ANALYTICAL REPORT

April 28, 2025

Pace Analytical Services, LLC
2025.04.29 22:16:27 -05'00'
Document is certified

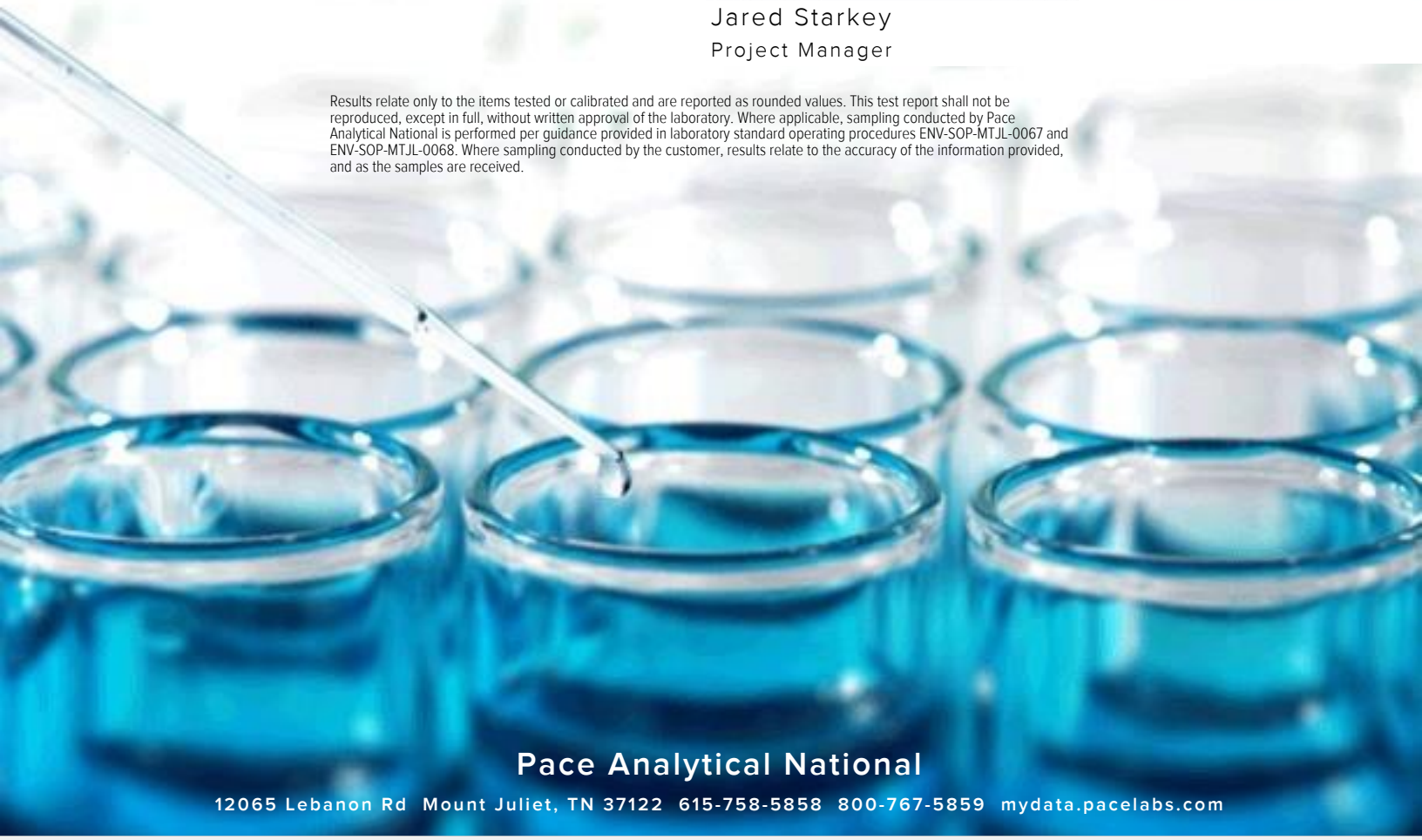
CTEH - ER

Sample Delivery Group:	L1849823
Samples Received:	04/19/2025
Project Number:	PROJ-054017
Description:	Bishop Loss of Containment Incident
Site:	CHEVRON GALETON, CO
Report To:	CTEH 5120 North Shore Drive North Little Rock, AR 72118

Entire Report Reviewed By:

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

TABLE OF CONTENTS

GACO0418W001 L1849823-01 GW

Collected by: Spencer Beghtol | Collected date/time: 04/18/25 11:19 | Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/21/25 00:42	04/21/25 00:42	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2495081	5	04/19/25 13:47	04/21/25 16:51	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 19:45	04/20/25 19:45	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	5	04/19/25 23:30	04/19/25 23:30	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	50	04/20/25 02:39	04/20/25 02:39	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2496147	5	04/21/25 18:16	04/21/25 18:16	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	2	04/19/25 16:06	04/20/25 15:44	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	3	04/21/25 00:42	04/21/25 00:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:06	04/20/25 14:52	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:03	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494246	1	04/24/25 15:52	04/24/25 15:52	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/19/25 19:42	04/19/25 19:42	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 13:38	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 11:42	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	5	04/19/25 10:51	04/20/25 15:22	UNP	Mt. Juliet, TN

