ANALYTICAL REPORT

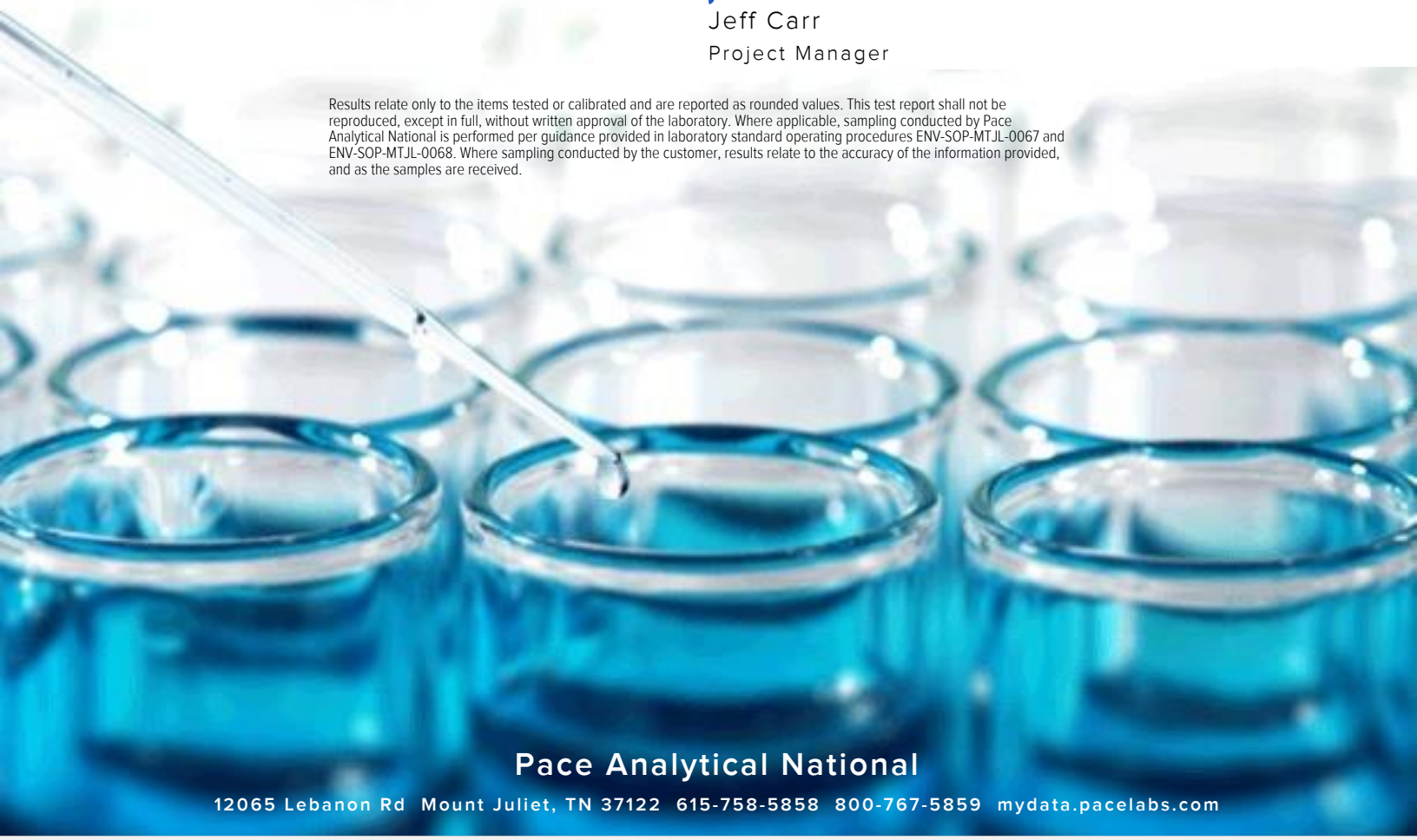
January 27, 2025

ERM - St. Louis, MO

Sample Delivery Group:	L1818476
Samples Received:	01/18/2025
Project Number:	0599247
Description:	Grand Tower Energy Center Groundwater 4Q24 Sampling
Report To:	Randy Homburg
	1968 Craig Road, Suite 100
	Saint Louis, MO 63146

Entire Report Reviewed By:

Jeff Carr
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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APW-03-WG-20250116 L1818476-01 GW

Collected by	Collected date/time	Received date/time
	01/16/25 09:00	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436202	1	01/21/25 08:23	01/21/25 08:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 04:27	01/19/25 04:27	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	10	01/19/25 05:21	01/19/25 05:21	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2435466	1	01/22/25 11:12	01/22/25 17:35	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2435699	1	01/21/25 15:37	01/22/25 13:42	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 12:53	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 12:48	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 19:54	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 21:53	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 13:43	JPD	Mt. Juliet, TN

APW-08-WG-20250115 L1818476-02 GW

Collected by	Collected date/time	Received date/time
	01/15/25 15:40	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436202	1	01/21/25 08:23	01/21/25 08:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 05:48	01/19/25 05:48	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2435466	1	01/22/25 11:12	01/22/25 17:38	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2435699	1	01/21/25 15:37	01/22/25 13:44	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 12:55	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 12:51	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 19:58	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 21:39	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 13:46	JPD	Mt. Juliet, TN

APW-10S-WG-20250116 L1818476-03 GW

Collected by	Collected date/time	Received date/time
	01/16/25 11:40	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 06:29	01/19/25 06:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435740	1	01/19/25 12:57	01/19/25 12:57	BJM	Mt. Juliet, TN
Mercury by Method 7470A	WG2435466	1	01/22/25 11:12	01/22/25 17:40	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2435699	1	01/21/25 15:37	01/22/25 13:46	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 12:56	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 12:54	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 20:01	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	5	01/21/25 21:51	01/22/25 20:39	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 13:49	JPD	Mt. Juliet, TN

APW-10D-WG-20250116 L1818476-04 GW

Collected by	Collected date/time	Received date/time
	01/16/25 10:50	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 06:42	01/19/25 06:42	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435740	1	01/19/25 12:57	01/19/25 12:57	BJM	Mt. Juliet, TN
Mercury by Method 7470A	WG2435466	1	01/22/25 11:12	01/22/25 17:43	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2435699	1	01/21/25 15:37	01/22/25 13:49	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 12:58	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 12:56	DJS	Mt. Juliet, TN

APW-10D-WG-20250116 L1818476-04 GW

Collected by	Collected date/time	Received date/time
	01/16/25 10:50	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 20:04	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 13:53	JPD	Mt. Juliet, TN

APW-06S-WG-20250115 L1818476-05 GW

Collected by	Collected date/time	Received date/time
	01/15/25 08:05	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 06:56	01/19/25 06:56	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	5	01/19/25 07:09	01/19/25 07:09	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435740	1	01/19/25 12:57	01/19/25 12:57	BJM	Mt. Juliet, TN
Mercury by Method 7470A	WG2435699	1	01/21/25 15:37	01/22/25 13:53	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2437894	1	01/25/25 13:24	01/26/25 18:49	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 12:59	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 12:59	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 20:08	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 13:56	JPD	Mt. Juliet, TN

APW-06D-WG-20250115 L1818476-06 GW

Collected by	Collected date/time	Received date/time
	01/15/25 09:55	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 07:23	01/19/25 07:23	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	10	01/19/25 08:03	01/19/25 08:03	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2435699	1	01/21/25 15:37	01/22/25 13:56	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2437894	1	01/25/25 13:24	01/26/25 19:00	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 13:01	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 13:02	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 20:11	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 13:59	JPD	Mt. Juliet, TN

APW-05R-WG-20250115 L1818476-07 GW

Collected by	Collected date/time	Received date/time
	01/15/25 11:30	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 08:17	01/19/25 08:17	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	10	01/19/25 08:30	01/19/25 08:30	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2436630	1	01/24/25 10:35	01/24/25 19:23	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2437894	1	01/25/25 13:24	01/26/25 19:02	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 13:06	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 13:05	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 20:22	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 14:03	JPD	Mt. Juliet, TN

APW-09-WG-20250115 L1818476-08 GW

Collected by	Collected date/time	Received date/time
	01/15/25 13:50	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 08:44	01/19/25 08:44	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2436630	1	01/24/25 10:35	01/24/25 19:25	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2437894	1	01/25/25 13:24	01/26/25 19:05	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 13:08	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 13:07	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 20:25	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 21:42	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 14:12	JPD	Mt. Juliet, TN

APW-02-WG-20250115 L1818476-09 GW

Collected by	Collected date/time	Received date/time
	01/15/25 10:45	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 08:57	01/19/25 08:57	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	10	01/19/25 09:10	01/19/25 09:10	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2436630	1	01/24/25 10:35	01/24/25 19:28	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2437894	1	01/25/25 13:24	01/26/25 19:12	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 13:09	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 13:10	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 20:29	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 14:15	JPD	Mt. Juliet, TN

