22:16	06/23/23 22:16	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:27	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:33	LD	Mt. Juliet, TN

MW-104S L1624861-16 GW

				Collected by Will Glenn	Collected date/time 06/07/23 14:50	Received date/time 06/10/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 22:31	06/23/23 22:31	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:30	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:44	LD	Mt. Juliet, TN

MW-105S L1624861-17 GW

				Collected by Will Glenn	Collected date/time 06/07/23 15:52	Received date/time 06/10/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 22:44	06/23/23 22:44	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:32	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:47	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-106S L1624861-18 GW

Collected by
Will Glenn

Collected date/time
06/07/23 09:15

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 22:57	06/23/23 22:57	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	5	06/23/23 23:11	06/23/23 23:11	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:35	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:50	LD	Mt. Juliet, TN



MW-110S L1624861-19 GW

Collected by
Will Glenn

Collected date/time
06/07/23 13:42

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/24/23 00:18	06/24/23 00:18	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/21/23 00:38	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:53	LD	Mt. Juliet, TN

MW-111S L1624861-20 GW

Collected by
Will Glenn

Collected date/time
06/07/23 10:44

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	1	06/23/23 23:24	06/23/23 23:24	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083289	5	06/24/23 00:04	06/24/23 00:04	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075641	1	06/13/23 11:44	06/20/23 23:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075651	1	06/13/23 11:52	06/13/23 19:57	LD	Mt. Juliet, TN

MW-101D L1624861-21 GW

Collected by
Will Glenn

Collected date/time
06/08/23 18:43

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075111	1	06/12/23 18:48	06/13/23 02:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 11:41	06/24/23 11:41	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 00:46	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 17:39	LD	Mt. Juliet, TN

MW-102D L1624861-22 GW

Collected by
Will Glenn

Collected date/time
06/08/23 17:36

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075111	1	06/12/23 18:48	06/13/23 02:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 12:35	06/24/23 12:35	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 00:49	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 17:42	LD	Mt. Juliet, TN

MW-103D L1624861-23 GW

Collected by
Will Glenn

Collected date/time
06/07/23 12:11

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 12:48	06/24/23 12:48	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 00:51	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 17:45	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-104D L1624861-24 GW

Collected by
Will Glenn

Collected date/time
06/07/23 16:05

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075832	1	06/12/23 10:09	06/12/23 12:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 13:02	06/24/23 13:02	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 00:54	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 17:49	LD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-105D L1624861-25 GW

Collected by
Will Glenn

Collected date/time
06/06/23 12:30

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 13:42	06/24/23 13:42	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:02	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:00	LD	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

MW-106D L1624861-26 GW

Collected by
Will Glenn

Collected date/time
06/07/23 10:20

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 13:56	06/24/23 13:56	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:05	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:03	LD	Mt. Juliet, TN

⁹ Sc

MW-107D L1624861-27 GW

Collected by
Will Glenn

Collected date/time
06/06/23 10:20

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 14:09	06/24/23 14:09	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:08	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:06	LD	Mt. Juliet, TN

MW-108D L1624861-28 GW

Collected by
Will Glenn

Collected date/time
06/07/23 13:45

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 14:22	06/24/23 14:22	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:10	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:10	LD	Mt. Juliet, TN

MW-109D L1624861-29 GW

Collected by
Will Glenn

Collected date/time
06/08/23 10:30

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075111	1	06/12/23 18:48	06/13/23 02:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 14:36	06/24/23 14:36	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:13	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:13	LD	Mt. Juliet, TN

ACCOUNT:

GBMc & Associates - Bryant, AR

PROJECT:

1145-21-080

SDG:

L1624861

DATE/TIME:

08/28/23 12:56

PAGE:

8 of 68

SAMPLE SUMMARY

MW-110D L1624861-30 GW

Collected by
Will Glenn

Collected date/time
06/06/23 15:50

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 14:49	06/24/23 14:49	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:16	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:16	LD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-112D L1624861-31 GW

Collected by
Will Glenn

Collected date/time
06/06/23 17:30

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 15:03	06/24/23 15:03	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:19	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 17:26	LD	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

MW-113D L1624861-32 GW

Collected by
Will Glenn

Collected date/time
06/08/23 09:15

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075111	1	06/12/23 18:48	06/13/23 02:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 15:16	06/24/23 15:16	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	10	06/24/23 15:30	06/24/23 15:30	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:22	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:19	LD	Mt. Juliet, TN

⁹ Sc

MW-114D L1624861-33 GW

Collected by
Will Glenn

Collected date/time
06/08/23 12:55

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075111	1	06/12/23 18:48	06/13/23 02:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 15:43	06/24/23 15:43	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:23	LD	Mt. Juliet, TN

MW-115D L1624861-34 GW

Collected by
Will Glenn

Collected date/time
06/08/23 11:40

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075111	1	06/12/23 18:48	06/13/23 02:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 16:23	06/24/23 16:23	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:27	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:26	LD	Mt. Juliet, TN

MW-118D L1624861-35 GW

Collected by
Will Glenn

Collected date/time
06/06/23 14:10

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 16:37	06/24/23 16:37	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:35	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:29	LD	Mt. Juliet, TN

ACCOUNT:

GBMc & Associates - Bryant, AR

PROJECT:

1145-21-080

SDG:

L1624861

DATE/TIME:

08/28/23 12:56

PAGE:

9 of 68

SAMPLE SUMMARY

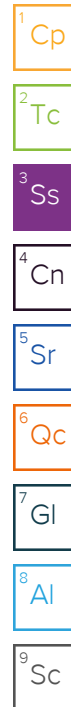
FIELD BLANK 1 L1624861-36 GW

Collected by
Will Glenn

Collected date/time
06/07/23 09:25

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 17:04	06/24/23 17:04	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:38	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:40	LD	Mt. Juliet, TN



DUPLICATE 1 MW-106S L1624861-37 GW

Collected by
Will Glenn

Collected date/time
06/07/23 09:16

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 17:17	06/24/23 17:17	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	10	06/24/23 17:30	06/24/23 17:30	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:41	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:44	LD	Mt. Juliet, TN

DUPLICATE 3 MW-112D L1624861-38 GW

Collected by
Will Glenn

Collected date/time
06/06/23 17:31

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 17:44	06/24/23 17:44	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 01:44	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:47	LD	Mt. Juliet, TN

DUPLICATE 2 MW-110D L1624861-39 GW

Collected by
Will Glenn

Collected date/time
06/06/23 15:50

Received date/time
06/10/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2075855	1	06/12/23 10:27	06/12/23 12:46	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2083802	1	06/24/23 17:57	06/24/23 17:57	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2075642	1	06/13/23 11:47	06/29/23 00:35	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2075653	1	06/13/23 11:49	06/13/23 18:50	LD	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. 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.



Brittnie L Boyd
Project Manager

Report Revision History

Level II Report - Version 1: 06/29/23 15:47
Level II Report - Version 2: 08/21/23 12:09

Project Narrative

EDD
Updated sample ID



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	4020		50.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	420		10.0	10	06/23/2023 16:37	WG2083289
Fluoride	2.02		1.50	10	06/23/2023 16:37	WG2083289
Sulfate	2240		500	100	06/23/2023 16:51	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/20/2023 23:36	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	330		1.00	1	06/13/2023 18:41	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	291		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	19.5		1.00	1	06/23/2023 17:04	WG2083289
Fluoride	ND		0.150	1	06/23/2023 17:04	WG2083289
Sulfate	110		5.00	1	06/23/2023 17:04	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/20/2023 23:38	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	16.6		1.00	1	06/13/2023 18:44	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1820		50.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	174		5.00	5	06/23/2023 17:58	WG2083289
Fluoride	0.948		0.750	5	06/23/2023 17:58	WG2083289
Sulfate	1280		50.0	10	06/23/2023 18:38	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/20/2023 23:41	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	203		1.00	1	06/13/2023 18:48	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	404		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	31.5		1.00	1	06/23/2023 18:52	WG2083289
Fluoride	0.369		0.150	1	06/23/2023 18:52	WG2083289
Sulfate	108		5.00	1	06/23/2023 18:52	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/20/2023 23:44	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	56.1		1.00	1	06/13/2023 18:51	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	498		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	40.7		1.00	1	06/23/2023 19:05	WG2083289
Fluoride	0.331		0.150	1	06/23/2023 19:05	WG2083289
Sulfate	244	E	5.00	1	06/23/2023 19:05	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/20/2023 23:52	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	42.6		1.00	1	06/13/2023 19:04	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1820		25.0	1	06/12/2023 12:22	WG2075832

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	33.2		1.00	1	06/23/2023 19:18	WG2083289
Fluoride	0.855		0.150	1	06/23/2023 19:18	WG2083289
Sulfate	1230		50.0	10	06/23/2023 19:32	WG2083289

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.580		0.200	1	06/20/2023 23:55	WG2075641

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	262	V	1.00	1	06/13/2023 18:28	WG2075651

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	440		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc3
Ss4
Cn5
Sr

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.61		1.00	1	06/23/2023 19:45	WG2083289
Fluoride	0.419		0.150	1	06/23/2023 19:45	WG2083289
Sulfate	216	E	5.00	1	06/23/2023 19:45	WG2083289

6
Qc7
Gl8
Al9
Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/20/2023 23:58	WG2075641

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	36.4		1.00	1	06/13/2023 19:07	WG2075651

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	329		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	21.8		1.00	1	06/23/2023 19:59	WG2083289
Fluoride	0.284		0.150	1	06/23/2023 19:59	WG2083289
Sulfate	160		5.00	1	06/23/2023 19:59	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/21/2023 00:01	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	37.4		1.00	1	06/13/2023 19:10	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	224		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	2.56	B	1.00	1	06/23/2023 20:14	WG2083289
Fluoride	0.156		0.150	1	06/23/2023 20:14	WG2083289
Sulfate	26.5		5.00	1	06/23/2023 20:14	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/21/2023 00:04	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	19.0		1.00	1	06/13/2023 19:14	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	844		13.3	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	58.9		1.00	1	06/23/2023 20:28	WG2083289
Fluoride	0.545		0.150	1	06/23/2023 20:28	WG2083289
Sulfate	488		25.0	5	06/23/2023 20:42	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.372		0.200	1	06/21/2023 00:07	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	58.3		1.00	1	06/13/2023 19:17	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	06/23/2023 21:22	WG2083289
Fluoride	ND		0.150	1	06/23/2023 21:22	WG2083289
Sulfate	ND		5.00	1	06/23/2023 21:22	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/21/2023 00:10	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	ND		1.00	1	06/13/2023 19:20	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	298		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	19.1		1.00	1	06/23/2023 21:36	WG2083289
Fluoride	ND		0.150	1	06/23/2023 21:36	WG2083289
Sulfate	107		5.00	1	06/23/2023 21:36	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/21/2023 00:13	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	16.3		1.00	1	06/13/2023 19:23	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	208		10.0	1	06/13/2023 02:36	WG2075111