GACO0418W002 L1849823-02 GW

Collected by: Spencer Beghtol | Collected date/time: 04/18/25 12:41 | Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/21/25 00:45	04/21/25 00:45	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2495081	5	04/19/25 13:47	04/21/25 16:52	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 19:54	04/20/25 19:54	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	5	04/19/25 23:43	04/19/25 23:43	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	50	04/20/25 02:52	04/20/25 02:52	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2496147	5	04/21/25 18:29	04/21/25 18:29	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	4	04/19/25 16:05	04/20/25 15:25	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	3	04/21/25 00:45	04/21/25 00:45	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:05	04/20/25 14:53	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:05	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494246	1	04/24/25 16:01	04/24/25 16:01	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/19/25 20:07	04/19/25 20:07	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 13:41	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 11:45	SJM	Mt. Juliet, TN

GACO0418W003 L1849823-03 GW

Collected by: Spencer Beghtol | Collected date/time: 04/18/25 13:43 | Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/21/25 00:47	04/21/25 00:47	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2495081	5	04/19/25 13:47	04/21/25 16:54	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 20:02	04/20/25 20:02	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	5	04/19/25 23:57	04/19/25 23:57	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	50	04/20/25 03:06	04/20/25 03:06	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2496147	5	04/21/25 18:42	04/21/25 18:42	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	2	04/19/25 16:05	04/20/25 15:27	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	5	04/21/25 00:47	04/21/25 00:47	CAT	Mt. Juliet, TN

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

GACO0418W003 L1849823-03 GW

Collected by: Spencer Beghtol
Collected date/time: 04/18/25 13:43
Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:05	04/20/25 14:54	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:05	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494246	1	04/24/25 16:11	04/24/25 16:11	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/19/25 22:58	04/19/25 22:58	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2499541	1	04/26/25 08:42	04/27/25 12:55	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 13:45	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 11:48	SJM	Mt. Juliet, TN

GACO0418W004 L1849823-04 GW

Collected by: Spencer Beghtol
Collected date/time: 04/18/25 11:51
Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/21/25 00:49	04/21/25 00:49	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2495081	5	04/19/25 13:47	04/21/25 16:55	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 20:10	04/20/25 20:10	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	5	04/20/25 00:10	04/20/25 00:10	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	50	04/20/25 03:19	04/20/25 03:19	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2496147	5	04/21/25 19:23	04/21/25 19:23	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	2	04/19/25 16:05	04/20/25 15:28	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	3	04/21/25 00:49	04/21/25 00:49	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:05	04/20/25 14:56	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:05	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494246	1	04/24/25 16:21	04/24/25 16:21	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/19/25 23:25	04/19/25 23:25	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 13:48	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 11:52	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	5	04/19/25 10:51	04/20/25 15:25	UNP	Mt. Juliet, TN

GACO0418W005 L1849823-05 GW

Collected by: Spencer Beghtol
Collected date/time: 04/18/25 11:08
Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/21/25 00:52	04/21/25 00:52	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2495081	5	04/19/25 13:47	04/21/25 16:56	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 20:18	04/20/25 20:18	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	5	04/20/25 00:24	04/20/25 00:24	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	50	04/20/25 03:33	04/20/25 03:33	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2496147	5	04/21/25 19:36	04/21/25 19:36	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	2	04/19/25 16:05	04/20/25 15:29	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	3	04/21/25 00:52	04/21/25 00:52	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:05	04/20/25 14:57	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:06	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494246	1	04/24/25 16:41	04/24/25 16:41	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/19/25 23:54	04/19/25 23:54	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 14:01	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 12:15	SJM	Mt. Juliet, TN

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

GACO0418W006 L1849823-06 GW

Collected by: Spencer Beghtol | Collected date/time: 04/18/25 14:13 | Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/21/25 01:06	04/21/25 01:06	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2495081	5	04/19/25 13:47	04/21/25 16:58	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 20:25	04/20/25 20:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	5	04/20/25 00:37	04/20/25 00:37	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	50	04/20/25 03:46	04/20/25 03:46	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2496147	5	04/21/25 19:49	04/21/25 19:49	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	2	04/19/25 16:05	04/20/25 15:30	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	3	04/21/25 01:06	04/21/25 01:06	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:05	04/20/25 14:58	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:07	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494984	1	04/24/25 22:28	04/24/25 22:28	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/20/25 00:19	04/20/25 00:19	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 14:05	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 12:19	SJM	Mt. Juliet, TN

GACO0418W002.5 L1849823-07 GW

Collected by: Spencer Beghtol | Collected date/time: 04/18/25 14:11 | Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/21/25 01:08	04/21/25 01:08	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2495081	5	04/19/25 13:47	04/21/25 16:59	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 20:33	04/20/25 20:33	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	5	04/20/25 00:51	04/20/25 00:51	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	50	04/20/25 04:00	04/20/25 04:00	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2496147	5	04/21/25 20:03	04/21/25 20:03	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	1	04/19/25 16:05	04/20/25 15:32	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	3	04/21/25 01:08	04/21/25 01:08	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:05	04/20/25 14:59	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:07	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494984	1	04/24/25 22:38	04/24/25 22:38	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/20/25 00:46	04/20/25 00:46	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 14:08	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 12:22	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	5	04/19/25 10:51	04/20/25 15:29	UNP	Mt. Juliet, TN