APW-01R-WG-20250115 L1818476-10 GW

Collected by	Collected date/time	Received date/time
	01/15/25 12:50	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 09:24	01/19/25 09:24	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2436630	1	01/24/25 10:35	01/24/25 19:30	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2437894	1	01/25/25 13:24	01/26/25 19:14	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 13:11	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 13:18	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 20:32	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2436367	1	01/21/25 21:51	01/22/25 21:45	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 14:19	JPD	Mt. Juliet, TN

APW-04-WG-20250114 L1818476-11 GW

Collected by	Collected date/time	Received date/time
	01/14/25 16:10	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 09:37	01/19/25 09:37	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2436630	1	01/24/25 10:35	01/24/25 19:32	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2437894	1	01/25/25 13:24	01/26/25 19:17	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2436138	1	01/21/25 23:53	01/22/25 13:13	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 13:21	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437013	1	01/21/25 23:45	01/22/25 14:22	JPD	Mt. Juliet, TN

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

APW-04-WG-20250114 L1818476-11 GW

Collected by	Collected date/time	Received date/time
	01/14/25 16:10	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2437484	1	01/22/25 10:39	01/22/25 21:00	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437484	1	01/22/25 10:39	01/22/25 23:20	UNP	Mt. Juliet, TN

EB-01-WG-20250114 L1818476-12 GW

Collected by	Collected date/time	Received date/time
	01/14/25 11:00	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 09:51	01/19/25 09:51	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2436630	1	01/24/25 10:35	01/24/25 19:35	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 13:24	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437484	1	01/22/25 10:39	01/22/25 21:14	UNP	Mt. Juliet, TN

DUP-01-WG-20250115 L1818476-13 GW

Collected by	Collected date/time	Received date/time
	01/15/25 00:01	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 10:04	01/19/25 10:04	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	10	01/19/25 10:45	01/19/25 10:45	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435740	1	01/19/25 12:57	01/19/25 12:57	BJM	Mt. Juliet, TN
Mercury by Method 7470A	WG2436630	1	01/24/25 10:35	01/24/25 19:37	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2437894	1	01/25/25 13:24	01/26/25 19:20	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437015	1	01/21/25 22:13	01/22/25 12:22	DJS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 13:26	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437484	1	01/22/25 10:39	01/22/25 21:17	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2439338	1	01/24/25 17:30	01/24/25 20:49	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2439338	1	01/24/25 17:30	01/26/25 11:52	SJM	Mt. Juliet, TN

DUP-02-WG-20250115 L1818476-14 GW

Collected by	Collected date/time	Received date/time
	01/15/25 00:02	01/18/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2436213	1	01/20/25 09:16	01/21/25 11:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435015	1	01/21/25 03:29	01/21/25 03:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2435686	1	01/19/25 10:58	01/19/25 10:58	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2435741	1	01/18/25 19:00	01/18/25 19:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2436630	1	01/24/25 10:35	01/24/25 19:39	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2437894	1	01/25/25 13:24	01/26/25 19:22	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437015	1	01/21/25 22:13	01/22/25 12:25	DJS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2437020	1	01/21/25 21:45	01/22/25 13:29	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437484	1	01/22/25 10:39	01/22/25 21:20	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2437484	1	01/22/25 10:39	01/22/25 23:24	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2439338	1	01/24/25 17:30	01/24/25 20:53	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2439338	1	01/24/25 17:30	01/26/25 11:55	SJM	Mt. Juliet, TN

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

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.

Jeff Carr
Project Manager

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Lab Sample ID	Project Sample ID	Method
L1818476-01	APW-03-WG-20250116	6020B, 6010D, 7470A
L1818476-02	APW-08-WG-20250115	6020B, 7470A, 6010D
L1818476-03	APW-10S-WG-20250116	6010D, 6020B, 7470A
L1818476-04	APW-10D-WG-20250116	6020B, 6010D, 7470A
L1818476-05	APW-06S-WG-20250115	6020B, 7470A, 6010D
L1818476-06	APW-06D-WG-20250115	6020B, 7470A, 6010D
L1818476-07	APW-05R-WG-20250115	6020B, 6010D, 7470A
L1818476-08	APW-09-WG-20250115	6020B, 6010D, 7470A
L1818476-09	APW-02-WG-20250115	6020B, 6010D, 7470A
L1818476-10	APW-01R-WG-20250115	6010D, 6020B, 7470A
L1818476-11	APW-04-WG-20250114	6020B, 7470A, 6010D
L1818476-13	DUP-01-WG-20250115	6020B, 7470A, 6010D
L1818476-14	DUP-02-WG-20250115	6010D, 6020B, 7470A
R4169286-3		6010D
R4169406-3		6010D
R4170492-3		7470A

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	577		10.0	1	01/21/2025 08:24	WG2436202

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	10.4		1.00	1	01/19/2025 04:27	WG2435686
Fluoride	0.254		0.150	1	01/19/2025 04:27	WG2435686
Sulfate	299		50.0	10	01/19/2025 05:21	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	8.08	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:

L1818476-01 WG2435741: 8.08 at 18.8C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/22/2025 13:42	WG2435699
Mercury,Dissolved	ND		0.000200	1	01/22/2025 17:35	WG2435466

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	4.83		0.200	1	01/22/2025 12:48	WG2437020
Boron,Dissolved	4.74		0.200	1	01/22/2025 12:53	WG2436138
Calcium	124		1.00	1	01/22/2025 12:48	WG2437020
Calcium,Dissolved	116		1.00	1	01/22/2025 12:53	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 21:53	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 13:43	WG2437013
Arsenic	ND		0.00200	1	01/22/2025 19:54	WG2436367
Arsenic,Dissolved	ND		0.00200	1	01/22/2025 13:43	WG2437013
Barium	0.110		0.00200	1	01/22/2025 19:54	WG2436367
Barium,Dissolved	0.102		0.00200	1	01/22/2025 13:43	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 19:54	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 13:43	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 19:54	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 13:43	WG2437013
Chromium	ND		0.00200	1	01/22/2025 19:54	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 13:43	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 19:54	WG2436367
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 13:43	WG2437013
Lead	ND		0.00200	1	01/22/2025 19:54	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 13:43	WG2437013
Lithium	0.0307		0.00200	1	01/22/2025 19:54	WG2436367
Lithium,Dissolved	0.0297		0.00200	1	01/22/2025 13:43	WG2437013
Molybdenum	0.0673		0.00500	1	01/22/2025 19:54	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0656		0.00500	1	01/22/2025 13:43	WG2437013
Selenium	ND		0.00200	1	01/22/2025 19:54	WG2436367
Selenium,Dissolved	ND		0.00200	1	01/22/2025 13:43	WG2437013
Thallium	ND		0.00200	1	01/22/2025 19:54	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 13:43	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	418		10.0	1	01/21/2025 08:24	WG2436202

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.85		1.00	1	01/19/2025 05:48	WG2435686
Fluoride	0.238	P1	0.150	1	01/19/2025 05:48	WG2435686
Sulfate	28.5		5.00	1	01/19/2025 05:48	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.53	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:

L1818476-02 WG2435741: 7.53 at 18.6C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/22/2025 13:44	WG2435699
Mercury,Dissolved	ND		0.000200	1	01/22/2025 17:38	WG2435466

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	01/22/2025 12:51	WG2437020
Boron,Dissolved	ND		0.200	1	01/22/2025 12:55	WG2436138
Calcium	105		1.00	1	01/22/2025 12:51	WG2437020
Calcium,Dissolved	102		1.00	1	01/22/2025 12:55	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 19:58	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 13:46	WG2437013
Arsenic	ND		0.00200	1	01/22/2025 19:58	WG2436367
Arsenic,Dissolved	ND		0.00200	1	01/22/2025 13:46	WG2437013
Barium	0.199		0.00200	1	01/22/2025 19:58	WG2436367
Barium,Dissolved	0.191		0.00200	1	01/22/2025 13:46	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 19:58	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 13:46	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 19:58	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 13:46	WG2437013
Chromium	ND		0.00200	1	01/22/2025 19:58	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 13:46	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 19:58	WG2436367
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 13:46	WG2437013
Lead	ND		0.00200	1	01/22/2025 19:58	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 13:46	WG2437013
Lithium	0.0181		0.00200	1	01/22/2025 19:58	WG2436367
Lithium,Dissolved	0.0170		0.00200	1	01/22/2025 13:46	WG2437013
Molybdenum	ND		0.00500	1	01/22/2025 19:58	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	01/22/2025 13:46	WG2437013
Selenium	0.0196		0.00200	1	01/22/2025 21:39	WG2436367
Selenium,Dissolved	0.0203		0.00200	1	01/22/2025 13:46	WG2437013
Thallium	ND		0.00200	1	01/22/2025 19:58	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 13:46	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	758		20.0	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	14.4		1.00	1	01/19/2025 06:29	WG2435686
Fluoride	0.199		0.150	1	01/19/2025 06:29	WG2435686
Sulfate	5.15		5.00	1	01/19/2025 06:29	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.28	T8	1	01/19/2025 12:57	WG2435740