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.50		1.00	1	06/23/2023 21:49	WG2083289
Fluoride	ND		0.150	1	06/23/2023 21:49	WG2083289
Sulfate	49.1		5.00	1	06/23/2023 21:49	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/21/2023 00:15	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	15.4		1.00	1	06/13/2023 19:27	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	198		10.0	1	06/13/2023 02:36	WG2075111

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.54		1.00	1	06/23/2023 22:03	WG2083289
Fluoride	ND		0.150	1	06/23/2023 22:03	WG2083289
Sulfate	23.1		5.00	1	06/23/2023 22:03	WG2083289

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/21/2023 00:18	WG2075641

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	12.5		1.00	1	06/13/2023 19:30	WG2075651

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	117		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	4.07	B	1.00	1	06/23/2023 22:16	WG2083289
Fluoride	ND		0.150	1	06/23/2023 22:16	WG2083289
Sulfate	37.0		5.00	1	06/23/2023 22:16	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/21/2023 00:27	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	4.57		1.00	1	06/13/2023 19:33	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	233		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	4.58	B	1.00	1	06/23/2023 22:31	WG2083289
Fluoride	ND		0.150	1	06/23/2023 22:31	WG2083289
Sulfate	73.9		5.00	1	06/23/2023 22:31	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.782		0.200	1	06/21/2023 00:30	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	16.3		1.00	1	06/13/2023 19:44	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	173		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	4.07	B	1.00	1	06/23/2023 22:44	WG2083289
Fluoride	ND		0.150	1	06/23/2023 22:44	WG2083289
Sulfate	21.5		5.00	1	06/23/2023 22:44	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/21/2023 00:32	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	13.7		1.00	1	06/13/2023 19:47	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1200		20.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	13.3		1.00	1	06/23/2023 22:57	WG2083289
Fluoride	0.728		0.150	1	06/23/2023 22:57	WG2083289
Sulfate	808		25.0	5	06/23/2023 23:11	WG2083289

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	7.40		0.200	1	06/21/2023 00:35	WG2075641

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	46.8		1.00	1	06/13/2023 19:50	WG2075651

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	441		10.0	1	06/12/2023 12:22	WG2075832

1
Cp2
Tc3
Ss4
Cn5
Sr

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	5.78		1.00	1	06/24/2023 00:18	WG2083289
Fluoride	0.228		0.150	1	06/24/2023 00:18	WG2083289
Sulfate	233	E	5.00	1	06/24/2023 00:18	WG2083289

6
Qc7
Gl8
Al9
Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	2.24		0.200	1	06/21/2023 00:38	WG2075641

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	5.85		1.00	1	06/13/2023 19:53	WG2075651

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1270		20.0	1	06/12/2023 12:22	WG2075832

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	11.5		1.00	1	06/23/2023 23:24	WG2083289
Fluoride	0.850		0.150	1	06/23/2023 23:24	WG2083289
Sulfate	854		25.0	5	06/24/2023 00:04	WG2083289

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	5.98		0.200	1	06/20/2023 23:24	WG2075641

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	118		1.00	1	06/13/2023 19:57	WG2075651

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	349		10.0	1	06/13/2023 02:36	WG2075111

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	5.99		1.00	1	06/24/2023 11:41	WG2083802
Fluoride	ND	P1	0.150	1	06/24/2023 11:41	WG2083802
Sulfate	74.0		5.00	1	06/24/2023 11:41	WG2083802

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/29/2023 00:46	WG2075642

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	48.0		1.00	1	06/13/2023 17:39	WG2075653

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	487		10.0	1	06/13/2023 02:36	WG2075111

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.28		1.00	1	06/24/2023 12:35	WG2083802
Fluoride	ND		0.150	1	06/24/2023 12:35	WG2083802
Sulfate	29.1		5.00	1	06/24/2023 12:35	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.277		0.200	1	06/29/2023 00:49	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	66.9		1.00	1	06/13/2023 17:42	WG2075653

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	422		10.0	1	06/12/2023 12:22	WG2075832

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.29		1.00	1	06/24/2023 12:48	WG2083802
Fluoride	0.166		0.150	1	06/24/2023 12:48	WG2083802
Sulfate	71.6		5.00	1	06/24/2023 12:48	WG2083802

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.286		0.200	1	06/29/2023 00:51	WG2075642

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	54.3		1.00	1	06/13/2023 17:45	WG2075653

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	321		10.0	1	06/12/2023 12:22	WG2075832

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	9.30		1.00	1	06/24/2023 13:02	WG2083802
Fluoride	ND		0.150	1	06/24/2023 13:02	WG2083802
Sulfate	20.1		5.00	1	06/24/2023 13:02	WG2083802

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.245		0.200	1	06/29/2023 00:54	WG2075642

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	55.4		1.00	1	06/13/2023 17:49	WG2075653

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	331		10.0	1	06/12/2023 12:46	WG2075855

1
Cp2
Tc3
Ss4
Cn5
Sr

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.28		1.00	1	06/24/2023 13:42	WG2083802
Fluoride	ND		0.150	1	06/24/2023 13:42	WG2083802
Sulfate	26.3		5.00	1	06/24/2023 13:42	WG2083802

6
Qc7
Gl8
Al9
Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.284		0.200	1	06/29/2023 01:02	WG2075642

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	54.4		1.00	1	06/13/2023 18:00	WG2075653

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	210		10.0	1	06/12/2023 12:46	WG2075855

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	5.01		1.00	1	06/24/2023 13:56	WG2083802
Fluoride	ND		0.150	1	06/24/2023 13:56	WG2083802
Sulfate	10.3		5.00	1	06/24/2023 13:56	WG2083802

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.277		0.200	1	06/29/2023 01:05	WG2075642

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	42.9		1.00	1	06/13/2023 18:03	WG2075653

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	470		10.0	1	06/12/2023 12:46	WG2075855

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	20.0		1.00	1	06/24/2023 14:09	WG2083802
Fluoride	ND		0.150	1	06/24/2023 14:09	WG2083802
Sulfate	137		5.00	1	06/24/2023 14:09	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.329		0.200	1	06/29/2023 01:08	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	82.8		1.00	1	06/13/2023 18:06	WG2075653

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	469		10.0	1	06/12/2023 12:46	WG2075855

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	12.7		1.00	1	06/24/2023 14:22	WG2083802
Fluoride	ND		0.150	1	06/24/2023 14:22	WG2083802
Sulfate	43.2		5.00	1	06/24/2023 14:22	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.352		0.200	1	06/29/2023 01:10	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	68.0		1.00	1	06/13/2023 18:10	WG2075653

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	372		10.0	1	06/13/2023 02:36	WG2075111

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.47		1.00	1	06/24/2023 14:36	WG2083802
Fluoride	ND		0.150	1	06/24/2023 14:36	WG2083802
Sulfate	49.9		5.00	1	06/24/2023 14:36	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.321		0.200	1	06/29/2023 01:13	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	47.4		1.00	1	06/13/2023 18:13	WG2075653

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	346		10.0	1	06/12/2023 12:46	WG2075855

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.63		1.00	1	06/24/2023 14:49	WG2083802
Fluoride	ND		0.150	1	06/24/2023 14:49	WG2083802
Sulfate	40.3		5.00	1	06/24/2023 14:49	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.322		0.200	1	06/29/2023 01:16	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	44.7		1.00	1	06/13/2023 18:16	WG2075653

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	308		10.0	1	06/12/2023 12:46	WG2075855

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.05		1.00	1	06/24/2023 15:03	WG2083802
Fluoride	ND		0.150	1	06/24/2023 15:03	WG2083802
Sulfate	ND		5.00	1	06/24/2023 15:03	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.287		0.200	1	06/29/2023 01:19	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	39.5		1.00	1	06/13/2023 17:26	WG2075653

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1160		20.0	1	06/13/2023 02:36	WG2075111

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	14.1		1.00	1	06/24/2023 15:16	WG2083802
Fluoride	ND		0.150	1	06/24/2023 15:16	WG2083802
Sulfate	653		50.0	10	06/24/2023 15:30	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.503		0.200	1	06/29/2023 01:22	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	184		1.00	1	06/13/2023 18:19	WG2075653

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	326		10.0	1	06/13/2023 02:36	WG2075111

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.42		1.00	1	06/24/2023 15:43	WG2083802
Fluoride	ND		0.150	1	06/24/2023 15:43	WG2083802
Sulfate	29.6		5.00	1	06/24/2023 15:43	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.275		0.200	1	06/29/2023 01:24	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	51.7		1.00	1	06/13/2023 18:23	WG2075653

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	342		10.0	1	06/13/2023 02:36	WG2075111

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	4.63	B	1.00	1	06/24/2023 16:23	WG2083802
Fluoride	ND		0.150	1	06/24/2023 16:23	WG2083802
Sulfate	ND		5.00	1	06/24/2023 16:23	WG2083802

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.346		0.200	1	06/29/2023 01:27	WG2075642

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	43.5		1.00	1	06/13/2023 18:26	WG2075653

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	566		10.0	1	06/12/2023 12:46	WG2075855

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.27		1.00	1	06/24/2023 16:37	WG2083802
Fluoride	ND		0.150	1	06/24/2023 16:37	WG2083802
Sulfate	162		5.00	1	06/24/2023 16:37	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.276		0.200	1	06/29/2023 01:35	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	90.6		1.00	1	06/13/2023 18:29	WG2075653

8
Al9
Sc

FIELD BLANK 1

Collected date/time: 06/07/23 09:25

SAMPLE RESULTS - 36

L1624861

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	06/12/2023 12:46	WG2075855

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	06/24/2023 17:04	WG2083802
Fluoride	ND		0.150	1	06/24/2023 17:04	WG2083802
Sulfate	ND		5.00	1	06/24/2023 17:04	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	06/29/2023 01:38	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	ND		1.00	1	06/13/2023 18:40	WG2075653