GACO0418W004.5 L1849823-08 GW

Collected by: Spencer Beghtol | Collected date/time: 04/18/25 13:03 | Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/21/25 01:10	04/21/25 01:10	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2495081	5	04/19/25 13:47	04/21/25 17:00	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 20:50	04/20/25 20:50	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	5	04/20/25 01:04	04/20/25 01:04	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	50	04/20/25 04:40	04/20/25 04:40	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2496147	5	04/21/25 20:16	04/21/25 20:16	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	1	04/19/25 16:05	04/20/25 15:33	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	2	04/21/25 01:10	04/21/25 01:10	CAT	Mt. Juliet, TN

GACO0418W004.5 L1849823-08 GW

Collected by: Spencer Beghtol
Collected date/time: 04/18/25 13:03
Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:05	04/20/25 15:01	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:08	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494984	1	04/24/25 22:57	04/24/25 22:57	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/20/25 01:14	04/20/25 01:14	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 14:11	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 12:25	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	5	04/19/25 10:51	04/20/25 15:32	UNP	Mt. Juliet, TN

GACO0418F001 L1849823-09 GW

Collected by: Spencer Beghtol
Collected date/time: 04/18/25 12:20
Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/21/25 01:13	04/21/25 01:13	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2497106	1	04/22/25 15:40	04/28/25 12:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 21:02	04/20/25 21:02	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494882	1	04/20/25 01:18	04/20/25 01:18	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2496147	1	04/21/25 20:30	04/21/25 20:30	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	1	04/19/25 16:05	04/20/25 15:38	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	1	04/21/25 01:13	04/21/25 01:13	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:05	04/20/25 15:39	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:09	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494984	1	04/24/25 23:07	04/24/25 23:07	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/20/25 01:32	04/20/25 01:32	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 14:14	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 12:28	SJM	Mt. Juliet, TN

GACO0418V001 L1849823-10 GW

Collected by: Spencer Beghtol
Collected date/time: 04/18/25 11:51
Received date/time: 04/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495087	1	04/20/25 15:41	04/20/25 15:41	DLH	Mt. Juliet, TN
Calculated Results	WG2495087	1	04/21/25 01:20	04/21/25 01:20	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2494975	1	04/19/25 10:35	04/19/25 16:22	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2494976	1	04/19/25 10:37	04/19/25 13:20	JAC	Mt. Juliet, TN
Wet Chemistry by Method 130.1	WG2497106	5	04/22/25 15:40	04/28/25 12:34	CAT	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2495709	1	04/20/25 21:05	04/20/25 21:05	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494916	5	04/19/25 16:24	04/19/25 16:24	DLH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2494916	50	04/19/25 16:38	04/19/25 16:38	DLH	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2494983	1	04/19/25 16:05	04/20/25 15:41	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2495087	3	04/21/25 01:20	04/21/25 01:20	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2495578	1	04/19/25 16:05	04/20/25 15:41	KMB	Mt. Juliet, TN
Wet Chemistry by Method 5540 C-2011	WG2494974	1	04/19/25 10:33	04/19/25 15:11	JEG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2494984	1	04/24/25 23:17	04/24/25 23:17	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2494924	1	04/20/25 01:59	04/20/25 01:59	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494979	1	04/19/25 10:50	04/19/25 13:25	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	1	04/19/25 10:51	04/20/25 11:29	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2494981	5	04/19/25 10:51	04/20/25 15:19	UNP	Mt. Juliet, TN

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

Jared Starkey
Project Manager

Project Comments

L1849823-01 through -09 - NITRATE - First run had a failing WG QC, and second is OOH, reporting both.

Sample Delivery Group (SDG) Narrative

Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG2496147	300.0	L1849823-01, 02, 03, 04, 05, 06, 07, 08, 09

Wet Chemistry by Method 130.1

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2495081	(MS) R4202866-3	Hardness (colorimetric) as CaCO3
WG2495081	(MSD) R4202866-4	Hardness (colorimetric) as CaCO3

Wet Chemistry by Method 300.0

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2494882	(MS) R4202580-6	Fluoride
WG2494882	(MSD) R4202580-7	Fluoride
WG2494916	(MS) R4202540-6	Sulfate
WG2494916	(MSD) R4202540-7	Sulfate

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

Batch	Lab Sample ID	Analytes
WG2494916	(DUP) R4202540-3, L1849823-10	Fluoride and Nitrite as (N)

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

Batch	Lab Sample ID	Analytes
WG2494882	L1849823-01, 02, 03, 04, 05, 06, 07, 08, 09	Nitrate as (N)

Wet Chemistry by Method 300.0

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

Batch	Lab Sample ID	Analytes
WG2494916	(MS) R4202540-6, (MSD) R4202540-7, L1849823-10	Bromide, Chloride, Fluoride and Nitrate as (N)

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

Batch	Lab Sample ID	Analytes
WG2494882	(MS) R4202580-4, (MS) R4202580-6, (MSD) R4202580-7	Nitrate as (N) and Nitrite as (N)

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2494916	(MS) R4202540-6, (MSD) R4202540-7	Sulfate