Sample Narrative:
L1818476-03 WG2435740: 7.28 at 19.4C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/22/2025 13:46	WG2435699
Mercury,Dissolved	ND		0.000200	1	01/22/2025 17:40	WG2435466

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.554		0.200	1	01/22/2025 12:54	WG2437020
Boron,Dissolved	0.563		0.200	1	01/22/2025 12:56	WG2436138
Calcium	168		1.00	1	01/22/2025 12:54	WG2437020
Calcium,Dissolved	159		1.00	1	01/22/2025 12:56	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 20:01	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 13:49	WG2437013
Arsenic	0.191		0.00200	1	01/22/2025 20:01	WG2436367
Arsenic,Dissolved	0.0637		0.00200	1	01/22/2025 13:49	WG2437013
Barium	0.593		0.0100	5	01/22/2025 20:39	WG2436367
Barium,Dissolved	0.316		0.00200	1	01/22/2025 13:49	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 20:01	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 13:49	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 20:01	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 13:49	WG2437013
Chromium	ND		0.00200	1	01/22/2025 20:01	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 13:49	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 20:01	WG2436367
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 13:49	WG2437013
Lead	ND		0.00200	1	01/22/2025 20:01	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 13:49	WG2437013
Lithium	0.0310		0.00200	1	01/22/2025 20:01	WG2436367
Lithium,Dissolved	0.0285		0.00200	1	01/22/2025 13:49	WG2437013
Molybdenum	ND		0.00500	1	01/22/2025 20:01	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	01/22/2025 13:49	WG2437013
Selenium	ND		0.00200	1	01/22/2025 20:01	WG2436367
Selenium,Dissolved	ND		0.00200	1	01/22/2025 13:49	WG2437013
Thallium	ND		0.00200	1	01/22/2025 20:01	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 13:49	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	447		10.0	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	13.3		1.00	1	01/19/2025 06:42	WG2435686
Fluoride	ND		0.150	1	01/19/2025 06:42	WG2435686
Sulfate	44.5		5.00	1	01/19/2025 06:42	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.37	T8	1	01/19/2025 12:57	WG2435740

Sample Narrative:
L1818476-04 WG2435740: 7.37 at 19.3C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/22/2025 13:49	WG2435699
Mercury,Dissolved	ND		0.000200	1	01/22/2025 17:43	WG2435466

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	01/22/2025 12:56	WG2437020
Boron,Dissolved	ND		0.200	1	01/22/2025 12:58	WG2436138
Calcium	142		1.00	1	01/22/2025 12:56	WG2437020
Calcium,Dissolved	126		1.00	1	01/22/2025 12:58	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 20:04	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 13:53	WG2437013
Arsenic	ND		0.00200	1	01/22/2025 20:04	WG2436367
Arsenic,Dissolved	ND		0.00200	1	01/22/2025 13:53	WG2437013
Barium	0.354		0.00200	1	01/22/2025 20:04	WG2436367
Barium,Dissolved	0.340		0.00200	1	01/22/2025 13:53	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 20:04	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 13:53	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 20:04	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 13:53	WG2437013
Chromium	ND		0.00200	1	01/22/2025 20:04	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 13:53	WG2437013
Cobalt	0.00271		0.00200	1	01/22/2025 20:04	WG2436367
Cobalt,Dissolved	0.00244		0.00200	1	01/22/2025 13:53	WG2437013
Lead	ND		0.00200	1	01/22/2025 20:04	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 13:53	WG2437013
Lithium	0.0152		0.00200	1	01/22/2025 20:04	WG2436367
Lithium,Dissolved	0.0142		0.00200	1	01/22/2025 13:53	WG2437013
Molybdenum	ND		0.00500	1	01/22/2025 20:04	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	01/22/2025 13:53	WG2437013
Selenium	ND		0.00200	1	01/22/2025 20:04	WG2436367
Selenium,Dissolved	ND		0.00200	1	01/22/2025 13:53	WG2437013
Thallium	ND		0.00200	1	01/22/2025 20:04	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 13:53	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	673		13.3	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	21.0		1.00	1	01/19/2025 06:56	WG2435686
Fluoride	0.239		0.150	1	01/19/2025 06:56	WG2435686
Sulfate	246		25.0	5	01/19/2025 07:09	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.39	T8	1	01/19/2025 12:57	WG2435740

Sample Narrative:

L1818476-05 WG2435740: 7.39 at 19.3C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/22/2025 13:53	WG2435699
Mercury,Dissolved	ND		0.000200	1	01/26/2025 18:49	WG2437894

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	5.34		0.200	1	01/22/2025 12:59	WG2437020
Boron,Dissolved	5.34		0.200	1	01/22/2025 12:59	WG2436138
Calcium	139		1.00	1	01/22/2025 12:59	WG2437020
Calcium,Dissolved	134		1.00	1	01/22/2025 12:59	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 20:08	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 13:56	WG2437013
Arsenic	ND		0.00200	1	01/22/2025 20:08	WG2436367
Arsenic,Dissolved	ND		0.00200	1	01/22/2025 13:56	WG2437013
Barium	0.262		0.00200	1	01/22/2025 20:08	WG2436367
Barium,Dissolved	0.187		0.00200	1	01/22/2025 13:56	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 20:08	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 13:56	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 20:08	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 13:56	WG2437013
Chromium	ND		0.00200	1	01/22/2025 20:08	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 13:56	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 20:08	WG2436367
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 13:56	WG2437013
Lead	ND		0.00200	1	01/22/2025 20:08	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 13:56	WG2437013
Lithium	0.0409		0.00200	1	01/22/2025 20:08	WG2436367
Lithium,Dissolved	0.0386		0.00200	1	01/22/2025 13:56	WG2437013
Molybdenum	0.195		0.00500	1	01/22/2025 20:08	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.190		0.00500	1	01/22/2025 13:56	WG2437013
Selenium	ND		0.00200	1	01/22/2025 20:08	WG2436367
Selenium,Dissolved	ND		0.00200	1	01/22/2025 13:56	WG2437013
Thallium	ND		0.00200	1	01/22/2025 20:08	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 13:56	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	549		10.0	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	20.5		1.00	1	01/19/2025 07:23	WG2435686
Fluoride	0.170		0.150	1	01/19/2025 07:23	WG2435686
Sulfate	266		50.0	10	01/19/2025 08:03	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.64	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:
L1818476-06 WG2435741: 7.64 at 18.6C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/22/2025 13:56	WG2435699
Mercury,Dissolved	ND		0.000200	1	01/26/2025 19:00	WG2437894

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	3.46		0.200	1	01/22/2025 13:02	WG2437020
Boron,Dissolved	3.33		0.200	1	01/22/2025 13:01	WG2436138
Calcium	120		1.00	1	01/22/2025 13:02	WG2437020
Calcium,Dissolved	114		1.00	1	01/22/2025 13:01	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 20:11	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 13:59	WG2437013
Arsenic	0.00988		0.00200	1	01/22/2025 20:11	WG2436367
Arsenic,Dissolved	0.00414		0.00200	1	01/22/2025 13:59	WG2437013
Barium	0.124		0.00200	1	01/22/2025 20:11	WG2436367
Barium,Dissolved	0.111		0.00200	1	01/22/2025 13:59	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 20:11	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 13:59	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 20:11	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 13:59	WG2437013
Chromium	ND		0.00200	1	01/22/2025 20:11	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 13:59	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 20:11	WG2436367
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 13:59	WG2437013
Lead	ND		0.00200	1	01/22/2025 20:11	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 13:59	WG2437013
Lithium	0.0167		0.00200	1	01/22/2025 20:11	WG2436367
Lithium,Dissolved	0.0156		0.00200	1	01/22/2025 13:59	WG2437013
Molybdenum	0.0553		0.00500	1	01/22/2025 20:11	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0524		0.00500	1	01/22/2025 13:59	WG2437013
Selenium	ND		0.00200	1	01/22/2025 20:11	WG2436367
Selenium,Dissolved	ND		0.00200	1	01/22/2025 13:59	WG2437013
Thallium	ND		0.00200	1	01/22/2025 20:11	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 13:59	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	700		13.3	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	16.1		1.00	1	01/19/2025 08:17	WG2435686
Fluoride	0.289		0.150	1	01/19/2025 08:17	WG2435686
Sulfate	373		50.0	10	01/19/2025 08:30	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.77	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:

L1818476-07 WG2435741: 7.77 at 18.8C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/24/2025 19:23	WG2436630
Mercury,Dissolved	ND		0.000200	1	01/26/2025 19:02	WG2437894