8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1180		20.0	1	06/12/2023 12:46	WG2075855

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	13.0		1.00	1	06/24/2023 17:17	WG2083802
Fluoride	0.801		0.150	1	06/24/2023 17:17	WG2083802
Sulfate	788		50.0	10	06/24/2023 17:30	WG2083802

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	7.69		0.200	1	06/29/2023 01:41	WG2075642

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	45.0		1.00	1	06/13/2023 18:44	WG2075653

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	258		10.0	1	06/12/2023 12:46	WG2075855

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.23		1.00	1	06/24/2023 17:44	WG2083802
Fluoride	ND		0.150	1	06/24/2023 17:44	WG2083802
Sulfate	ND		5.00	1	06/24/2023 17:44	WG2083802

3 Ss

4 Cn

5 Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.311		0.200	1	06/29/2023 01:44	WG2075642

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	39.9		1.00	1	06/13/2023 18:47	WG2075653

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	346		10.0	1	06/12/2023 12:46	WG2075855

1
Cp2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.68		1.00	1	06/24/2023 17:57	WG2083802
Fluoride	ND		0.150	1	06/24/2023 17:57	WG2083802
Sulfate	39.0		5.00	1	06/24/2023 17:57	WG2083802

3
Ss4
Cn5
Sr

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.321		0.200	1	06/29/2023 00:35	WG2075642

6
Qc7
Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Calcium	45.6		1.00	1	06/13/2023 18:50	WG2075653

8
Al9
Sc

Method Blank (MB)

(MB) R3937323-1 06/13/23 02:36

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1624192-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1624192-10 06/13/23 02:36 • (DUP) R3937323-3 06/13/23 02:36

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1400	1450	1	4.07		5

L1624861-32 Original Sample (OS) • Duplicate (DUP)

(OS) L1624861-32 06/13/23 02:36 • (DUP) R3937323-4 06/13/23 02:36

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1160	1190	1	2.72		5

Laboratory Control Sample (LCS)

(LCS) R3937323-2 06/13/23 02:36

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8570	97.4	77.3-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3936421-1 06/12/23 12:22

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U	⬇	10.0	10.0

L1624861-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1624861-02 06/12/23 12:22 • (DUP) R3936421-5 06/12/23 12:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	291	296	1	1.70		5

L1624861-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1624861-09 06/12/23 12:22 • (DUP) R3936421-6 06/12/23 12:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	224	220	1	1.80		5

Laboratory Control Sample (LCS)

(LCS) R3936421-2 06/12/23 12:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8320	94.5	77.3-123	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3936434-1 06/12/23 12:46

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1623688-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1623688-02 06/12/23 12:46 • (DUP) R3936434-3 06/12/23 12:46

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	134	138	1	2.94		5

L1623901-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1623901-01 06/12/23 12:46 • (DUP) R3936434-4 06/12/23 12:46

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	261	278	1	6.31	J3	5

Laboratory Control Sample (LCS)

(LCS) R3936434-2 06/12/23 12:46

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	7780	88.4	77.3-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3941971-1 06/23/23 10:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.465	⌋	0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	0.648	⌋	0.594	5.00

L1624861-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1624861-02 06/23/23 17:04 • (DUP) R3941971-3 06/23/23 17:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	19.5	19.7	1	1.14		15
Fluoride	ND	ND	1	8.32		15
Sulfate	110	110	1	0.667		15

L1624861-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1624861-19 06/24/23 00:18 • (DUP) R3941971-6 06/24/23 00:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	5.78	5.79	1	0.0363		15
Fluoride	0.228	0.224	1	1.77		15
Sulfate	233	234	1	0.534	E	15

Laboratory Control Sample (LCS)

(LCS) R3941971-2 06/23/23 10:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.2	95.5	80.0-120	
Fluoride	8.00	7.81	97.6	80.0-120	
Sulfate	40.0	37.5	93.6	80.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1624861-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1624861-02 06/23/23 17:04 • (MS) R3941971-4 06/23/23 17:31 • (MSD) R3941971-5 06/23/23 17:44

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	19.5	68.9	68.6	98.8	98.2	1	80.0-120			0.437	15
Fluoride	5.00	ND	4.81	4.80	94.2	94.1	1	80.0-120			0.135	15
Sulfate	50.0	110	160	159	99.2	97.0	1	80.0-120			0.681	15

L1624861-19 Original Sample (OS) • Matrix Spike (MS)

(OS) L1624861-19 06/24/23 00:18 • (MS) R3941971-7 06/24/23 00:45

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	5.78	55.9	100	1	80.0-120	
Fluoride	5.00	0.228	5.13	98.0	1	80.0-120	
Sulfate	50.0	233	274	83.0	1	80.0-120	E

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3941976-1 06/24/23 10:35

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	0.466	⌵	0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	0.654	⌵	0.594	5.00

L1624861-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1624861-21 06/24/23 11:41 • (DUP) R3941976-3 06/24/23 11:55

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	5.99	6.01	1	0.265		15
Fluoride	ND	ND	1	26.6	P1	15
Sulfate	74.0	75.5	1	1.97		15

L1624868-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1624868-01 06/24/23 18:11 • (DUP) R3941976-6 06/24/23 18:24

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	11.3	11.0	1	2.80		15
Sulfate	6.33	6.05	1	4.55		15

Laboratory Control Sample (LCS)

(LCS) R3941976-2 06/24/23 10:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	38.9	97.4	80.0-120	
Fluoride	8.00	7.99	99.9	80.0-120	
Sulfate	40.0	38.3	95.7	80.0-120	

L1624861-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1624861-21 06/24/23 11:41 • (MS) R3941976-4 06/24/23 12:08 • (MSD) R3941976-5 06/24/23 12:22

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	5.99	55.1	55.7	98.3	99.4	1	80.0-120			1.04	15
Fluoride	5.00	ND	4.79	4.93	93.8	96.6	1	80.0-120			2.87	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1624861-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1624861-21 06/24/23 11:41 • (MS) R3941976-4 06/24/23 12:08 • (MSD) R3941976-5 06/24/23 12:22

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	%	%		%			%	%
Sulfate	50.0	74.0	123	125	98.4	102	1	80.0-120			1.62	15

L1624868-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1624868-01 06/24/23 18:11 • (MS) R3941976-7 06/24/23 19:05

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	11.3	61.3	100	1	80.0-120	
Sulfate	50.0	6.33	56.7	101	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3939297-1 06/20/23 23:19

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3939297-2 06/20/23 23:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Boron	1.00	0.998	99.8	80.0-120	

L1624861-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1624861-20 06/20/23 23:24 • (MS) R3939297-4 06/20/23 23:30 • (MSD) R3939297-5 06/20/23 23:32

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 %
Boron	1.00	5.98	6.89	6.89	90.3	90.8	1	75.0-125			0.0711	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3942700-1 06/29/23 00:30

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3942700-2 06/29/23 00:32

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Boron	1.00	0.987	98.7	80.0-120	

L1624861-39 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1624861-39 06/29/23 00:35 • (MS) R3942700-4 06/29/23 00:41 • (MSD) R3942700-5 06/29/23 00:43

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	0.321	1.33	1.33	101	101	1	75.0-125			0.104	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3936335-1 06/13/23 18:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	U		0.0936	1.00

Laboratory Control Sample (LCS)

(LCS) R3936335-2 06/13/23 18:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5.00	4.87	97.3	80.0-120	

L1624861-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1624861-06 06/13/23 18:28 • (MS) R3936335-4 06/13/23 18:35 • (MSD) R3936335-5 06/13/23 18:38

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 %
Calcium	5.00	262	267	265	89.4	57.1	1	75.0-125		V	0.607	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3936323-1 06/13/23 17:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	U		0.0936	1.00

Laboratory Control Sample (LCS)

(LCS) R3936323-2 06/13/23 17:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5.00	4.65	93.0	80.0-120	

L1624861-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1624861-31 06/13/23 17:26 • (MS) R3936323-4 06/13/23 17:32 • (MSD) R3936323-5 06/13/23 17:35

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 %
Calcium	5.00	39.5	44.2	44.3	93.5	96.7	1	75.0-125			0.358	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

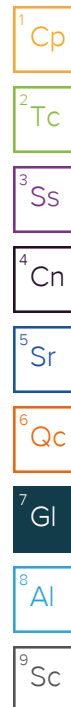
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
U	Not detected at the Reporting Limit (or MDL where applicable).
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.
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.
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

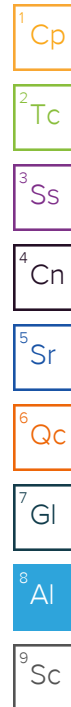
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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: GBMc & Associates - Bryant, AR 219 Brown Lane Little Rock, AR 72022				Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022				Analysis / Container / Preservative PH 10BDH4321 TRC 215414 CR6-20221V				Chain of Custody Page ____ of ____ 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: Will Glenn				Email To: Will.Glenn@AllianceTG.com; Jonathan.Brown@				BICP 250mlHDPE-HNO3 CAG 250mlHDPE-HNO3 Cl, F, SO4 125mlHDPE-NoPres TDS 1L-HDPE NoPres											
Project Description: Entropy - White Bluff		City/State Collected: _____		Please Circle: PT MT CT ET															
Phone: 501-847-7077		Client Project # 1145-21-080		Lab Project # GBMCBAR-ENTERGYWB															
Collected by (print): Will Glenn		Site/Facility ID # WHITE BLUFF		P.O. #															
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #															
Immediately Packed on Ice N ☐ Y ☒		Date Results Needed		No. of Cntrs															
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time													
RP-1		Grab	GW		6-5-23	1608	3	X	X	X	X								
RP-2		I	GW		I	1206	I	I	I	I	I								
RP-3		I	GW		6-6-23	1414	I	I	I	I	I								
RP-4		I	GW		I	1522	I	I	I	I	I								
RP-5		I	GW		I	920	I	I	I	I	I								
RP-6		I	GW		6-5-23	1400	I	I	I	I	I								
RP-7		I	GW		6-6-23	1027	I	I	I	I	I								
RP-8		I	GW		I	1131	I	I	I	I	I								
RP-9		I	GW		I	1300	I	I	I	I	I								
RP-10		I	GW		I	1647	I	I	I	I	I								
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks:				pH _____ Temp _____ Flow _____ Other _____				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									
Relinquished by : (Signature) 		Date: 6-9-23		Time: 1100		Received by: (Signature)		Trip Blank Received: Yes ☒ No ☐		HCL / MeOH TBR		If preservation required by Login: Date/Time							
Relinquished by : (Signature)		Date:		Time:		Received by: (Signature)		Temp: _____ °C		Bottles Received: 117		Hold:							
Relinquished by : (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: 6/10/23		Time: 900		Condition: NCF ☒ OK							