Wet Chemistry by Method 351.2

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

Batch	Lab Sample ID	Analytes
WG2494983	(MS) R4202281-5, (MSD) R4202281-6, L1849823-10	Kjeldahl Nitrogen, TKN

Wet Chemistry by Method 353.2

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

Batch	Lab Sample ID	Analytes
WG2495087	(MSD) R4202698-6, L1849823-09	Nitrate-Nitrite

Metals (ICPMS) by Method 200.8

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2499541	(MS) R4205819-4, (MSD) R4205819-5	Potassium

Metals (ICPMS) by Method 6020B

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2494981	(MS) R4202229-4, (MSD) R4202229-5	Calcium, Magnesium, Manganese and Sodium

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Total Nitrogen	6830		130	500	1	04/21/2025 00:42	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	2940000		50000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Suspended Solids	10900		283	2500	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hardness (colorimetric) as CaCO3	1440000		53000	150000	5	04/21/2025 16:51	WG2495081

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	349000		4750	20000	1	04/20/2025 19:45	WG2495709

Sample Narrative:

L1849823-01 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Bromide	U		3400	5000	5	04/19/2025 23:30	WG2494882
Chloride	117000		2740	5000	5	04/19/2025 23:30	WG2494882
Fluoride	1390		380	750	5	04/19/2025 23:30	WG2494882
Nitrate as (N)	7170	J4	442	500	5	04/19/2025 23:30	WG2494882
Nitrate as (N)	5710	Q	442	500	5	04/21/2025 18:16	WG2496147
Nitrite as (N)	U		397	500	5	04/19/2025 23:30	WG2494882
Sulfate	1630000		31800	250000	50	04/20/2025 02:39	WG2494882

Sample Narrative:

L1849823-01 WG2494882, WG2496147: Dilution due to matrix impact on instrumentation at lower dilution

L1849823-01 WG2494882, WG2496147: Duplicate Analysis performed due to QC failure. Results don't confirm; both analyses reported

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Kjeldahl Nitrogen, TKN	386	J	262	500	2	04/20/2025 15:44	WG2494983

Sample Narrative:

L1849823-01 WG2494983: Dilution due to matrix.

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	6440		130	600	3	04/21/2025 00:42	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Phosphorus,Total	70.4	J	64.2	100	1	04/20/2025 14:52	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MBAS	38.0	J	19.0	100	1	04/19/2025 15:03	WG2494974

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 15:52	WG2494246

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	12300		495	1000	1	04/19/2025 19:42	WG2494924

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 13:38	WG2494979
Calcium	261000		92.5	1000	1	04/20/2025 11:42	WG2494981
Copper,Dissolved	3.62	J	0.700	5.00	1	04/19/2025 13:38	WG2494979
Iron	255		22.6	100	1	04/20/2025 11:42	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 13:38	WG2494979
Magnesium	184000		82.7	1000	1	04/20/2025 11:42	WG2494981
Manganese	558		3.50	25.0	5	04/20/2025 15:22	WG2494981
Manganese,Dissolved	559		0.700	5.00	1	04/19/2025 13:38	WG2494979
Nickel,Dissolved	3.74		0.500	2.00	1	04/19/2025 13:38	WG2494979
Potassium	10300		96.5	2000	1	04/20/2025 11:42	WG2494981
Sodium	320000		142	2000	1	04/20/2025 11:42	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 13:38	WG2494979

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Total Nitrogen	9660		130	600	1	04/21/2025 00:45	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	2940000		50000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Suspended Solids	7800		283	2500	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hardness (colorimetric) as CaCO3	1430000		53000	150000	5	04/21/2025 16:52	WG2495081

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	351000		4750	20000	1	04/20/2025 19:54	WG2495709

Sample Narrative:

L1849823-02 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Bromide	U		3400	5000	5	04/19/2025 23:43	WG2494882
Chloride	115000		2740	5000	5	04/19/2025 23:43	WG2494882
Fluoride	1360		380	750	5	04/19/2025 23:43	WG2494882
Nitrate as (N)	8100	J4	442	500	5	04/19/2025 23:43	WG2494882
Nitrate as (N)	6400	Q	442	500	5	04/21/2025 18:29	WG2496147
Nitrite as (N)	U		397	500	5	04/19/2025 23:43	WG2494882
Sulfate	1610000		31800	250000	50	04/20/2025 02:52	WG2494882

Sample Narrative:

L1849823-02 WG2494882, WG2496147: Dilution due to matrix impact on instrumentation at lower dilution

L1849823-02 WG2494882, WG2496147: Duplicate Analysis performed due to QC failure. Results don't confirm; both analyses reported

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Kjeldahl Nitrogen, TKN	2090		524	1000	4	04/20/2025 15:25	WG2494983

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	7570		130	600	3	04/21/2025 00:45	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Phosphorus,Total	96.2	J	64.2	100	1	04/20/2025 14:53	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MBAS	31.0	J	19.0	100	1	04/19/2025 15:05	WG2494974

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 16:01	WG2494246

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	11500		495	1000	1	04/19/2025 20:07	WG2494924