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	8.37		0.200	1	01/22/2025 13:05	WG2437020
Boron,Dissolved	8.20		0.200	1	01/22/2025 13:06	WG2436138
Calcium	141		1.00	1	01/22/2025 13:05	WG2437020
Calcium,Dissolved	132		1.00	1	01/22/2025 13:06	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 20:22	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 14:03	WG2437013
Arsenic	0.00203		0.00200	1	01/22/2025 20:22	WG2436367
Arsenic,Dissolved	ND		0.00200	1	01/22/2025 14:03	WG2437013
Barium	0.194		0.00200	1	01/22/2025 20:22	WG2436367
Barium,Dissolved	0.144		0.00200	1	01/22/2025 14:03	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 20:22	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 14:03	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 20:22	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 14:03	WG2437013
Chromium	ND		0.00200	1	01/22/2025 20:22	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 14:03	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 20:22	WG2436367
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 14:03	WG2437013
Lead	ND		0.00200	1	01/22/2025 20:22	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 14:03	WG2437013
Lithium	0.0373		0.00200	1	01/22/2025 20:22	WG2436367
Lithium,Dissolved	0.0342		0.00200	1	01/22/2025 14:03	WG2437013
Molybdenum	0.185		0.00500	1	01/22/2025 20:22	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.182		0.00500	1	01/22/2025 14:03	WG2437013
Selenium	ND		0.00200	1	01/22/2025 20:22	WG2436367
Selenium,Dissolved	ND		0.00200	1	01/22/2025 14:03	WG2437013
Thallium	ND		0.00200	1	01/22/2025 20:22	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 14:03	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	370		10.0	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	12.8		1.00	1	01/19/2025 08:44	WG2435686
Fluoride	0.150		0.150	1	01/19/2025 08:44	WG2435686
Sulfate	46.8		5.00	1	01/19/2025 08:44	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.81	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:
L1818476-08 WG2435741: 7.81 at 18.5C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/24/2025 19:25	WG2436630
Mercury,Dissolved	ND		0.000200	1	01/26/2025 19:05	WG2437894

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.301		0.200	1	01/22/2025 13:07	WG2437020
Boron,Dissolved	0.311		0.200	1	01/22/2025 13:08	WG2436138
Calcium	90.0		1.00	1	01/22/2025 13:07	WG2437020
Calcium,Dissolved	88.2		1.00	1	01/22/2025 13:08	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 20:25	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 14:12	WG2437013
Arsenic	0.00226		0.00200	1	01/22/2025 20:25	WG2436367
Arsenic,Dissolved	0.00202		0.00200	1	01/22/2025 14:12	WG2437013
Barium	0.125		0.00200	1	01/22/2025 20:25	WG2436367
Barium,Dissolved	0.113		0.00200	1	01/22/2025 14:12	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 20:25	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 14:12	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 20:25	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 14:12	WG2437013
Chromium	ND		0.00200	1	01/22/2025 20:25	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 14:12	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 20:25	WG2436367
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 14:12	WG2437013
Lead	ND		0.00200	1	01/22/2025 20:25	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 14:12	WG2437013
Lithium	0.0155		0.00200	1	01/22/2025 20:25	WG2436367
Lithium,Dissolved	0.0144		0.00200	1	01/22/2025 14:12	WG2437013
Molybdenum	0.0214		0.00500	1	01/22/2025 20:25	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0213		0.00500	1	01/22/2025 14:12	WG2437013
Selenium	0.0204		0.00200	1	01/22/2025 21:42	WG2436367
Selenium,Dissolved	0.0208		0.00200	1	01/22/2025 14:12	WG2437013
Thallium	ND		0.00200	1	01/22/2025 20:25	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 14:12	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	861		13.3	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.58		1.00	1	01/19/2025 08:57	WG2435686
Fluoride	0.224		0.150	1	01/19/2025 08:57	WG2435686
Sulfate	509		50.0	10	01/19/2025 09:10	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.67	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:

L1818476-09 WG2435741: 7.67 at 19.2C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/24/2025 19:28	WG2436630
Mercury,Dissolved	ND		0.000200	1	01/26/2025 19:12	WG2437894

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	9.07		0.200	1	01/22/2025 13:10	WG2437020
Boron,Dissolved	9.11		0.200	1	01/22/2025 13:09	WG2436138
Calcium	165		1.00	1	01/22/2025 13:10	WG2437020
Calcium,Dissolved	150		1.00	1	01/22/2025 13:09	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 20:29	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 14:15	WG2437013
Arsenic	0.00904		0.00200	1	01/22/2025 20:29	WG2436367
Arsenic,Dissolved	0.00299		0.00200	1	01/22/2025 14:15	WG2437013
Barium	0.147		0.00200	1	01/22/2025 20:29	WG2436367
Barium,Dissolved	0.125		0.00200	1	01/22/2025 14:15	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 20:29	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 14:15	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 20:29	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 14:15	WG2437013
Chromium	0.00228		0.00200	1	01/22/2025 20:29	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 14:15	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 20:29	WG2436367
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 14:15	WG2437013
Lead	0.00229		0.00200	1	01/22/2025 20:29	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 14:15	WG2437013
Lithium	0.0437		0.00200	1	01/22/2025 20:29	WG2436367
Lithium,Dissolved	0.0424		0.00200	1	01/22/2025 14:15	WG2437013
Molybdenum	0.188		0.00500	1	01/22/2025 20:29	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.193		0.00500	1	01/22/2025 14:15	WG2437013
Selenium	ND		0.00200	1	01/22/2025 20:29	WG2436367
Selenium,Dissolved	ND		0.00200	1	01/22/2025 14:15	WG2437013
Thallium	ND		0.00200	1	01/22/2025 20:29	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 14:15	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	395		10.0	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	9.52		1.00	1	01/19/2025 09:24	WG2435686
Fluoride	ND		0.150	1	01/19/2025 09:24	WG2435686
Sulfate	81.4		5.00	1	01/19/2025 09:24	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.25	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:

L1818476-10 WG2435741: 7.25 at 18.5C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/24/2025 19:30	WG2436630
Mercury,Dissolved	ND		0.000200	1	01/26/2025 19:14	WG2437894

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.244		0.200	1	01/22/2025 13:18	WG2437020
Boron,Dissolved	0.261		0.200	1	01/22/2025 13:11	WG2436138
Calcium	95.4		1.00	1	01/22/2025 13:18	WG2437020
Calcium,Dissolved	89.8		1.00	1	01/22/2025 13:11	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 20:32	WG2436367
Antimony,Dissolved	ND		0.00400	1	01/22/2025 14:19	WG2437013
Arsenic	ND		0.00200	1	01/22/2025 20:32	WG2436367
Arsenic,Dissolved	ND		0.00200	1	01/22/2025 14:19	WG2437013
Barium	0.168		0.00200	1	01/22/2025 20:32	WG2436367
Barium,Dissolved	0.163		0.00200	1	01/22/2025 14:19	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 20:32	WG2436367
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 14:19	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 20:32	WG2436367
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 14:19	WG2437013
Chromium	ND		0.00200	1	01/22/2025 20:32	WG2436367
Chromium,Dissolved	ND		0.00200	1	01/22/2025 14:19	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 20:32	WG2436367
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 14:19	WG2437013
Lead	ND		0.00200	1	01/22/2025 20:32	WG2436367
Lead,Dissolved	ND		0.00200	1	01/22/2025 14:19	WG2437013
Lithium	0.0154		0.00200	1	01/22/2025 20:32	WG2436367
Lithium,Dissolved	0.0145		0.00200	1	01/22/2025 14:19	WG2437013
Molybdenum	ND		0.00500	1	01/22/2025 20:32	WG2436367

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	01/22/2025 14:19	WG2437013
Selenium	0.00337		0.00200	1	01/22/2025 21:45	WG2436367
Selenium,Dissolved	0.00420		0.00200	1	01/22/2025 14:19	WG2437013
Thallium	ND		0.00200	1	01/22/2025 20:32	WG2436367
Thallium,Dissolved	ND		0.00200	1	01/22/2025 14:19	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	440		10.0	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	10.4		1.00	1	01/19/2025 09:37	WG2435686
Fluoride	ND		0.150	1	01/19/2025 09:37	WG2435686
Sulfate	70.8		5.00	1	01/19/2025 09:37	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.77	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:

L1818476-11 WG2435741: 7.77 at 18.5C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/24/2025 19:32	WG2436630
Mercury,Dissolved	ND		0.000200	1	01/26/2025 19:17	WG2437894

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.733		0.200	1	01/22/2025 13:21	WG2437020
Boron,Dissolved	0.710		0.200	1	01/22/2025 13:13	WG2436138
Calcium	110		1.00	1	01/22/2025 13:21	WG2437020
Calcium,Dissolved	105		1.00	1	01/22/2025 13:13	WG2436138