Company Name/Address: GBMc & Associates - Bryant, AR 219 Brown Lane Little Rock, AR 72022				Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022				Pres Chk 22				Analysis / Container / Preservative								Chain of Custody Page ____ of ____ PEOPLE ADVANCING SCIENCE 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: Will Glenn				Email To: Will.Glenn@AllianceTG.com; Jonathan.Brown@																				
Project Description: Entergy - White Bluff				City/State Collected: Please Circle: PT MT CT ET																				
Phone: 501-847-7077		Client Project # 1145-21-080		Lab Project # GBMCBAR-ENTERGYWB																				
Collected by (print): Will Glenn		Site/Facility ID # WHITE BLUFF		P.O. #																				
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #																				
Immediately Packed on Ice N ☐ Y ☒		Date Results Needed		No. of Cntrs																				
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time																		
FIELD BLANK		Grab	GW		6-5-23	1205	3	X	X	X	X													
DUPLICATE RP-2			GW		1	1201																		
MW-101S			GW		6-8-23	1411																		
MW-102S			GW		6-8-23	1547																		
MW-103S			GW		6-7-23	1144																		
MW-104S			GW			1450																		
MW-105S			GW			1552																		
MW-106S			GW			915																		
MW-110S			GW			1342																		
MW-111S			GW			1044																		

* 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 ☐ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

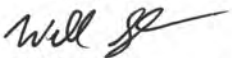
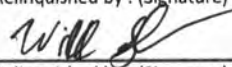
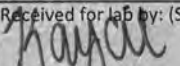
If Applicable

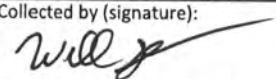
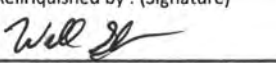
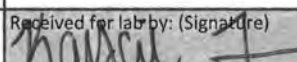
VOA Zero Headspace: ☐ Y ☐ N

Preservation Correct/Checked: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature) 		Date: 6-9-23	Time: 1100	Received by: (Signature)		Trip Blank Received: Yes ☒ No ☐ HCL / MeOH TBR	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C	Bottles Received: 117
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) 		Date: 6/10/23	Time: 900
				Hold:		Condition: NCF / SK	

Company Name/Address: GBMc & Associates - Bryant, AR				Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022				Analysis / Container / Preservative				Chain of Custody Page <u> </u> of <u> </u>		
219 Brown Lane Little Rock, AR 72022				Pres Chk <u>42</u>								 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: Will Glenn				Email To: Will.Glenn@AllianceTG.com; Jonathan.Brown@										
Project Description: Entergy - White Bluff			City/State Collected:		Please Circle: PT MT CT ET									
Phone: 501-847-7077		Client Project # 1145-21-080		Lab Project # GBMCBAR-ENTERGYWB										
Collected by (print): Will Glenn		Site/Facility ID # WHITE BLUFF		P.O. #						SDG # <u>L1624861</u>				
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #						Table #				
Immediately Packed on Ice N <u> </u> Y <u>X</u>				Date Results Needed						Acctnum: GBMCBAR				
										Template: T231252				
										Prelogin: P1003296				
										PM: 829 - Brittne L Boyd				
										PB: <u>BW 5/31</u>				
										Shipped Via: FedEX Ground				
										Remarks		Sample # (lab only)		
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs							
MW-101D		<u>Grab</u>	GW		<u>6-8-23</u>	<u>1843</u>	<u>3</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>1.55</u>	<u>-21</u>
MW-102D			GW		<u>1</u>	<u>1736</u>							<u>3.68</u>	<u>-22</u>
MW-103D			GW		<u>6-7-23</u>	<u>1811</u>							<u>5.13</u>	<u>-23</u>
MW-104D			GW		<u>1</u>	<u>1605</u>							<u>6.19</u>	<u>-24</u>
MW-105D			GW		<u>6-6-23</u>	<u>1230</u>							<u>5.11</u>	<u>-25</u>
MW-106D			GW		<u>6-7-23</u>	<u>1020</u>							<u>6.75</u>	<u>-26</u>
MW-107D			GW		<u>6-6-23</u>	<u>1020</u>							<u>1.75</u>	<u>-27</u>
MW-108D			GW		<u>6-7-23</u>	<u>1345</u>							<u>5.01</u>	<u>-28</u>
MW-109D			GW		<u>6-8-23</u>	<u>1630</u>							<u>3.84</u>	<u>-29</u>
MW-110D			GW		<u>6-6-23</u>	<u>1550</u>							<u>6.92</u>	<u>-30</u>
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks:				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist COC Seal Present/Intact: <u>NP</u> Y <u> </u> N COC Signed/Accurate: <u> </u> Y <u> </u> N Bottles arrive intact: <u> </u> Y <u> </u> N Correct bottles used: <u> </u> Y <u> </u> N Sufficient volume sent: <u> </u> Y <u> </u> N If Applicable VOA Zero Headspace: <u> </u> Y <u> </u> N Preservation Correct/Checked: <u> </u> Y <u> </u> N RAD Screen <0.5 mR/hr: <u> </u> Y <u> </u> N				
Samples returned via: <u> </u> UPS <u>X</u> FedEx <u> </u> Courier _____		Tracking #												
Relinquished by: (Signature) 		Date: <u>6-9-23</u>	Time: <u>1100</u>	Received by: (Signature)		Trip Blank Received: Yes <u>No</u> HCL / MeOH TBR		Bottles Received: <u>117</u>				If preservation required by Login: Date/Time		
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: _____ °C								
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) 		Date: <u>6/10/23</u> Time: <u>900</u>		Hold:				Condition: <u>NCF / OK</u>		

Company Name/Address: GBMc & Associates - Bryant, AR 219 Brown Lane Little Rock, AR 72022				Billing Information: Accounts Payable 219 Brown Ln. Bryant, AR 72022				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page ____ of ____			
Report to: Will Glenn				Email To: Will.Glenn@AllianceTG.com;Jonathan.Brown@																 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			
Project Description: Entergy - White Bluff				City/State Collected:				Please Circle: PT MT CT ET															
Phone: 501-847-7077				Client Project # 1145-21-080				Lab Project # GBMCBAR-ENTERGYWB												SDG # L1624861			
Collected by (print): Will Glenn				Site/Facility ID # WHITE BLUFF				P.O. #												Table #			
Collected by (signature): 				Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day				Quote #												Acctnum: GBMCBAR Template: T231252			
Immediately Packed on Ice N ____ Y X				Date Results Needed				No. of Cntrs												Prelogin: P1003296 PM: 829 - Brittanie L Boyd PB: BW 5/31			
Sample ID				Comp/Grab		Matrix *		Depth		Date		Time						Shipped Via: FedEX Ground		Remarks		Sample # (lab only)	
MW-111D				Grab		GW																	
MW-112D						GW		6-6-23		6-6-23		1730		3		X		X		X		X	
MW-113D						GW				6-8-23		915											
MW-114D						GW						1255											
MW-115D						GW						1140											
MW-118D						GW				6-6-23		1410											
FIELD BLANK 1						GW				6-7-23		925											
DUPLICATE 1 MW-1065						GW						916											
DUPLICATE 2 MW-112D						GW				6-6-23		1731											
DUPLICATE 2 MW-110D						GW						1550											
* 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: ☒ 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			
Relinquished by: (Signature) 				Date: 6-9-23		Time: 1100		Received by: (Signature)				Trip Blank Received: Yes ☒ No HCL / MeOH TBR				Temp: _____ °C Bottles Received: 117				If preservation required by Login: Date/Time			
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Temp: _____ °C Bottles Received: 117				If preservation required by Login: Date/Time							
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) 				Date: 6/10/23 Time: 900				Hold: _____ Condition: NCF / OK							

L1624861

Tracking Numbers		Temperature
6337 2251 9699		NSA7 5.9+0=5.9
6524 5564 0140		NSA7 0.4+0=0.4
6337 2251 9714		NSA7 5.6+0=5.6
6524 5564 0129		NSA7 4.9+0=4.9
6524 5564 0118		NSA7 4.6+0=4.6
6524 5564 0107		NSA7 4.7+0=4.7
6524 5564 0151		NSA7 5.1+0=5.1
6337 2251 9703		NSA7 5.2+0=5.2

Alliance Technical Group - Bryant, AR

Sample Delivery Group: L1679741
Samples Received: 11/18/2023
Project Number: 1145-21-080
Description: Entergy - White Bluff

Report To: Jonathan Brown
219 Brown Lane
Little Rock, AR 72022

Entire Report Reviewed By:



Brittanie L Boyd
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

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
RP-1 L1679741-01	7
RP-2 L1679741-02	9
RP-3 L1679741-03	11
RP-4 L1679741-04	13
RP-5 L1679741-05	15
RP-6 L1679741-06	17
RP-7 L1679741-07	19
RP-8 L1679741-08	21
RP-9 L1679741-09	23
RP-10 L1679741-10	25
DUPLICATE L1679741-11	27
Qc: Quality Control Summary	29
Gravimetric Analysis by Method 2540 C-2011	29
Wet Chemistry by Method 2320 B-2011	32
Wet Chemistry by Method 9040C	37
Wet Chemistry by Method 9056A	39
Mercury by Method 7470A	41
Metals (ICP) by Method 6010B	42
Metals (ICPMS) by Method 6020	43
Gl: Glossary of Terms	45
Al: Accreditations & Locations	46
Sc: Sample Chain of Custody	47

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

SAMPLE SUMMARY

RP-1 L1679741-01 GW

Collected by
Collected date/time
Received date/time

11/13/23 11:30
11/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2174586	1	11/20/23 18:17	11/21/23 00:46	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176790	1	11/23/23 13:06	11/23/23 13:06	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177543	1	11/28/23 09:45	11/28/23 09:45	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	10	12/02/23 04:30	12/02/23 04:30	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:12	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:25	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 16:28	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	10	11/28/23 13:38	12/01/23 10:32	JPD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