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 13:41	WG2494979
Calcium	259000		92.5	1000	1	04/20/2025 11:45	WG2494981
Copper,Dissolved	3.64	J	0.700	5.00	1	04/19/2025 13:41	WG2494979
Iron	148		22.6	100	1	04/20/2025 11:45	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 13:41	WG2494979
Magnesium	179000		82.7	1000	1	04/20/2025 11:45	WG2494981
Manganese	416		0.700	5.00	1	04/20/2025 11:45	WG2494981
Manganese,Dissolved	391		0.700	5.00	1	04/19/2025 13:41	WG2494979
Nickel,Dissolved	3.50		0.500	2.00	1	04/19/2025 13:41	WG2494979
Potassium	10100		96.5	2000	1	04/20/2025 11:45	WG2494981
Sodium	329000		142	2000	1	04/20/2025 11:45	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 13:41	WG2494979

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Total Nitrogen	12200		218	500	1	04/21/2025 00:47	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	3240000		50000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Suspended Solids	16800		283	2500	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hardness (colorimetric) as CaCO3	1410000		53000	150000	5	04/21/2025 16:54	WG2495081

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	334000		4750	20000	1	04/20/2025 20:02	WG2495709

Sample Narrative:

L1849823-03 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Bromide	U		3400	5000	5	04/19/2025 23:57	WG2494882
Chloride	125000		2740	5000	5	04/19/2025 23:57	WG2494882
Fluoride	1480		380	750	5	04/19/2025 23:57	WG2494882
Nitrate as (N)	13100	J4	442	500	5	04/19/2025 23:57	WG2494882
Nitrate as (N)	11100	Q	442	500	5	04/21/2025 18:42	WG2496147
Nitrite as (N)	U		397	500	5	04/19/2025 23:57	WG2494882
Sulfate	1790000		31800	250000	50	04/20/2025 03:06	WG2494882

Sample Narrative:

L1849823-03 WG2494882, WG2496147: Dilution due to matrix impact on instrumentation at lower dilution

L1849823-03 WG2494882, WG2496147: Duplicate Analysis performed due to QC failure. Results don't confirm; both analyses reported

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Kjeldahl Nitrogen, TKN	U		262	500	2	04/20/2025 15:27	WG2494983

Sample Narrative:

L1849823-03 WG2494983: Dilution due to matrix.

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	12200		218	1000	5	04/21/2025 00:47	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	131		64.2	100	1	04/20/2025 14:54	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
MBAS	31.0	J	19.0	100	1	04/19/2025 15:05	WG2494974

Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 16:11	WG2494246

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6940		495	1000	1	04/19/2025 22:58	WG2494924

Metals (ICPMS) by Method 200.8

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	67.2	J	19.3	100	1	04/27/2025 12:55	WG2499541
Potassium	10000		115	1000	1	04/27/2025 12:55	WG2499541

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 13:45	WG2494979
Calcium	240000		92.5	1000	1	04/20/2025 11:48	WG2494981
Copper,Dissolved	3.99	J	0.700	5.00	1	04/19/2025 13:45	WG2494979
Iron	66.3	J	22.6	100	1	04/20/2025 11:48	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 13:45	WG2494979
Magnesium	186000		82.7	1000	1	04/20/2025 11:48	WG2494981
Manganese	146		0.700	5.00	1	04/20/2025 11:48	WG2494981
Manganese,Dissolved	144		0.700	5.00	1	04/19/2025 13:45	WG2494979
Nickel,Dissolved	2.29		0.500	2.00	1	04/19/2025 13:45	WG2494979
Potassium	10200		96.5	2000	1	04/20/2025 11:48	WG2494981
Sodium	424000		142	2000	1	04/20/2025 11:48	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 13:45	WG2494979

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Total Nitrogen	7190		130	500	1	04/21/2025 00:49	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	2920000		50000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Suspended Solids	9200		283	2500	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hardness (colorimetric) as CaCO3	1490000		53000	150000	5	04/21/2025 16:55	WG2495081

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	401000		4750	20000	1	04/20/2025 20:10	WG2495709

Sample Narrative:

L1849823-04 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Bromide	U		3400	5000	5	04/20/2025 00:10	WG2494882
Chloride	112000		2740	5000	5	04/20/2025 00:10	WG2494882
Fluoride	1160		380	750	5	04/20/2025 00:10	WG2494882
Nitrate as (N)	6320	J4	442	500	5	04/20/2025 00:10	WG2494882
Nitrate as (N)	4920	Q	442	500	5	04/21/2025 19:23	WG2496147
Nitrite as (N)	U		397	500	5	04/20/2025 00:10	WG2494882
Sulfate	1560000		31800	250000	50	04/20/2025 03:19	WG2494882

Sample Narrative:

L1849823-04 WG2494882, WG2496147: Dilution due to matrix impact on instrumentation at lower dilution

L1849823-04 WG2494882, WG2496147: Duplicate Analysis performed due to QC failure. Results don't confirm; both analyses reported

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Kjeldahl Nitrogen, TKN	1360		262	500	2	04/20/2025 15:28	WG2494983

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	5840		130	600	3	04/21/2025 00:49	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Phosphorus,Total	U		64.2	100	1	04/20/2025 14:56	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MBAS	29.0	J	19.0	100	1	04/19/2025 15:05	WG2494974

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 16:21	WG2494246

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	14000		495	1000	1	04/19/2025 23:25	WG2494924