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 21:00	WG2437484
Antimony,Dissolved	ND		0.00400	1	01/22/2025 14:22	WG2437013
Arsenic	ND		0.00200	1	01/22/2025 21:00	WG2437484
Arsenic,Dissolved	ND		0.00200	1	01/22/2025 14:22	WG2437013
Barium	0.139		0.00200	1	01/22/2025 21:00	WG2437484
Barium,Dissolved	0.132		0.00200	1	01/22/2025 14:22	WG2437013
Beryllium	ND		0.00200	1	01/22/2025 21:00	WG2437484
Beryllium,Dissolved	ND		0.00200	1	01/22/2025 14:22	WG2437013
Cadmium	ND		0.00100	1	01/22/2025 21:00	WG2437484
Cadmium,Dissolved	ND		0.00100	1	01/22/2025 14:22	WG2437013
Chromium	ND		0.00200	1	01/22/2025 21:00	WG2437484
Chromium,Dissolved	ND		0.00200	1	01/22/2025 14:22	WG2437013
Cobalt	ND		0.00200	1	01/22/2025 21:00	WG2437484
Cobalt,Dissolved	ND		0.00200	1	01/22/2025 14:22	WG2437013
Lead	ND		0.00200	1	01/22/2025 21:00	WG2437484
Lead,Dissolved	ND		0.00200	1	01/22/2025 14:22	WG2437013
Lithium	0.0293		0.00200	1	01/22/2025 21:00	WG2437484
Lithium,Dissolved	0.0275		0.00200	1	01/22/2025 14:22	WG2437013
Molybdenum	0.0443		0.00500	1	01/22/2025 21:00	WG2437484

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0440		0.00500	1	01/22/2025 14:22	WG2437013
Selenium	0.0117		0.00200	1	01/22/2025 23:20	WG2437484
Selenium,Dissolved	0.0111		0.00200	1	01/22/2025 14:22	WG2437013
Thallium	ND		0.00200	1	01/22/2025 21:00	WG2437484
Thallium,Dissolved	ND		0.00200	1	01/22/2025 14:22	WG2437013

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	ND		10.0	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	ND		1.00	1	01/19/2025 09:51	WG2435686
Fluoride	ND		0.150	1	01/19/2025 09:51	WG2435686
Sulfate	7.83		5.00	1	01/19/2025 09:51	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	5.45	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:

L1818476-12 WG2435741: 5.45 at 18.6C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/24/2025 19:35	WG2436630

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	01/22/2025 13:24	WG2437020
Calcium	ND		1.00	1	01/22/2025 13:24	WG2437020

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 21:14	WG2437484
Arsenic	ND		0.00200	1	01/22/2025 21:14	WG2437484
Barium	ND		0.00200	1	01/22/2025 21:14	WG2437484
Beryllium	ND		0.00200	1	01/22/2025 21:14	WG2437484
Cadmium	ND		0.00100	1	01/22/2025 21:14	WG2437484
Chromium	ND		0.00200	1	01/22/2025 21:14	WG2437484
Cobalt	ND		0.00200	1	01/22/2025 21:14	WG2437484
Lead	ND		0.00200	1	01/22/2025 21:14	WG2437484
Lithium	ND		0.00200	1	01/22/2025 21:14	WG2437484
Molybdenum	ND		0.00500	1	01/22/2025 21:14	WG2437484
Selenium	ND		0.00200	1	01/22/2025 21:14	WG2437484
Thallium	ND		0.00200	1	01/22/2025 21:14	WG2437484

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	688		13.3	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	16.2		1.00	1	01/19/2025 10:04	WG2435686
Fluoride	0.295		0.150	1	01/19/2025 10:04	WG2435686
Sulfate	374		50.0	10	01/19/2025 10:45	WG2435686

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.82	T8	1	01/19/2025 12:57	WG2435740

Sample Narrative:

L1818476-13 WG2435740: 7.82 at 19.7C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/24/2025 19:37	WG2436630
Mercury,Dissolved	ND		0.000200	1	01/26/2025 19:20	WG2437894

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	8.28		0.200	1	01/22/2025 13:26	WG2437020
Boron,Dissolved	8.17		0.200	1	01/22/2025 12:22	WG2437015
Calcium	141		1.00	1	01/22/2025 13:26	WG2437020
Calcium,Dissolved	134		1.00	1	01/22/2025 12:22	WG2437015

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 21:17	WG2437484
Antimony,Dissolved	ND		0.00400	1	01/24/2025 20:49	WG2439338
Arsenic	0.00206		0.00200	1	01/22/2025 21:17	WG2437484
Arsenic,Dissolved	ND		0.00200	1	01/24/2025 20:49	WG2439338
Barium	0.198		0.00200	1	01/22/2025 21:17	WG2437484
Barium,Dissolved	0.137		0.00200	1	01/24/2025 20:49	WG2439338
Beryllium	ND		0.00200	1	01/22/2025 21:17	WG2437484
Beryllium,Dissolved	ND		0.00200	1	01/24/2025 20:49	WG2439338
Cadmium	ND		0.00100	1	01/22/2025 21:17	WG2437484
Cadmium,Dissolved	ND		0.00100	1	01/24/2025 20:49	WG2439338
Chromium	ND		0.00200	1	01/22/2025 21:17	WG2437484
Chromium,Dissolved	ND		0.00200	1	01/26/2025 11:52	WG2439338
Cobalt	ND		0.00200	1	01/22/2025 21:17	WG2437484
Cobalt,Dissolved	ND		0.00200	1	01/24/2025 20:49	WG2439338
Lead	ND		0.00200	1	01/22/2025 21:17	WG2437484
Lead,Dissolved	ND		0.00200	1	01/24/2025 20:49	WG2439338
Lithium	0.0361		0.00200	1	01/22/2025 21:17	WG2437484
Lithium,Dissolved	0.0326		0.00200	1	01/24/2025 20:49	WG2439338
Molybdenum	0.185		0.00500	1	01/22/2025 21:17	WG2437484

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.172		0.00500	1	01/24/2025 20:49	WG2439338
Selenium	ND		0.00200	1	01/22/2025 21:17	WG2437484
Selenium,Dissolved	ND		0.00200	1	01/26/2025 11:52	WG2439338
Thallium	ND		0.00200	1	01/22/2025 21:17	WG2437484
Thallium,Dissolved	ND		0.00200	1	01/24/2025 20:49	WG2439338

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	362		10.0	1	01/21/2025 11:47	WG2436213

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	14.8		1.00	1	01/19/2025 10:58	WG2435686
Fluoride	0.162		0.150	1	01/19/2025 10:58	WG2435686
Sulfate	41.7		5.00	1	01/21/2025 03:29	WG2435015

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	8.15	T8	1	01/18/2025 19:00	WG2435741

Sample Narrative:

L1818476-14 WG2435741: 8.15 at 18.7C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/24/2025 19:39	WG2436630
Mercury,Dissolved	ND		0.000200	1	01/26/2025 19:22	WG2437894

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.310		0.200	1	01/22/2025 13:29	WG2437020
Boron,Dissolved	0.318		0.200	1	01/22/2025 12:25	WG2437015
Calcium	90.2		1.00	1	01/22/2025 13:29	WG2437020
Calcium,Dissolved	86.1		1.00	1	01/22/2025 12:25	WG2437015

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	01/22/2025 21:20	WG2437484
Antimony,Dissolved	ND		0.00400	1	01/24/2025 20:53	WG2439338
Arsenic	0.00211		0.00200	1	01/22/2025 21:20	WG2437484
Arsenic,Dissolved	ND		0.00200	1	01/24/2025 20:53	WG2439338
Barium	0.124		0.00200	1	01/22/2025 21:20	WG2437484
Barium,Dissolved	0.106		0.00200	1	01/24/2025 20:53	WG2439338
Beryllium	ND		0.00200	1	01/22/2025 21:20	WG2437484
Beryllium,Dissolved	ND		0.00200	1	01/24/2025 20:53	WG2439338
Cadmium	ND		0.00100	1	01/22/2025 21:20	WG2437484
Cadmium,Dissolved	ND		0.00100	1	01/24/2025 20:53	WG2439338
Chromium	ND		0.00200	1	01/22/2025 21:20	WG2437484
Chromium,Dissolved	ND		0.00200	1	01/26/2025 11:55	WG2439338
Cobalt	ND		0.00200	1	01/22/2025 21:20	WG2437484
Cobalt,Dissolved	ND		0.00200	1	01/24/2025 20:53	WG2439338
Lead	ND		0.00200	1	01/22/2025 21:20	WG2437484
Lead,Dissolved	ND		0.00200	1	01/24/2025 20:53	WG2439338
Lithium	0.0146		0.00200	1	01/22/2025 21:20	WG2437484
Lithium,Dissolved	0.0128		0.00200	1	01/24/2025 20:53	WG2439338
Molybdenum	0.0213		0.00500	1	01/22/2025 21:20	WG2437484

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0205		0.00500	1	01/24/2025 20:53	WG2439338
Selenium	0.0216		0.00200	1	01/22/2025 23:24	WG2437484
Selenium,Dissolved	0.0203		0.00200	1	01/26/2025 11:55	WG2439338
Thallium	ND		0.00200	1	01/22/2025 21:20	WG2437484
Thallium,Dissolved	ND		0.00200	1	01/24/2025 20:53	WG2439338

Method Blank (MB)