RP-2 L1679741-02 GW

Collected by
Collected date/time
Received date/time

11/13/23 12:15
11/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175277	1	11/21/23 10:51	11/21/23 16:36	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176845	1	11/27/23 13:34	11/27/23 13:34	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177543	1	11/28/23 09:45	11/28/23 09:45	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	1	12/02/23 04:55	12/02/23 04:55	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:15	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:28	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 16:44	JPD	Mt. Juliet, TN

⁶Qc

⁷Gl

⁸Al

⁹Sc

RP-3 L1679741-03 GW

Collected by
Collected date/time
Received date/time

11/13/23 13:20
11/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175271	1	11/21/23 14:08	11/21/23 22:31	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176470	1	11/23/23 11:43	11/23/23 11:43	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177543	1	11/28/23 09:45	11/28/23 09:45	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	20	12/02/23 05:33	12/02/23 05:33	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	5	12/02/23 05:20	12/02/23 05:20	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:17	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:32	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 16:47	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	10	11/28/23 13:38	12/01/23 10:48	JPD	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

11/13/23 14:25
11/18/23 09:00

RP-4 L1679741-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175271	1	11/21/23 14:08	11/21/23 22:31	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176789	1	11/27/23 13:28	11/27/23 13:28	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177543	1	11/28/23 09:45	11/28/23 09:45	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	1	12/02/23 06:11	12/02/23 06:11	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:19	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:34	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 16:50	JPD	Mt. Juliet, TN

ACCOUNT:

Alliance Technical Group - Bryant, AR

PROJECT:

1145-21-080

SDG:

L1679741

DATE/TIME:

12/04/23 13:11

PAGE:

3 of 48

SAMPLE SUMMARY

RP-5 L1679741-05 GW

				Collected by	Collected date/time	Received date/time
					11/13/23 12:20	11/18/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175271	1	11/21/23 14:08	11/21/23 22:31	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176790	1	11/23/23 13:35	11/23/23 13:35	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177546	1	11/27/23 14:49	11/27/23 14:49	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	1	12/02/23 06:37	12/02/23 06:37	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	10	12/02/23 06:50	12/02/23 06:50	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:26	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:43	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 17:00	JPD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

RP-6 L1679741-06 GW

				Collected by	Collected date/time	Received date/time
					11/13/23 11:35	11/18/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175277	1	11/21/23 10:51	11/21/23 16:36	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176478	1	11/23/23 10:28	11/23/23 10:28	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177546	1	11/27/23 14:49	11/27/23 14:49	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	20	12/02/23 07:15	12/02/23 07:15	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	5	12/02/23 07:02	12/02/23 07:02	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:28	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:46	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 17:03	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	10	11/28/23 13:38	12/01/23 10:52	JPD	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

RP-7 L1679741-07 GW

				Collected by	Collected date/time	Received date/time
					11/13/23 10:40	11/18/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175271	1	11/21/23 14:08	11/21/23 22:31	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176478	1	11/23/23 10:50	11/23/23 10:50	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177546	1	11/27/23 14:49	11/27/23 14:49	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	1	12/02/23 07:28	12/02/23 07:28	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:31	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:49	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 17:06	JPD	Mt. Juliet, TN

RP-8 L1679741-08 GW

				Collected by	Collected date/time	Received date/time
					11/13/23 09:45	11/18/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175277	1	11/21/23 10:51	11/21/23 16:36	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176478	1	11/23/23 10:58	11/23/23 10:58	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177546	1	11/27/23 14:49	11/27/23 14:49	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	1	12/02/23 07:53	12/02/23 07:53	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:33	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:52	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 17:10	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	10	11/28/23 13:38	12/01/23 10:55	JPD	Mt. Juliet, TN

ACCOUNT:

Alliance Technical Group - Bryant, AR

PROJECT:

1145-21-080

SDG:

L1679741

DATE/TIME:

12/04/23 13:11

PAGE:

4 of 48

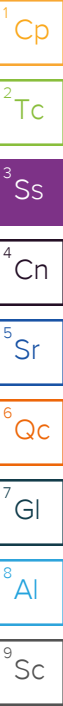
SAMPLE SUMMARY

RP-9 L1679741-09 GW

Collected by
Collected date/time
Received date/time

11/13/23 15:15 11/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175277	1	11/21/23 10:51	11/21/23 16:36	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176478	1	11/23/23 11:01	11/23/23 11:01	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177546	1	11/27/23 14:49	11/27/23 14:49	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	1	12/02/23 08:44	12/02/23 08:44	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:35	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:55	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 17:13	JPD	Mt. Juliet, TN



RP-10 L1679741-10 GW

Collected by
Collected date/time
Received date/time

11/13/23 16:20 11/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175277	1	11/21/23 10:51	11/21/23 16:36	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176478	1	11/23/23 11:04	11/23/23 11:04	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177546	1	11/27/23 14:49	11/27/23 14:49	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	1	12/02/23 09:22	12/02/23 09:22	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	10	12/02/23 09:35	12/02/23 09:35	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:38	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 17:58	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 17:16	JPD	Mt. Juliet, TN

DUPLICATE L1679741-11 GW

Collected by
Collected date/time
Received date/time

11/13/23 12:20 11/18/23 09:00

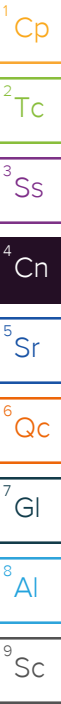
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2175271	1	11/21/23 14:08	11/21/23 22:31	DLS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2176845	1	11/27/23 13:39	11/27/23 13:39	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2177546	1	11/27/23 14:49	11/27/23 14:49	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	1	12/02/23 09:48	12/02/23 09:48	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2180051	10	12/02/23 10:01	12/02/23 10:01	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2174140	1	11/26/23 18:10	11/28/23 11:40	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2174871	1	11/29/23 14:03	11/29/23 18:00	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2174903	1	11/28/23 13:38	11/30/23 17:19	JPD	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. 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.



Brittanie L Boyd
Project Manager



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	3510		50.0	1	11/21/2023 00:46	WG2174586

1 Cp

2 Tc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	11/23/2023 13:06	WG2176790

3 Ss

4 Cn

Sample Narrative:

L1679741-01 WG2176790: Endpoint pH 4.5 Headspace

5 Sr

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
pH	3.54	T8	1	11/28/2023 09:45	WG2177543	

6 Qc

7 Gl

Sample Narrative:

L1679741-01 WG2177543: 3.54 at 18.8C

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	531		10.0	10	12/02/2023 04:30	WG2180051
Fluoride	ND		1.50	10	12/02/2023 04:30	WG2180051
Sulfate	1760		50.0	10	12/02/2023 04:30	WG2180051

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	0.000328		0.000200	1	11/28/2023 11:12	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2023 17:25	WG2174871
Lithium	0.370		0.0150	1	11/29/2023 17:25	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 16:28	WG2174903
Arsenic	ND	O1	0.0200	10	12/01/2023 10:32	WG2174903
Barium	0.0184		0.00200	1	11/30/2023 16:28	WG2174903
Beryllium	0.0166		0.00200	1	11/30/2023 16:28	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 16:28	WG2174903
Calcium	319	O1	1.00	1	11/30/2023 16:28	WG2174903
Chromium	ND		0.0200	10	12/01/2023 10:32	WG2174903
Cobalt	0.145		0.0200	10	12/01/2023 10:32	WG2174903
Lead	ND		0.00200	1	11/30/2023 16:28	WG2174903
Magnesium	165	O1 V	1.00	1	11/30/2023 16:28	WG2174903
Molybdenum	ND		0.00500	1	11/30/2023 16:28	WG2174903
Selenium	0.00553		0.00200	1	11/30/2023 16:28	WG2174903
Sodium	411	O1 V	2.00	1	11/30/2023 16:28	WG2174903
Strontium	6.40		0.100	10	12/01/2023 10:32	WG2174903

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 16:28	WG2174903

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	295	T8	10.0	1	11/21/2023 16:36	WG2175277

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	11/27/2023 13:34	WG2176845

Sample Narrative:

L1679741-02 WG2176845: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	3.77	T8	1	11/28/2023 09:45	WG2177543

Sample Narrative:

L1679741-02 WG2177543: 3.77 at 18.8C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	18.3		1.00	1	12/02/2023 04:55	WG2180051
Fluoride	ND		0.150	1	12/02/2023 04:55	WG2180051
Sulfate	95.1		5.00	1	12/02/2023 04:55	WG2180051

Mercury by Method 7470A

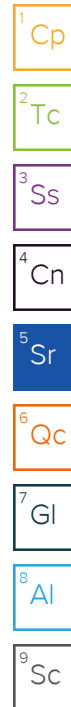
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:15	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2023 17:28	WG2174871
Lithium	0.0884		0.0150	1	11/29/2023 17:28	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 16:44	WG2174903
Arsenic	ND		0.00200	1	11/30/2023 16:44	WG2174903
Barium	0.0325		0.00200	1	11/30/2023 16:44	WG2174903
Beryllium	ND		0.00200	1	11/30/2023 16:44	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 16:44	WG2174903
Calcium	14.8		1.00	1	11/30/2023 16:44	WG2174903
Chromium	ND		0.00200	1	11/30/2023 16:44	WG2174903
Cobalt	0.00647		0.00200	1	11/30/2023 16:44	WG2174903
Lead	ND		0.00200	1	11/30/2023 16:44	WG2174903
Magnesium	5.78		1.00	1	11/30/2023 16:44	WG2174903
Molybdenum	ND		0.00500	1	11/30/2023 16:44	WG2174903
Selenium	ND		0.00200	1	11/30/2023 16:44	WG2174903
Sodium	24.6		2.00	1	11/30/2023 16:44	WG2174903
Strontium	0.370		0.0100	1	11/30/2023 16:44	WG2174903



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 16:44	WG2174903

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	2110	T8	50.0	1	11/21/2023 22:31	WG2175271

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	11/23/2023 11:43	WG2176470

Sample Narrative:

L1679741-03 WG2176470: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	3.53	T8	1	11/28/2023 09:45	WG2177543

Sample Narrative:

L1679741-03 WG2177543: 3.53 at 18.8C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	173		5.00	5	12/02/2023 05:20	WG2180051
Fluoride	0.998		0.750	5	12/02/2023 05:20	WG2180051
Sulfate	1060		100	20	12/02/2023 05:33	WG2180051