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 13:48	WG2494979
Calcium	292000		92.5	1000	1	04/20/2025 11:52	WG2494981
Copper,Dissolved	3.59	J	0.700	5.00	1	04/19/2025 13:48	WG2494979
Iron	374		22.6	100	1	04/20/2025 11:52	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 13:48	WG2494979
Magnesium	174000		82.7	1000	1	04/20/2025 11:52	WG2494981
Manganese	1280		3.50	25.0	5	04/20/2025 15:25	WG2494981
Manganese,Dissolved	1270		0.700	5.00	1	04/19/2025 13:48	WG2494979
Nickel,Dissolved	5.40		0.500	2.00	1	04/19/2025 13:48	WG2494979
Potassium	11000		96.5	2000	1	04/20/2025 11:52	WG2494981
Sodium	291000		142	2000	1	04/20/2025 11:52	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 13:48	WG2494979

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Total Nitrogen	10200		130	500	1	04/21/2025 00:52	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	3310000		50000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Suspended Solids	19200		376	3330	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hardness (colorimetric) as CaCO3	1600000		53000	150000	5	04/21/2025 16:56	WG2495081

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	413000		4750	20000	1	04/20/2025 20:18	WG2495709

Sample Narrative:

L1849823-05 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Bromide	U		3400	5000	5	04/20/2025 00:24	WG2494882
Chloride	145000		2740	5000	5	04/20/2025 00:24	WG2494882
Fluoride	1170		380	750	5	04/20/2025 00:24	WG2494882
Nitrate as (N)	8070	J4	442	500	5	04/20/2025 00:24	WG2494882
Nitrate as (N)	6150	Q	442	500	5	04/21/2025 19:36	WG2496147
Nitrite as (N)	U		397	500	5	04/20/2025 00:24	WG2494882
Sulfate	1780000		31800	250000	50	04/20/2025 03:33	WG2494882

Sample Narrative:

L1849823-05 WG2494882, WG2496147: Dilution due to matrix impact on instrumentation at lower dilution

L1849823-05 WG2494882, WG2496147: Duplicate Analysis performed due to QC failure. Results don't confirm; both analyses reported

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Kjeldahl Nitrogen, TKN	2820		262	500	2	04/20/2025 15:29	WG2494983

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	7360		130	600	3	04/21/2025 00:52	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Phosphorus,Total	86.6	J	64.2	100	1	04/20/2025 14:57	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MBAS	36.0	J	19.0	100	1	04/19/2025 15:06	WG2494974

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 16:41	WG2494246

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	21400		495	1000	1	04/19/2025 23:54	WG2494924

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 14:01	WG2494979
Calcium	311000		92.5	1000	1	04/20/2025 12:15	WG2494981
Copper,Dissolved	2.46	J	0.700	5.00	1	04/19/2025 14:01	WG2494979
Iron	101		22.6	100	1	04/20/2025 12:15	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 14:01	WG2494979
Magnesium	195000		82.7	1000	1	04/20/2025 12:15	WG2494981
Manganese	289		0.700	5.00	1	04/20/2025 12:15	WG2494981
Manganese,Dissolved	296		0.700	5.00	1	04/19/2025 14:01	WG2494979
Nickel,Dissolved	6.77		0.500	2.00	1	04/19/2025 14:01	WG2494979
Potassium	14900		96.5	2000	1	04/20/2025 12:15	WG2494981
Sodium	354000		142	2000	1	04/20/2025 12:15	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 14:01	WG2494979

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Total Nitrogen	6480		130	500	1	04/21/2025 01:06	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	2660000		50000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Suspended Solids	26300		376	3330	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hardness (colorimetric) as CaCO3	1280000		53000	150000	5	04/21/2025 16:58	WG2495081

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	315000		4750	20000	1	04/20/2025 20:25	WG2495709

Sample Narrative:

L1849823-06 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Bromide	U		3400	5000	5	04/20/2025 00:37	WG2494882
Chloride	107000		2740	5000	5	04/20/2025 00:37	WG2494882
Fluoride	1230		380	750	5	04/20/2025 00:37	WG2494882
Nitrate as (N)	6330	J4	442	500	5	04/20/2025 00:37	WG2494882
Nitrate as (N)	5260	Q	442	500	5	04/21/2025 19:49	WG2496147
Nitrite as (N)	U		397	500	5	04/20/2025 00:37	WG2494882
Sulfate	1420000		31800	250000	50	04/20/2025 03:46	WG2494882

Sample Narrative:

L1849823-06 WG2494882, WG2496147: Dilution due to matrix impact on instrumentation at lower dilution

L1849823-06 WG2494882, WG2496147: Duplicate Analysis performed due to QC failure. Results don't confirm; both analyses reported

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Kjeldahl Nitrogen, TKN	768		262	500	2	04/20/2025 15:30	WG2494983

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	5710		130	600	3	04/21/2025 01:06	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Phosphorus,Total	97.8	J	64.2	100	1	04/20/2025 14:58	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MBAS	U		19.0	100	1	04/19/2025 15:07	WG2494974

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 22:28	WG2494984

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	10300		495	1000	1	04/20/2025 00:19	WG2494924