(MB) R4169800-1 01/21/25 08:24

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

L1818118-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1818118-01 01/21/25 08:24 • (DUP) R4169800-3 01/21/25 08:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	20300	20100	1	1.19		10

L1818548-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1818548-04 01/21/25 08:24 • (DUP) R4169800-4 01/21/25 08:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3040	3050	1	0.164		10

Laboratory Control Sample (LCS)

(LCS) R4169800-2 01/21/25 08:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8840	100	85.0-115	

Method Blank (MB)

(MB) R4170024-1 01/21/25 11:47

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

L1817537-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1817537-01 01/21/25 11:47 • (DUP) R4170024-3 01/21/25 11:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	151	150	1	0.664		10

L1818586-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1818586-01 01/21/25 11:47 • (DUP) R4170024-4 01/21/25 11:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2270	2220	1	2.01		10

Laboratory Control Sample (LCS)

(LCS) R4170024-2 01/21/25 11:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8810	100	85.0-115	

Method Blank (MB)

(MB) R4168996-1 01/20/25 21:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfate	U		0.637	5.00

L1817892-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1817892-07 01/20/25 23:40 • (DUP) R4168996-3 01/20/25 23:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	9.16	8.95	1	2.41		15

L1817892-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1817892-09 01/21/25 00:44 • (DUP) R4168996-6 01/21/25 00:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	ND	ND	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4168996-2 01/20/25 21:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	40.1	100	80.0-120	

L1817892-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1817892-07 01/20/25 23:40 • (MS) R4168996-4 01/21/25 00:05 • (MSD) R4168996-5 01/21/25 00:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	40.0	9.16	47.5	47.8	95.8	96.5	1	80.0-120			0.594	15

L1817892-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1817892-09 01/21/25 00:44 • (MS) R4168996-7 01/21/25 01:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	40.0	ND	38.8	96.9	1	80.0-120	

Method Blank (MB)

(MB) R4168240-1 01/19/25 00:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1818476-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1818476-01 01/19/25 04:27 • (DUP) R4168240-3 01/19/25 04:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	10.4	10.4	1	0.262		15
Fluoride	0.254	0.290	1	13.0		15

L1818476-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1818476-01 01/19/25 05:21 • (DUP) R4168240-6 01/19/25 05:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	299	301	10	0.594		15

L1818476-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1818476-02 01/19/25 05:48 • (DUP) R4168240-7 01/19/25 06:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8.85	8.88	1	0.250		15
Fluoride	0.238	0.279	1	16.1	P1	15
Sulfate	28.5	29.0	1	1.45		15

Laboratory Control Sample (LCS)

(LCS) R4168240-2 01/19/25 01:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.8	99.6	80.0-120	
Fluoride	8.00	7.97	99.6	80.0-120	
Sulfate	40.0	40.6	101	80.0-120	

L1818476-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818476-01 01/19/25 04:27 • (MS) R4168240-4 01/19/25 04:54 • (MSD) R4168240-5 01/19/25 05:08

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	10.4	48.7	49.0	95.8	96.7	1	80.0-120			0.679	15
Fluoride	8.00	0.254	8.32	8.34	101	101	1	80.0-120			0.270	15
Sulfate	40.0	297	255	257	0.000	0.000	1	80.0-120	E V	E V	0.762	15

L1818476-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1818476-02 01/19/25 05:48 • (MS) R4168240-8 01/19/25 06:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	8.85	47.6	96.8	1	80.0-120	
Fluoride	8.00	0.238	8.30	101	1	80.0-120	
Sulfate	40.0	28.5	67.8	98.2	1	80.0-120	

L1818025-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1818025-02 01/19/25 12:57 • (DUP) R4168214-2 01/19/25 12:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.08	8.07	1	0.124		1

Sample Narrative:

OS: 8.08 at 19.2C

DUP: 8.07 at 19.3C

L1818476-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1818476-13 01/19/25 12:57 • (DUP) R4168214-3 01/19/25 12:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.82	7.81	1	0.128		1

Sample Narrative:

OS: 7.82 at 19.7C

DUP: 7.81 at 19.3C

Laboratory Control Sample (LCS)

(LCS) R4168214-1 01/19/25 12:57

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

Sample Narrative:

LCS: 10.01 at 20.3C

L1818261-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1818261-01 01/18/25 19:00 • (DUP) R4168167-2 01/18/25 19:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.18	8.22	1	0.488		1

Sample Narrative:

OS: 8.18 at 19.4C

DUP: 8.22 at 18.7C

L1818491-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1818491-06 01/18/25 19:00 • (DUP) R4168167-3 01/18/25 19:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.37	8.38	1	0.119		1

Sample Narrative:

OS: 8.37 at 19C

DUP: 8.38 at 18.9C

Laboratory Control Sample (LCS)

(LCS) R4168167-1 01/18/25 19:00

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

Sample Narrative:

LCS: 10.01 at 20.3C

Method Blank (MB)

(MB) R4169475-1 01/22/25 15:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.0000700	0.000200

Laboratory Control Sample (LCS)

(LCS) R4169475-6 01/22/25 17:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00298	99.3	80.0-120	

L1818118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818118-05 01/22/25 15:40 • (MS) R4169475-4 01/22/25 15:45 • (MSD) R4169475-5 01/22/25 15:47

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 %
Mercury,Dissolved	0.00300	ND	0.00277	0.00269	92.4	89.7	1	75.0-125			2.90	20

Method Blank (MB)

(MB) R4169376-1 01/22/25 12:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.0000700	0.000200

Laboratory Control Sample (LCS)

(LCS) R4169376-2 01/22/25 12:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00314	105	80.0-120	

L1818384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818384-01 01/22/25 13:09 • (MS) R4169376-4 01/22/25 13:13 • (MSD) R4169376-5 01/22/25 13:16

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 %
Mercury	0.00300	ND	0.00306	0.00302	102	101	1	75.0-125			1.32	20

QUALITY CONTROL SUMMARY

L1818476-07,08,09,10,11,12,13,14

Method Blank (MB)

(MB) R4170239-1 01/24/25 19:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.0000700	0.000200

Laboratory Control Sample (LCS)

(LCS) R4170239-6 01/24/25 20:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00275	91.7	80.0-120	

L1819082-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819082-02 01/24/25 19:06 • (MS) R4170239-4 01/24/25 19:11 • (MSD) R4170239-5 01/24/25 19:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00266	0.00280	88.6	93.5	1	75.0-125			5.37	20

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

Method Blank (MB)

(MB) R4170492-1 01/26/25 18:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.0000700	0.000200

Laboratory Control Sample (LCS)

(LCS) R4170492-2 01/26/25 18:47

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

L1818476-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818476-05 01/26/25 18:49 • (MS) R4170492-4 01/26/25 18:54 • (MSD) R4170492-5 01/26/25 18:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	ND	0.00318	0.00326	106	109	1	75.0-125			2.43	20

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

Method Blank (MB)

(MB) R4169406-1 01/22/25 12:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0233	0.200
Calcium,Dissolved	U		0.153	1.00

Laboratory Control Sample (LCS)

(LCS) R4169406-2 01/22/25 12:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.938	93.8	80.0-120	
Calcium,Dissolved	10.0	9.97	99.7	80.0-120	

L1818298-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818298-01 01/22/25 12:30 • (MS) R4169406-4 01/22/25 12:33 • (MSD) R4169406-5 01/22/25 12:35

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 %
Boron,Dissolved	1.00	ND	0.974	0.965	97.4	96.5	1	75.0-125			0.854	20
Calcium,Dissolved	10.0	54.9	66.0	64.9	111	100	1	75.0-125			1.68	20

Method Blank (MB)

(MB) R4169286-1 01/22/25 11:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0233	0.200
Calcium,Dissolved	U		0.153	1.00

Laboratory Control Sample (LCS)

(LCS) R4169286-6 01/22/25 12:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.949	94.9	80.0-120	
Calcium,Dissolved	10.0	9.80	98.0	80.0-120	

L1818919-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818919-09 01/22/25 11:52 • (MS) R4169286-4 01/22/25 11:57 • (MSD) R4169286-5 01/22/25 11:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	ND	1.06	1.08	94.9	96.9	1	75.0-125			1.84	20
Calcium,Dissolved	10.0	108	117	117	89.7	95.8	1	75.0-125			0.527	20

Method Blank (MB)

(MB) R4169350-1 01/22/25 12:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0233	0.200
Calcium	U		0.153	1.00

Laboratory Control Sample (LCS)

(LCS) R4169350-2 01/22/25 12:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.942	94.2	80.0-120	
Calcium	10.0	9.87	98.7	80.0-120	

L1818261-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818261-01 01/22/25 12:18 • (MS) R4169350-4 01/22/25 12:24 • (MSD) R4169350-5 01/22/25 12:26

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	0.943	0.925	94.3	92.5	1	75.0-125			1.92	20
Calcium	10.0	47.3	56.1	55.8	88.0	84.4	1	75.0-125			0.643	20

Method Blank (MB)