Mercury by Method 7470A

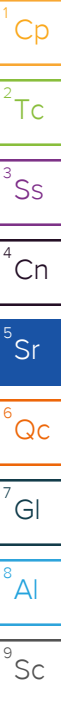
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:17	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2023 17:32	WG2174871
Lithium	0.397		0.0150	1	11/29/2023 17:32	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 16:47	WG2174903
Arsenic	0.00270		0.00200	1	11/30/2023 16:47	WG2174903
Barium	0.0134		0.00200	1	11/30/2023 16:47	WG2174903
Beryllium	0.0133		0.00200	1	11/30/2023 16:47	WG2174903
Cadmium	0.00307		0.00100	1	11/30/2023 16:47	WG2174903
Calcium	208		1.00	1	11/30/2023 16:47	WG2174903
Chromium	ND		0.00200	1	11/30/2023 16:47	WG2174903
Cobalt	0.0634		0.00200	1	11/30/2023 16:47	WG2174903
Lead	0.00217		0.00200	1	11/30/2023 16:47	WG2174903
Magnesium	96.5		1.00	1	11/30/2023 16:47	WG2174903
Molybdenum	ND		0.00500	1	11/30/2023 16:47	WG2174903
Selenium	ND		0.00200	1	11/30/2023 16:47	WG2174903
Sodium	198		2.00	1	11/30/2023 16:47	WG2174903
Strontium	4.29		0.100	10	12/01/2023 10:48	WG2174903



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 16:47	WG2174903

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	447	T8	10.0	1	11/21/2023 22:31	WG2175271

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	177		20.0	1	11/27/2023 13:28	WG2176789

Sample Narrative:

L1679741-04 WG2176789: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	6.36	T8	1	11/28/2023 09:45	WG2177543

Sample Narrative:

L1679741-04 WG2177543: 6.36 at 19C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	29.3		1.00	1	12/02/2023 06:11	WG2180051
Fluoride	0.344		0.150	1	12/02/2023 06:11	WG2180051
Sulfate	108		5.00	1	12/02/2023 06:11	WG2180051

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:19	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.258		0.200	1	11/29/2023 17:34	WG2174871
Lithium	ND		0.0150	1	11/29/2023 17:34	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 16:50	WG2174903
Arsenic	0.00214		0.00200	1	11/30/2023 16:50	WG2174903
Barium	0.117		0.00200	1	11/30/2023 16:50	WG2174903
Beryllium	ND		0.00200	1	11/30/2023 16:50	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 16:50	WG2174903
Calcium	61.2		1.00	1	11/30/2023 16:50	WG2174903
Chromium	ND		0.00200	1	11/30/2023 16:50	WG2174903
Cobalt	0.00515		0.00200	1	11/30/2023 16:50	WG2174903
Lead	ND		0.00200	1	11/30/2023 16:50	WG2174903
Magnesium	13.8		1.00	1	11/30/2023 16:50	WG2174903
Molybdenum	0.0222		0.00500	1	11/30/2023 16:50	WG2174903
Selenium	ND		0.00200	1	11/30/2023 16:50	WG2174903
Sodium	49.9		2.00	1	11/30/2023 16:50	WG2174903
Strontium	0.719		0.0100	1	11/30/2023 16:50	WG2174903

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 16:50	WG2174903

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	501	T8	10.0	1	11/21/2023 22:31	WG2175271

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	11/23/2023 13:35	WG2176790

Sample Narrative:

L1679741-05 WG2176790: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	3.95	T8	1	11/27/2023 14:49	WG2177546

Sample Narrative:

L1679741-05 WG2177546: 3.95 at 19.6C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	39.8		1.00	1	12/02/2023 06:37	WG2180051
Fluoride	0.308		0.150	1	12/02/2023 06:37	WG2180051
Sulfate	195		50.0	10	12/02/2023 06:50	WG2180051

Mercury by Method 7470A

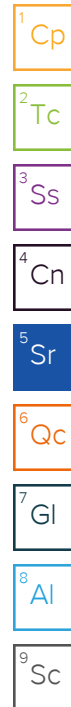
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:26	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2023 17:43	WG2174871
Lithium	0.162		0.0150	1	11/29/2023 17:43	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 17:00	WG2174903
Arsenic	ND		0.00200	1	11/30/2023 17:00	WG2174903
Barium	0.0208		0.00200	1	11/30/2023 17:00	WG2174903
Beryllium	0.00427		0.00200	1	11/30/2023 17:00	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 17:00	WG2174903
Calcium	43.5		1.00	1	11/30/2023 17:00	WG2174903
Chromium	ND		0.00200	1	11/30/2023 17:00	WG2174903
Cobalt	0.0426		0.00200	1	11/30/2023 17:00	WG2174903
Lead	ND		0.00200	1	11/30/2023 17:00	WG2174903
Magnesium	19.9		1.00	1	11/30/2023 17:00	WG2174903
Molybdenum	ND		0.00500	1	11/30/2023 17:00	WG2174903
Selenium	ND		0.00200	1	11/30/2023 17:00	WG2174903
Sodium	38.9		2.00	1	11/30/2023 17:00	WG2174903
Strontium	0.802		0.0100	1	11/30/2023 17:00	WG2174903



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 17:00	WG2174903

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1880	T8	25.0	1	11/21/2023 16:36	WG2175277

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	11/23/2023 10:28	WG2176478

Sample Narrative:

L1679741-06 WG2176478: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	4.32	T8	1	11/27/2023 14:49	WG2177546

Sample Narrative:

L1679741-06 WG2177546: 4.32 at 19.3C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	28.7		5.00	5	12/02/2023 07:02	WG2180051
Fluoride	0.843		0.750	5	12/02/2023 07:02	WG2180051
Sulfate	1090		100	20	12/02/2023 07:15	WG2180051

Mercury by Method 7470A

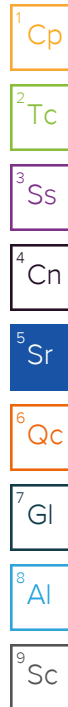
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:28	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.579		0.200	1	11/29/2023 17:46	WG2174871
Lithium	0.794		0.0150	1	11/29/2023 17:46	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 17:03	WG2174903
Arsenic	ND		0.00200	1	11/30/2023 17:03	WG2174903
Barium	0.0401		0.00200	1	11/30/2023 17:03	WG2174903
Beryllium	0.0134		0.00200	1	11/30/2023 17:03	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 17:03	WG2174903
Calcium	262		1.00	1	11/30/2023 17:03	WG2174903
Chromium	ND		0.00200	1	11/30/2023 17:03	WG2174903
Cobalt	0.0319		0.00200	1	11/30/2023 17:03	WG2174903
Lead	ND		0.00200	1	11/30/2023 17:03	WG2174903
Magnesium	90.2		1.00	1	11/30/2023 17:03	WG2174903
Molybdenum	ND		0.00500	1	11/30/2023 17:03	WG2174903
Selenium	ND		0.00200	1	11/30/2023 17:03	WG2174903
Sodium	95.0		2.00	1	11/30/2023 17:03	WG2174903
Strontium	6.16		0.100	10	12/01/2023 10:52	WG2174903



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 17:03	WG2174903

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	407	T8	10.0	1	11/21/2023 22:31	WG2175271

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	11/23/2023 10:50	WG2176478

Sample Narrative:

L1679741-07 WG2176478: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
pH	3.82	T8	1	11/27/2023 14:49	WG2177546	

Sample Narrative:

L1679741-07 WG2177546: 3.82 at 19.3C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	4.78	B	1.00	1	12/02/2023 07:28	WG2180051
Fluoride	0.352		0.150	1	12/02/2023 07:28	WG2180051
Sulfate	173		5.00	1	12/02/2023 07:28	WG2180051

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:31	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2023 17:49	WG2174871
Lithium	0.259		0.0150	1	11/29/2023 17:49	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 17:06	WG2174903
Arsenic	ND		0.00200	1	11/30/2023 17:06	WG2174903
Barium	0.0243		0.00200	1	11/30/2023 17:06	WG2174903
Beryllium	0.00992		0.00200	1	11/30/2023 17:06	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 17:06	WG2174903
Calcium	30.2		1.00	1	11/30/2023 17:06	WG2174903
Chromium	ND		0.00200	1	11/30/2023 17:06	WG2174903
Cobalt	0.0117		0.00200	1	11/30/2023 17:06	WG2174903
Lead	ND		0.00200	1	11/30/2023 17:06	WG2174903
Magnesium	10.8		1.00	1	11/30/2023 17:06	WG2174903
Molybdenum	ND		0.00500	1	11/30/2023 17:06	WG2174903
Selenium	ND		0.00200	1	11/30/2023 17:06	WG2174903
Sodium	20.9		2.00	1	11/30/2023 17:06	WG2174903
Strontium	0.702		0.0100	1	11/30/2023 17:06	WG2174903

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 17:06	WG2174903

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	331	T8	10.0	1	11/21/2023 16:36	WG2175277

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	21.8		20.0	1	11/23/2023 10:58	WG2176478

Sample Narrative:

L1679741-08 WG2176478: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	6.00	T8	1	11/27/2023 14:49	WG2177546

Sample Narrative:

L1679741-08 WG2177546: 6 at 19.3C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	22.0		1.00	1	12/02/2023 07:53	WG2180051
Fluoride	0.214		0.150	1	12/02/2023 07:53	WG2180051
Sulfate	154		5.00	1	12/02/2023 07:53	WG2180051

Mercury by Method 7470A

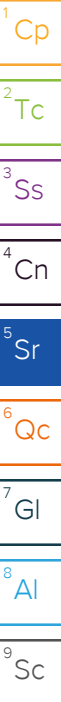
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:33	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2023 17:52	WG2174871
Lithium	0.0916		0.0150	1	11/29/2023 17:52	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 17:10	WG2174903
Arsenic	ND		0.00200	1	11/30/2023 17:10	WG2174903
Barium	0.0494		0.00200	1	11/30/2023 17:10	WG2174903
Beryllium	ND		0.00200	1	11/30/2023 17:10	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 17:10	WG2174903
Calcium	40.2		1.00	1	11/30/2023 17:10	WG2174903
Chromium	ND		0.00200	1	11/30/2023 17:10	WG2174903
Cobalt	0.0233		0.00200	1	11/30/2023 17:10	WG2174903
Lead	ND		0.00200	1	11/30/2023 17:10	WG2174903
Magnesium	9.41		1.00	1	11/30/2023 17:10	WG2174903
Molybdenum	ND		0.00500	1	11/30/2023 17:10	WG2174903
Selenium	ND		0.00200	1	11/30/2023 17:10	WG2174903
Sodium	35.1		2.00	1	11/30/2023 17:10	WG2174903
Strontium	1.13		0.100	10	12/01/2023 10:55	WG2174903