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 14:05	WG2494979
Calcium	239000		92.5	1000	1	04/20/2025 12:19	WG2494981
Copper,Dissolved	3.61	J	0.700	5.00	1	04/19/2025 14:05	WG2494979
Iron	211		22.6	100	1	04/20/2025 12:19	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 14:05	WG2494979
Magnesium	154000		82.7	1000	1	04/20/2025 12:19	WG2494981
Manganese	341		0.700	5.00	1	04/20/2025 12:19	WG2494981
Manganese,Dissolved	330		0.700	5.00	1	04/19/2025 14:05	WG2494979
Nickel,Dissolved	3.30		0.500	2.00	1	04/19/2025 14:05	WG2494979
Potassium	11000		96.5	2000	1	04/20/2025 12:19	WG2494981
Sodium	294000		142	2000	1	04/20/2025 12:19	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 14:05	WG2494979

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Total Nitrogen	6530		130	250	1	04/21/2025 01:08	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	2810000		50000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Suspended Solids	7200		283	2500	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hardness (colorimetric) as CaCO3	1380000		53000	150000	5	04/21/2025 16:59	WG2495081

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	346000		4750	20000	1	04/20/2025 20:33	WG2495709

Sample Narrative:

L1849823-07 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Bromide	U		3400	5000	5	04/20/2025 00:51	WG2494882
Chloride	109000		2740	5000	5	04/20/2025 00:51	WG2494882
Fluoride	1210		380	750	5	04/20/2025 00:51	WG2494882
Nitrate as (N)	6400	J4	442	500	5	04/20/2025 00:51	WG2494882
Nitrate as (N)	5230	Q	442	500	5	04/21/2025 20:03	WG2496147
Nitrite as (N)	U		397	500	5	04/20/2025 00:51	WG2494882
Sulfate	1540000		31800	250000	50	04/20/2025 04:00	WG2494882

Sample Narrative:

L1849823-07 WG2494882, WG2496147: Dilution due to matrix impact on instrumentation at lower dilution

L1849823-07 WG2494882, WG2496147: Duplicate Analysis performed due to QC failure. Results don't confirm; both analyses reported

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Kjeldahl Nitrogen, TKN	549		131	250	1	04/20/2025 15:32	WG2494983

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	5980		130	600	3	04/21/2025 01:08	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Phosphorus,Total	102		64.2	100	1	04/20/2025 14:59	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MBAS	31.0	J	19.0	100	1	04/19/2025 15:07	WG2494974

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 22:38	WG2494984

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	12800		495	1000	1	04/20/2025 00:46	WG2494924

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 14:08	WG2494979
Calcium	265000		92.5	1000	1	04/20/2025 12:22	WG2494981
Copper,Dissolved	3.47	J	0.700	5.00	1	04/19/2025 14:08	WG2494979
Iron	143		22.6	100	1	04/20/2025 12:22	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 14:08	WG2494979
Magnesium	179000		82.7	1000	1	04/20/2025 12:22	WG2494981
Manganese	449		3.50	25.0	5	04/20/2025 15:29	WG2494981
Manganese,Dissolved	431		0.700	5.00	1	04/19/2025 14:08	WG2494979
Nickel,Dissolved	3.96		0.500	2.00	1	04/19/2025 14:08	WG2494979
Potassium	10100		96.5	2000	1	04/20/2025 12:22	WG2494981
Sodium	285000		142	2000	1	04/20/2025 12:22	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 14:08	WG2494979

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Total Nitrogen	6540		87.0	250	1	04/21/2025 01:10	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	3100000		50000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Suspended Solids	85400		464	4100	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hardness (colorimetric) as CaCO3	1570000		53000	150000	5	04/21/2025 17:00	WG2495081

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	414000		4750	20000	1	04/20/2025 20:50	WG2495709

Sample Narrative:

L1849823-08 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Bromide	U		3400	5000	5	04/20/2025 01:04	WG2494882
Chloride	129000		2740	5000	5	04/20/2025 01:04	WG2494882
Fluoride	1020		380	750	5	04/20/2025 01:04	WG2494882
Nitrate as (N)	4810	J4	442	500	5	04/20/2025 01:04	WG2494882
Nitrate as (N)	3680	Q	442	500	5	04/21/2025 20:16	WG2496147
Nitrite as (N)	U		397	500	5	04/20/2025 01:04	WG2494882
Sulfate	1700000		31800	250000	50	04/20/2025 04:40	WG2494882

Sample Narrative:

L1849823-08 WG2494882, WG2496147: Dilution due to matrix impact on instrumentation at lower dilution

L1849823-08 WG2494882, WG2496147: Duplicate Analysis performed due to QC failure. Results don't confirm; both analyses reported

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Kjeldahl Nitrogen, TKN	2190		131	250	1	04/20/2025 15:33	WG2494983

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	4350		87.0	400	2	04/21/2025 01:10	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Phosphorus,Total	153		64.2	100	1	04/20/2025 15:01	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MBAS	32.0	J	19.0	100	1	04/19/2025 15:08	WG2494974

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 22:57	WG2494984

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	16500		495	1000	1	04/20/2025 01:14	WG2494924