(MB) R4169488-1 01/22/25 18:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.000310	0.00400
Arsenic	U		0.000120	0.00200
Barium	U		0.000500	0.00200
Beryllium	U		0.000200	0.00200
Cadmium	U		0.000120	0.00100
Chromium	U		0.000900	0.00200
Cobalt	U		0.000100	0.00200
Lead	U		0.000500	0.00200
Lithium	U		0.000600	0.00200
Molybdenum	U		0.000500	0.00500
Selenium	U		0.000250	0.00200
Thallium	U		0.000130	0.00200

Laboratory Control Sample (LCS)

(LCS) R4169488-2 01/22/25 18:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0505	101	80.0-120	
Arsenic	0.0500	0.0488	97.7	80.0-120	
Barium	0.0500	0.0459	91.9	80.0-120	
Beryllium	0.0500	0.0482	96.5	80.0-120	
Cadmium	0.0500	0.0517	103	80.0-120	
Chromium	0.0500	0.0505	101	80.0-120	
Cobalt	0.0500	0.0508	102	80.0-120	
Lead	0.0500	0.0489	97.8	80.0-120	
Lithium	0.0500	0.0489	97.8	80.0-120	
Molybdenum	0.0500	0.0482	96.4	80.0-120	
Selenium	0.0500	0.0496	99.2	80.0-120	
Thallium	0.0500	0.0494	98.8	80.0-120	

L1818194-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818194-24 01/22/25 18:54 • (MS) R4169488-4 01/22/25 19:01 • (MSD) R4169488-5 01/22/25 19:04

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	0.0496	0.0493	99.3	98.6	1	75.0-125			0.679	20
Arsenic	0.0500	ND	0.0476	0.0474	95.3	94.8	1	75.0-125			0.562	20
Barium	0.0500	ND	0.0488	0.0473	97.6	94.7	1	75.0-125			3.02	20

L1818194-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818194-24 01/22/25 18:54 • (MS) R4169488-4 01/22/25 19:01 • (MSD) R4169488-5 01/22/25 19:04

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 %
Beryllium	0.0500	ND	0.0490	0.0479	98.0	95.8	1	75.0-125			2.24	20
Cadmium	0.0500	ND	0.0492	0.0501	98.3	100	1	75.0-125			1.86	20
Chromium	0.0500	ND	0.0494	0.0495	98.8	99.1	1	75.0-125			0.224	20
Cobalt	0.0500	ND	0.0495	0.0499	99.1	99.7	1	75.0-125			0.658	20
Lead	0.0500	ND	0.0476	0.0478	95.2	95.7	1	75.0-125			0.507	20
Lithium	0.0500		0.0492	0.0488	98.3	97.6	1	75.0-125			0.732	20
Molybdenum	0.0500	ND	0.0479	0.0480	95.9	96.0	1	75.0-125			0.103	20
Selenium	0.0500	ND	0.0481	0.0498	96.2	99.7	1	75.0-125			3.58	20
Thallium	0.0500	ND	0.0480	0.0479	95.9	95.8	1	75.0-125			0.171	20

QUALITY CONTROL SUMMARY

L1818476-01,02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R4169333-1 01/22/25 12:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony,Dissolved	U		0.000310	0.00400
Arsenic,Dissolved	U		0.000120	0.00200
Barium,Dissolved	U		0.000500	0.00200
Beryllium,Dissolved	U		0.000200	0.00200
Cadmium,Dissolved	U		0.000120	0.00100
Chromium,Dissolved	U		0.000900	0.00200
Cobalt,Dissolved	U		0.000100	0.00200
Lead,Dissolved	U		0.000500	0.00200
Lithium,Dissolved	U		0.000600	0.00200
Molybdenum,Dissolved	U		0.000500	0.00500
Selenium,Dissolved	U		0.000250	0.00200
Thallium,Dissolved	U		0.000130	0.00200

Laboratory Control Sample (LCS)

(LCS) R4169333-2 01/22/25 12:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony,Dissolved	0.0500	0.0539	108	80.0-120	
Arsenic,Dissolved	0.0500	0.0504	101	80.0-120	
Barium,Dissolved	0.0500	0.0474	94.8	80.0-120	
Beryllium,Dissolved	0.0500	0.0498	99.6	80.0-120	
Cadmium,Dissolved	0.0500	0.0517	103	80.0-120	
Chromium,Dissolved	0.0500	0.0513	103	80.0-120	
Cobalt,Dissolved	0.0500	0.0519	104	80.0-120	
Lead,Dissolved	0.0500	0.0489	97.9	80.0-120	
Lithium,Dissolved	0.0500	0.0499	99.8	80.0-120	
Molybdenum,Dissolved	0.0500	0.0497	99.5	80.0-120	
Selenium,Dissolved	0.0500	0.0488	97.5	80.0-120	
Thallium,Dissolved	0.0500	0.0480	96.0	80.0-120	

L1818282-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818282-21 01/22/25 12:56 • (MS) R4169333-4 01/22/25 13:02 • (MSD) R4169333-5 01/22/25 13:06

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,Dissolved	0.0500	ND	0.0575	0.0569	114	112	1	75.0-125			1.07	20
Arsenic,Dissolved	0.0500	ND	0.0509	0.0497	101	98.5	1	75.0-125			2.42	20
Barium,Dissolved	0.0500	0.640	0.680	0.678	79.7	75.1	1	75.0-125			0.337	20

L1818282-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818282-21 01/22/25 12:56 • (MS) R4169333-4 01/22/25 13:02 • (MSD) R4169333-5 01/22/25 13:06

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 %
Beryllium,Dissolved	0.0500	ND	0.0453	0.0443	90.7	88.5	1	75.0-125			2.44	20
Cadmium,Dissolved	0.0500	ND	0.0521	0.0510	104	102	1	75.0-125			2.10	20
Chromium,Dissolved	0.0500	ND	0.0506	0.0491	99.0	96.1	1	75.0-125			2.92	20
Cobalt,Dissolved	0.0500	0.00259	0.0513	0.0498	97.4	94.4	1	75.0-125			2.90	20
Lead,Dissolved	0.0500	ND	0.0478	0.0469	95.7	93.9	1	75.0-125			1.90	20
Lithium,Dissolved	0.0500		0.0525	0.0513	88.5	86.0	1	75.0-125			2.43	20
Molybdenum,Dissolved	0.0500	ND	0.0551	0.0537	107	104	1	75.0-125			2.66	20
Selenium,Dissolved	0.0500	ND	0.0533	0.0507	107	101	1	75.0-125			4.99	20
Thallium,Dissolved	0.0500	ND	0.0469	0.0463	93.7	92.6	1	75.0-125			1.20	20

QUALITY CONTROL SUMMARY

L1818476-11,12,13,14

Method Blank (MB)

(MB) R4169535-1 01/22/25 20:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.000310	0.00400
Arsenic	U		0.000120	0.00200
Barium	U		0.000500	0.00200
Beryllium	U		0.000200	0.00200
Cadmium	U		0.000120	0.00100
Chromium	U		0.000900	0.00200
Cobalt	U		0.000100	0.00200
Lead	U		0.000500	0.00200
Lithium	U		0.000600	0.00200
Molybdenum	U		0.000500	0.00500
Selenium	U		0.000250	0.00200
Thallium	U		0.000130	0.00200

Laboratory Control Sample (LCS)

(LCS) R4169535-2 01/22/25 20:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0503	101	80.0-120	
Arsenic	0.0500	0.0503	101	80.0-120	
Barium	0.0500	0.0504	101	80.0-120	
Beryllium	0.0500	0.0518	104	80.0-120	
Cadmium	0.0500	0.0535	107	80.0-120	
Chromium	0.0500	0.0533	107	80.0-120	
Cobalt	0.0500	0.0535	107	80.0-120	
Lead	0.0500	0.0515	103	80.0-120	
Lithium	0.0500	0.0533	107	80.0-120	
Molybdenum	0.0500	0.0487	97.4	80.0-120	
Selenium	0.0500	0.0506	101	80.0-120	
Thallium	0.0500	0.0525	105	80.0-120	

L1818476-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818476-11 01/22/25 21:00 • (MS) R4169535-4 01/22/25 21:07 • (MSD) R4169535-5 01/22/25 21:10

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	0.0527	0.0527	105	105	1	75.0-125			0.0870	20
Arsenic	0.0500	ND	0.0525	0.0519	102	101	1	75.0-125			1.15	20
Barium	0.0500	0.139	0.193	0.191	109	105	1	75.0-125			1.04	20

L1818476-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818476-11 01/22/25 21:00 • (MS) R4169535-4 01/22/25 21:07 • (MSD) R4169535-5 01/22/25 21:10