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 17:10	WG2174903

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	127	T8	10.0	1	11/21/2023 16:36	WG2175277

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	11/23/2023 11:01	WG2176478

Sample Narrative:

L1679741-09 WG2176478: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	6.70	T8	1	11/27/2023 14:49	WG2177546

Sample Narrative:

L1679741-09 WG2177546: 6.7 at 19.3C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	3.31	B	1.00	1	12/02/2023 08:44	WG2180051
Fluoride	ND	P1	0.150	1	12/02/2023 08:44	WG2180051
Sulfate	18.8		5.00	1	12/02/2023 08:44	WG2180051

Mercury by Method 7470A

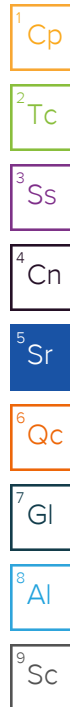
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:35	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2023 17:55	WG2174871
Lithium	ND		0.0150	1	11/29/2023 17:55	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 17:13	WG2174903
Arsenic	ND		0.00200	1	11/30/2023 17:13	WG2174903
Barium	0.0866		0.00200	1	11/30/2023 17:13	WG2174903
Beryllium	ND		0.00200	1	11/30/2023 17:13	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 17:13	WG2174903
Calcium	10.9		1.00	1	11/30/2023 17:13	WG2174903
Chromium	0.00200		0.00200	1	11/30/2023 17:13	WG2174903
Cobalt	ND		0.00200	1	11/30/2023 17:13	WG2174903
Lead	ND		0.00200	1	11/30/2023 17:13	WG2174903
Magnesium	1.88		1.00	1	11/30/2023 17:13	WG2174903
Molybdenum	0.00623		0.00500	1	11/30/2023 17:13	WG2174903
Selenium	ND		0.00200	1	11/30/2023 17:13	WG2174903
Sodium	8.54		2.00	1	11/30/2023 17:13	WG2174903
Strontium	0.0934		0.0100	1	11/30/2023 17:13	WG2174903



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 17:13	WG2174903

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	496	T8	10.0	1	11/21/2023 16:36	WG2175277

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	11/23/2023 11:04	WG2176478

Sample Narrative:

L1679741-10 WG2176478: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	3.95	T8	1	11/27/2023 14:49	WG2177546

Sample Narrative:

L1679741-10 WG2177546: 3.95 at 19.3C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	59.3		1.00	1	12/02/2023 09:22	WG2180051
Fluoride	0.467		0.150	1	12/02/2023 09:22	WG2180051
Sulfate	357		50.0	10	12/02/2023 09:35	WG2180051

Mercury by Method 7470A

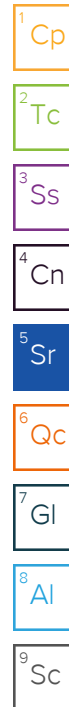
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:38	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.390		0.200	1	11/29/2023 17:58	WG2174871
Lithium	0.0436		0.0150	1	11/29/2023 17:58	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 17:16	WG2174903
Arsenic	0.00205		0.00200	1	11/30/2023 17:16	WG2174903
Barium	0.0225		0.00200	1	11/30/2023 17:16	WG2174903
Beryllium	0.00625		0.00200	1	11/30/2023 17:16	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 17:16	WG2174903
Calcium	18.7		1.00	1	11/30/2023 17:16	WG2174903
Chromium	ND		0.00200	1	11/30/2023 17:16	WG2174903
Cobalt	0.0270		0.00200	1	11/30/2023 17:16	WG2174903
Lead	ND		0.00200	1	11/30/2023 17:16	WG2174903
Magnesium	21.2		1.00	1	11/30/2023 17:16	WG2174903
Molybdenum	ND		0.00500	1	11/30/2023 17:16	WG2174903
Selenium	ND		0.00200	1	11/30/2023 17:16	WG2174903
Sodium	61.5		2.00	1	11/30/2023 17:16	WG2174903
Strontium	0.555		0.0100	1	11/30/2023 17:16	WG2174903



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 17:16	WG2174903

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

DUPLICATE

Collected date/time: 11/13/23 12:20

SAMPLE RESULTS - 11

L1679741

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	510	T8	10.0	1	11/21/2023 22:31	WG2175271

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	11/27/2023 13:39	WG2176845

Sample Narrative:

L1679741-11 WG2176845: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	4.02	T8	1	11/27/2023 14:49	WG2177546

Sample Narrative:

L1679741-11 WG2177546: 4.02 at 19.5C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	39.8		1.00	1	12/02/2023 09:48	WG2180051
Fluoride	0.313		0.150	1	12/02/2023 09:48	WG2180051
Sulfate	188		50.0	10	12/02/2023 10:01	WG2180051

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/28/2023 11:40	WG2174140

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2023 18:00	WG2174871
Lithium	0.164		0.0150	1	11/29/2023 18:00	WG2174871

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	11/30/2023 17:19	WG2174903
Arsenic	ND		0.00200	1	11/30/2023 17:19	WG2174903
Barium	0.0213		0.00200	1	11/30/2023 17:19	WG2174903
Beryllium	0.00428		0.00200	1	11/30/2023 17:19	WG2174903
Cadmium	ND		0.00100	1	11/30/2023 17:19	WG2174903
Calcium	44.1		1.00	1	11/30/2023 17:19	WG2174903
Chromium	ND		0.00200	1	11/30/2023 17:19	WG2174903
Cobalt	0.0440		0.00200	1	11/30/2023 17:19	WG2174903
Lead	ND		0.00200	1	11/30/2023 17:19	WG2174903
Magnesium	20.6		1.00	1	11/30/2023 17:19	WG2174903
Molybdenum	ND		0.00500	1	11/30/2023 17:19	WG2174903
Selenium	ND		0.00200	1	11/30/2023 17:19	WG2174903
Sodium	38.7		2.00	1	11/30/2023 17:19	WG2174903
Strontium	0.816		0.0100	1	11/30/2023 17:19	WG2174903

ACCOUNT:

Alliance Technical Group - Bryant, AR

PROJECT:

1145-21-080

SDG:

L1679741

DATE/TIME:

12/04/23 13:11

PAGE:

27 of 48

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	ND		0.00200	1	11/30/2023 17:19	WG2174903

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4003107-1 11/21/23 00:46

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1678027-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1678027-07 11/21/23 00:46 • (DUP) R4003107-3 11/21/23 00:46

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	2120	2220	1	4.61		5

L1678508-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1678508-02 11/21/23 00:46 • (DUP) R4003107-4 11/21/23 00:46

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1640	1710	1	3.70		5

Laboratory Control Sample (LCS)

(LCS) R4003107-2 11/21/23 00:46

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8320	94.5	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4003924-1 11/21/23 22:31

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1678152-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1678152-01 11/21/23 22:31 • (DUP) R4003924-3 11/21/23 22:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	599	601	1	0.443		5

L1678152-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1678152-02 11/21/23 22:31 • (DUP) R4003924-4 11/21/23 22:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	605	616	1	1.75		5

Laboratory Control Sample (LCS)

(LCS) R4003924-2 11/21/23 22:31

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8180	93.0	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4003913-1 11/21/23 16:36

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1678348-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1678348-05 11/21/23 16:36 • (DUP) R4003913-3 11/21/23 16:36

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	518	537	1	3.60		5

L1678348-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1678348-09 11/21/23 16:36 • (DUP) R4003913-4 11/21/23 16:36

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1620	1700	1	5.12	J3	5

Laboratory Control Sample (LCS)

(LCS) R4003913-2 11/21/23 16:36

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8550	97.2	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4003792-2 11/23/23 09:02

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:
BLANK: Endpoint pH 4.5

L1677421-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1677421-03 11/23/23 09:12 • (DUP) R4003792-3 11/23/23 09:17

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	ND	ND	1	0.000		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1679658-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1679658-01 11/23/23 11:16 • (DUP) R4003792-4 11/23/23 11:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	315	316	1	0.244		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4003792-1 11/23/23 08:55

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Alkalinity	100	104	104	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4003790-2 11/23/23 09:01

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1679725-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1679725-01 11/23/23 09:11 • (DUP) R4003790-4 11/23/23 09:16

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	58.3	57.6	1	1.28		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1679741-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1679741-07 11/23/23 10:50 • (DUP) R4003790-6 11/23/23 10:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4003790-1 11/23/23 08:54

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Alkalinity	100	104	104	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5



Method Blank (MB)

(MB) R4004643-2 11/27/23 11:27

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1679520-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1679520-01 11/27/23 11:36 • (DUP) R4004643-3 11/27/23 11:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	417	423	1	1.47		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1679665-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1679665-01 11/27/23 13:11 • (DUP) R4004643-4 11/27/23 13:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	453	454	1	0.183		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4004643-1 11/27/23 11:21

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Alkalinity	100	104	104	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5



Method Blank (MB)

(MB) R4003791-2 11/23/23 11:32

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1679475-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1679475-03 11/23/23 11:40 • (DUP) R4003791-3 11/23/23 11:45

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	121	122	1	0.773		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1679741-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1679741-05 11/23/23 13:35 • (DUP) R4003791-4 11/23/23 13:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4003791-1 11/23/23 11:25

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Alkalinity	100	103	103	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5



Method Blank (MB)

(MB) R4004737-2 11/27/23 12:43

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:
BLANK: Endpoint pH 4.5

L1679347-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1679347-01 11/27/23 13:10 • (DUP) R4004737-3 11/27/23 13:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	450	455	1	1.10		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1680141-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1680141-06 11/27/23 14:59 • (DUP) R4004737-4 11/27/23 15:05

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	259	262	1	1.21		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4004737-1 11/27/23 12:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Alkalinity	100	98.4	98.4	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1679320-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1679320-01 11/28/23 09:45 • (DUP) R4005014-2 11/28/23 09:45

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.08	7.05	1	0.425		1

Sample Narrative:

OS: 7.08 at 19.8C

DUP: 7.05 at 19.8C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1679741-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1679741-04 11/28/23 09:45 • (DUP) R4005014-3 11/28/23 09:45

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	6.36	6.38	1	0.314		1

Sample Narrative:

OS: 6.36 at 19C

DUP: 6.38 at 19C

Laboratory Control Sample (LCS)

(LCS) R4005014-1 11/28/23 09:45

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.02 at 20.6C

L1679741-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1679741-05 11/27/23 14:49 • (DUP) R4004680-2 11/27/23 14:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	3.95	3.92	1	0.762		1

Sample Narrative:
OS: 3.95 at 19.6C
DUP: 3.92 at 19.4C

L1680471-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1680471-05 11/27/23 14:49 • (DUP) R4004680-3 11/27/23 14:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.18	7.20	1	0.278		1

Sample Narrative:
OS: 7.18 at 19.2C
DUP: 7.2 at 19.2C

Laboratory Control Sample (LCS)

(LCS) R4004680-1 11/27/23 14:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:
LCS: 10.02 at 20C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4007447-1 12/02/23 01:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.560	⌵	0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1679725-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1679725-12 12/02/23 01:31 • (DUP) R4007447-3 12/02/23 01:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6.23	6.34	1	1.68		15
Fluoride	ND	ND	1	0.000		15
Sulfate	38.8	38.5	1	0.708		15

L1679741-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1679741-09 12/02/23 08:44 • (DUP) R4007447-6 12/02/23 08:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.31	3.13	1	5.60		15
Fluoride	ND	ND	1	30.1	P1	15
Sulfate	18.8	18.7	1	0.213		15

Laboratory Control Sample (LCS)

(LCS) R4007447-2 12/02/23 01:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.3	101	80.0-120	
Fluoride	8.00	8.37	105	80.0-120	
Sulfate	40.0	39.9	99.7	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1679725-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1679725-12 12/02/23 01:31 • (MS) R4007447-4 12/02/23 01:57 • (MSD) R4007447-5 12/02/23 02:09

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 %
Chloride	40.0	6.23	46.4	46.5	100	101	1	80.0-120			0.365	15
Fluoride	8.00	ND	8.41	8.51	105	106	1	80.0-120			1.19	15
Sulfate	40.0	38.8	72.8	69.5	85.0	76.7	1	80.0-120		J6	4.67	15

L1679741-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1679741-09 12/02/23 08:44 • (MS) R4007447-7 12/02/23 09:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	3.31	43.0	99.4	1	80.0-120	
Fluoride	8.00	ND	8.45	105	1	80.0-120	
Sulfate	40.0	18.8	56.2	93.5	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4005090-1 11/28/23 10:47

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R4005090-2 11/28/23 10:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Mercury	0.00300	0.00304	101	80.0-120	

L1679689-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1679689-06 11/28/23 10:51 • (MS) R4005090-3 11/28/23 10:58 • (MSD) R4005090-4 11/28/23 11:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	ND	0.00282	0.00291	93.9	97.0	1	75.0-125			3.19	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4006129-1 11/29/23 17:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200
Lithium	U		0.00485	0.0150

Laboratory Control Sample (LCS)

(LCS) R4006129-2 11/29/23 17:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.990	99.0	80.0-120	
Lithium	1.00	1.03	103	80.0-120	

L1680004-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1680004-01 11/29/23 17:14 • (MS) R4006129-4 11/29/23 17:19 • (MSD) R4006129-5 11/29/23 17:22

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 %
Boron	1.00	ND	1.00	1.00	100	100	1	75.0-125			0.0805	20
Lithium	1.00	0.0211	1.05	1.05	102	103	1	75.0-125			0.730	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4006836-1 11/30/23 16:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.00103	0.00400
Arsenic	U		0.000180	0.00200
Barium	0.000459	U	0.000381	0.00200
Beryllium	U		0.000190	0.00200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Lead	U		0.000849	0.00200
Magnesium	U		0.0735	1.00
Molybdenum	U		0.000348	0.00500
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Strontium	U		0.000590	0.0100
Thallium	U		0.000121	0.00200

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Laboratory Control Sample (LCS)

(LCS) R4006836-2 11/30/23 16:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0534	107	80.0-120	
Arsenic	0.0500	0.0517	103	80.0-120	
Barium	0.0500	0.0496	99.2	80.0-120	
Beryllium	0.0500	0.0468	93.7	80.0-120	
Cadmium	0.0500	0.0511	102	80.0-120	
Calcium	5.00	5.02	100	80.0-120	
Chromium	0.0500	0.0515	103	80.0-120	
Cobalt	0.0500	0.0515	103	80.0-120	
Lead	0.0500	0.0494	98.8	80.0-120	
Magnesium	5.00	4.83	96.6	80.0-120	
Molybdenum	0.0500	0.0523	105	80.0-120	
Selenium	0.0500	0.0523	105	80.0-120	
Sodium	5.00	4.95	99.0	80.0-120	
Strontium	0.0500	0.0498	99.7	80.0-120	
Thallium	0.0500	0.0489	97.8	80.0-120	

L1679741-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1679741-01 11/30/23 16:28 • (MS) R4006836-4 11/30/23 16:34 • (MSD) R4006836-5 11/30/23 16:37

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 %
Antimony	0.0500	ND	0.0551	0.0566	110	113	1	75.0-125			2.68	20
Barium	0.0500	0.0184	0.0685	0.0708	100	105	1	75.0-125			3.35	20
Beryllium	0.0500	0.0166	0.0614	0.0622	89.7	91.4	1	75.0-125			1.36	20
Cadmium	0.0500	ND	0.0517	0.0525	102	104	1	75.0-125			1.53	20
Calcium	5.00	319	323	325	75.3	117	1	75.0-125			0.638	20
Lead	0.0500	ND	0.0510	0.0511	100	100	1	75.0-125			0.0861	20
Magnesium	5.00	165	173	174	167	180	1	75.0-125	V	V	0.361	20
Molybdenum	0.0500	ND	0.0537	0.0539	107	108	1	75.0-125			0.244	20
Selenium	0.0500	0.00553	0.0595	0.0609	108	111	1	75.0-125			2.28	20
Sodium	5.00	411	411	422	0.000	219	1	75.0-125	V	V	2.72	20
Thallium	0.0500	ND	0.0502	0.0509	99.3	101	1	75.0-125			1.36	20

L1679741-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1679741-01 12/01/23 10:32 • (MS) R4006908-3 12/01/23 10:42 • (MSD) R4006908-4 12/01/23 10:45

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	0.0500	ND	0.0577	0.0624	93.5	103	10	75.0-125			7.97	20
Chromium	0.0500	ND	0.0486	0.0487	97.1	97.3	10	75.0-125			0.208	20
Cobalt	0.0500	0.145	0.186	0.193	81.7	95.2	10	75.0-125			3.58	20
Strontium	0.0500	6.40	6.33	6.42	0.000	37.4	10	75.0-125	V	V	1.40	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

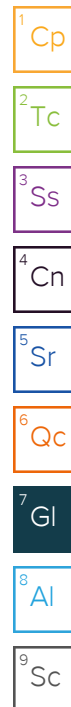
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
U	Not detected at the Reporting Limit (or MDL where applicable).
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

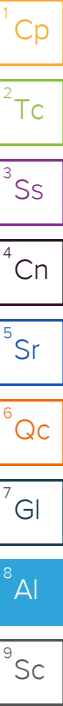
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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:

GBMc & Associates - Bryant, AR

Alliance
219 Brown Lane
Little Rock, AR 72022

Billing Information:

Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 01 of 01

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/pacelabs-terms.pdf>

SNG #

G163

Acctnum: GBMCBAR

Template: T224865

Prelogin: P1032737

PM: 829 - Brittanie L Boyd

PB: 10/25 TS

Shipped Via: FedEx Ground

Sample # (lab only)

Report to:

Jonathan Brown

Email To:

Jonathan.Brown@AllianceTG.com; Jhouse@trcc

Project Description:

Entergy - White Bluff

City/State

Collected:

Please Circle:

PT MT CT ET

Phone: 501-847-7077

Client Project #

1145-21-080

Lab Project #

GBMCBAR-ENTERGYWB

Collected by (print):

JLC/KRS

Site/Facility ID #

P.O. #

Collected by (signature):

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

No.
of
Cntrs

Immediately
Packed on Ice N ___ Y ___

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
RP-1	G	GW		11/13/23	1130	9
RP-2		GW		11/13/23	1215	9
RP-3		GW		11/13/23	1320	9
RP-4		GW		11/13/23	1425	9
RP-5		GW		11/14/23	1220	9
RP-6		GW		11/14/23	1135	9
RP-7		GW		11/14/23	1040	9
RP-8		GW		11/14/23	0945	9
RP-9		GW		11/13/23	1515	9
RP-10		GW		11/13/23	1620	9

* Matrix:

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

Remarks: Metals = As, Ba, Be, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, Ti

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

7123 3304 0290

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)

Date:

11/17/23

Time:

1200

Received by: (Signature)

Trip Blank Received: Yes ☒ No ☐HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp 64.8°C Bottles Received:

3.0+0=3.0 99

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 11-18-23

Time: 900

Hold:
CR6-20221V
PH-10BDH4321 TRC 23E23F7
CR6-20221V

Condition:
NCF / OK

GBMc & Associates - Bryant, AR

Alliance
219 Brown Lane
Little Rock, AR 72022

Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Pres
Chk

LZ

LZ

LZ



MT JULIET, TN

1206S 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>

Report to:

Jonathan Brown

Email To:

Jonathan.Brown@AllianceTG.com; jhouse@trcc

Project Description:

Entergy - White Bluff

City/State

Collected:

Please Circle:

PT MT CT ET

Phone: 501-847-7077

Client Project #

1145-21-080

Lab Project #

GBMCBAR-ENTERGYWB

Collected by (print):

JLC/KRS

Site/Facility ID #

P.O. #

Collected by (signature):

J. H. House

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

No.
of
Cntrs

Immediately

Packed on Ice N ___ Y ___

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DUPLICATE

RPS

G

GW

11/14/23

1220

9

FIELD BLANK

GW

GW

GW

GW

GW

* Matrix:

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

Remarks: Metals = As, Ba, Be, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, Tl

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

7123 3304 0290

Relinquished by: (Signature)

J. H. House

Date:

11/17/23

Time:

1200

Received by: (Signature)

Trip Blank Received: Yes/No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 14.8 °C Bottles Received: 99

3.0+0=3.0

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Ei. House 17

Date:

11-18-23

Time:

900

Hold:

Condition:

NCF / OK

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

If preservation required by Login: Date/Time