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 %
Beryllium	0.0500	ND	0.0507	0.0511	101	102	1	75.0-125			0.781	20
Cadmium	0.0500	ND	0.0533	0.0522	107	104	1	75.0-125			2.14	20
Chromium	0.0500	ND	0.0533	0.0530	107	106	1	75.0-125			0.498	20
Cobalt	0.0500	ND	0.0523	0.0517	104	103	1	75.0-125			1.23	20
Lead	0.0500	ND	0.0512	0.0506	102	101	1	75.0-125			1.17	20
Lithium	0.0500	0.0293	0.0805	0.0822	102	106	1	75.0-125			2.02	20
Molybdenum	0.0500	0.0443	0.0968	0.0968	105	105	1	75.0-125			0.0535	20
Selenium	0.0500	0.0111	0.0622	0.0624	102	103	1	75.0-125			0.339	20
Thallium	0.0500	ND	0.0522	0.0510	104	102	1	75.0-125			2.31	20

Method Blank (MB)

(MB) R4170247-1 01/24/25 20:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony,Dissolved	0.000825	J	0.000310	0.00400
Arsenic,Dissolved	0.000247	J	0.000120	0.00200
Barium,Dissolved	U		0.000500	0.00200
Beryllium,Dissolved	U		0.000200	0.00200
Cadmium,Dissolved	U		0.000120	0.00100
Cobalt,Dissolved	U		0.000100	0.00200
Lead,Dissolved	U		0.000500	0.00200
Lithium,Dissolved	U		0.000600	0.00200
Molybdenum,Dissolved	U		0.000500	0.00500
Thallium,Dissolved	U		0.000130	0.00200

Method Blank (MB)

(MB) R4170421-1 01/26/25 11:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Dissolved	U		0.000900	0.00200
Selenium,Dissolved	U		0.000250	0.00200

Laboratory Control Sample (LCS)

(LCS) R4170247-2 01/24/25 20:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony,Dissolved	0.0500	0.0474	94.8	80.0-120	
Arsenic,Dissolved	0.0500	0.0465	93.0	80.0-120	
Barium,Dissolved	0.0500	0.0431	86.2	80.0-120	
Beryllium,Dissolved	0.0500	0.0470	94.0	80.0-120	
Cadmium,Dissolved	0.0500	0.0476	95.1	80.0-120	
Cobalt,Dissolved	0.0500	0.0479	95.7	80.0-120	
Lead,Dissolved	0.0500	0.0459	91.7	80.0-120	
Lithium,Dissolved	0.0500	0.0431	86.2	80.0-120	
Molybdenum,Dissolved	0.0500	0.0473	94.7	80.0-120	
Thallium,Dissolved	0.0500	0.0446	89.2	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4170421-2 01/26/25 11:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Dissolved	0.0500	0.0496	99.2	80.0-120	
Selenium,Dissolved	0.0500	0.0462	92.4	80.0-120	

L1819840-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819840-01 01/24/25 20:36 • (MS) R4170247-4 01/24/25 20:43 • (MSD) R4170247-5 01/24/25 20:46

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,Dissolved	0.0500	ND	0.0498	0.0491	95.1	93.9	1	75.0-125			1.29	20
Arsenic,Dissolved	0.0500	0.0929	0.137	0.139	87.3	93.1	1	75.0-125			2.11	20
Barium,Dissolved	0.0500	0.0311	0.0722	0.0714	82.3	80.5	1	75.0-125			1.23	20
Beryllium,Dissolved	0.0500	ND	0.0471	0.0452	94.2	90.4	1	75.0-125			4.15	20
Cadmium,Dissolved	0.0500	ND	0.0450	0.0458	89.9	91.5	1	75.0-125			1.75	20
Cobalt,Dissolved	0.0500	0.0238	0.0693	0.0685	91.1	89.4	1	75.0-125			1.20	20
Lead,Dissolved	0.0500	0.00323	0.0484	0.0475	90.4	88.5	1	75.0-125			1.93	20
Lithium,Dissolved	0.0500	0.00351	0.0475	0.0463	87.9	85.6	1	75.0-125			2.43	20
Molybdenum,Dissolved	0.0500	0.0153	0.0632	0.0629	95.9	95.3	1	75.0-125			0.473	20
Thallium,Dissolved	0.0500	ND	0.0455	0.0456	88.9	89.2	1	75.0-125			0.301	20

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
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.
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	LAO000356
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:
ERM - St. Louis, MO

1968 Craig Road, Suite 100
Saint Louis, MO 63146

Billing Information:
Accounts Payable Dept.
1701 Golf Road, Suite 1-1000
Rolling Meadows, IL 60008-4242

Report to: **Randy Homburg**

Email To: **Randy.Homburg@erm.com;Tim.Wilson@erm.co**

Project Description: **Grand Tower Energy Center Groundwater 4Q24**

City/State Collected: Grand Tower, IL

Please Circle: PT MT (CT) ET

Phone: **314-682-3980**

Client Project # **0599247**

Lab Project # **ERMSCMO-0599247**

Collected by (print): Marshall Arendell

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y X

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Anions 125mlHDPE-NoPres	Dissolved Metals 250mlHDPE-NoPres	TDS 1L-HDPE NoPres	Total Metals 250mlHDPE-HNO3	pH 125mlHDPE-NoPres	Remarks	Sample # (lab only)
(MO) APW-03-WG-2024[5]0116	Grab	GW		1/16/25	0900	5	X	X	X	X	X		01
APW-08-WG-2024[5]0115		GW		1/15/25	1540	5	X	X	X	X	X		02
~~APW-07-WG-2024[5]0116~~		~~GW~~		1/16/25		5	X	X	X	X	X	No samples collected	
APW-10S-WG-2024[5]0116		GW		"	1140	5	X	X	X	X	X		03
APW-10D-WG-2024[5]0116		GW		"	1055	5	X	X	X	X	X		04
APW-06S-WG-2024[5]0115		GW		1/15/25	0805	5	X	X	X	X	X		05
APW-06D-WG-2024[5]0115		GW			0955	5	X	X	X	X	X		06
APW-05R-WG-2024[5]0115		GW			1130	5	X	X	X	X	X		07
APW-09-WG-2024[5]0115		GW			1350	5	X	X	X	X	X		08
APW-02-WG-2024[5]0115		GW			1045	5	X	X	X	X	X		09

Chain of Custody Page 1 of 2

Pace 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/hubfs/pas-standard-terms.pdf

SDG # 458164770

A115

Acctnum: **ERMSCMO**
Template: **T243415**
Prelogin: **P1122249**
PM: **206 - Jeff Carr**
PB:

Shipped Via: **FedEX Ground**

* 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:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If p... te/Time
	1/17/25	12:30		—	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 69	PH – 10BDH2631 TRC – 3327A333
	1/17/25	13:00			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 1.18.25 Time: 0900	Hold: Condition: NCF / OK
			Dewang		

Company Name/Address:	Billing Information:	Pres Chk
ERM - St. Louis, MO 1968 Craig Road, Suite 100 Saint Louis, MO 63146	**Accounts Payable Dept.** 1701 Golf Road, Suite 1-1000 Rolling Meadows, IL 60008-4242	

Chain of Custody Page 2 of 2

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
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Report to: **Randy Homburg**

Email To: Randy.Homburg@erm.com;Tim.Wilson@erm.co

Project Description: **Grand Tower Energy Center Groundwater 4Q24**

City/State Collected: Grand Tower, IL

Please Circle: PT MT CT ET (CT circled)

Phone: **314-682-3980**

Client Project # **0599247**

Lab Project # **ERMSCMO-0599247**

SDG # L1818436

Table #

Acctnum: **ERMSCMO**

Template: **T243415**

Prelogin: **P1122249**

PM: **206 - Jeff Carr**

PB:

Shipped Via: **FedEX Ground**

Collected by (print): Marshall Arendell

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ____ Y X

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Anions 125mlHDPE-NoPres	Dissolved Metals 250mlHDPE-NoPres	TDS 1L-HDPE NoPres	Total Metals 250mlHDPE-HNO3	pH 125mlHDPE-NoPres					Remarks	Sample # (lab only)
APW-01R-WG-2024 50115	Grab	GW		1/15/25	1250	5	X	X	X	X	X						-10
APW-04-WG-2024 50114		GW		1/14/25	1610	5	X	X	X	X	X						-11
EB-01-WG-2024 50114		GW		1/14/25	1100	5 4	X	~~X~~	X	X	X					No dissolved collected	-12
DUP-01-WG-2024 50115		GW		1/15/25	0001	5	X	X	X	X	X						-13
DUP-02-WG-2024 50115		GW		1/15/25	0002	5	X	X	X	X	X						-14

* 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:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
[signature]	1/17/25	12:30	[signature] ESCMO	
Relinquished by: (Signature) [signature]	1/17/25	13:00	Received by: (Signature)	Temp: °C Bottles Received: 69
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) DeyanG	Date: 1.18.25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

L#______________________

Fed Ex tracking #	Gun ID	Temperature
425709337279	EDA9	1.3 to.4=1.7
425709337327	EDA9	2.1 to.4=2.5
425709337280	EDA4	1.4 to.4=1.8

Demanh
Name

1.18.25
Date

4818476