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 14:11	WG2494979
Calcium	310000		92.5	1000	1	04/20/2025 12:25	WG2494981
Copper,Dissolved	4.45	J	0.700	5.00	1	04/19/2025 14:11	WG2494979
Iron	903		22.6	100	1	04/20/2025 12:25	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 14:11	WG2494979
Magnesium	189000		82.7	1000	1	04/20/2025 12:25	WG2494981
Manganese	719		3.50	25.0	5	04/20/2025 15:32	WG2494981
Manganese,Dissolved	666		0.700	5.00	1	04/19/2025 14:11	WG2494979
Nickel,Dissolved	6.70		0.500	2.00	1	04/19/2025 14:11	WG2494979
Potassium	11900		96.5	2000	1	04/20/2025 12:25	WG2494981
Sodium	334000		142	2000	1	04/20/2025 12:25	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 14:11	WG2494979

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Total Nitrogen	U		43.5	200	1	04/21/2025 01:13	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	10000		10000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Suspended Solids	U		283	2500	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hardness (colorimetric) as CaCO3	U		10600	30000	1	04/28/2025 12:30	WG2497106

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	U		4750	20000	1	04/20/2025 21:02	WG2495709

Sample Narrative:

L1849823-09 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Bromide	U		680	1000	1	04/20/2025 01:18	WG2494882
Chloride	U		547	1000	1	04/20/2025 01:18	WG2494882
Fluoride	U		76.1	150	1	04/20/2025 01:18	WG2494882
Nitrate as (N)	U	J4	88.4	100	1	04/20/2025 01:18	WG2494882
Nitrate as (N)	U	Q	88.4	100	1	04/21/2025 20:30	WG2496147
Nitrite as (N)	U		79.4	100	1	04/20/2025 01:18	WG2494882
Sulfate	908	J	637	5000	1	04/20/2025 01:18	WG2494882

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Kjeldahl Nitrogen, TKN	U		131	250	1	04/20/2025 15:38	WG2494983

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U	J5	43.5	200	1	04/21/2025 01:13	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Phosphorus,Total	U		64.2	100	1	04/20/2025 15:39	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MBAS	U		19.0	100	1	04/19/2025 15:09	WG2494974

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 23:07	WG2494984

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	U		495	1000	1	04/20/2025 01:32	WG2494924

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 14:14	WG2494979
Calcium	U		92.5	1000	1	04/20/2025 12:28	WG2494981
Copper,Dissolved	U		0.700	5.00	1	04/19/2025 14:14	WG2494979
Iron	U		22.6	100	1	04/20/2025 12:28	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 14:14	WG2494979
Magnesium	U		82.7	1000	1	04/20/2025 12:28	WG2494981
Manganese	0.728	J	0.700	5.00	1	04/20/2025 12:28	WG2494981
Manganese,Dissolved	0.739	J	0.700	5.00	1	04/19/2025 14:14	WG2494979
Nickel,Dissolved	U		0.500	2.00	1	04/19/2025 14:14	WG2494979
Potassium	U		96.5	2000	1	04/20/2025 12:28	WG2494981
Sodium	188	J	142	2000	1	04/20/2025 12:28	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 14:14	WG2494979

Calculated Results

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Total Nitrogen	8020		130	250	1	04/21/2025 01:20	WG2495087
Total Nitrogen	8650		131	250	1	04/20/2025 15:41	WG2495087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2960000		50000	1	04/19/2025 16:22	WG2494975

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Suspended Solids	8600		283	2500	1	04/19/2025 13:20	WG2494976

Wet Chemistry by Method 130.1

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hardness (colorimetric) as CaCO3	1460000		53000	150000	5	04/28/2025 12:34	WG2497106

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	395000		4750	20000	1	04/20/2025 21:05	WG2495709

Sample Narrative:

L1849823-10 WG2495709: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Bromide	U	J6	3400	5000	5	04/19/2025 16:24	WG2494916
Chloride	109000	J6	2740	5000	5	04/19/2025 16:24	WG2494916
Fluoride	1690	J6 P1	380	750	5	04/19/2025 16:24	WG2494916
Nitrate as (N)	6000	J6	442	500	5	04/19/2025 16:24	WG2494916
Nitrite as (N)	583	P1	397	500	5	04/19/2025 16:24	WG2494916
Sulfate	1560000		31800	250000	50	04/19/2025 16:38	WG2494916

Sample Narrative:

L1849823-10 WG2494916: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method 351.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	2070	J5	131	250	1	04/20/2025 15:41	WG2494983

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	5950		130	600	3	04/21/2025 01:20	WG2495087

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Phosphorus,Total	171		64.2	100	1	04/20/2025 15:41	WG2495578

Wet Chemistry by Method 5540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MBAS	65.0	J	19.0	100	1	04/19/2025 15:11	WG2494974

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.100	5.00	1	04/24/2025 23:17	WG2494984

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	14100		495	1000	1	04/20/2025 01:59	WG2494924

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cadmium,Dissolved	U		0.120	1.00	1	04/19/2025 13:25	WG2494979
Calcium	294000		92.5	1000	1	04/20/2025 11:29	WG2494981
Copper,Dissolved	3.71	J	0.700	5.00	1	04/19/2025 13:25	WG2494979
Iron	328		22.6	100	1	04/20/2025 11:29	WG2494981
Lead,Dissolved	U		0.500	2.00	1	04/19/2025 13:25	WG2494979
Magnesium	173000		82.7	1000	1	04/20/2025 11:29	WG2494981
Manganese	1240		3.50	25.0	5	04/20/2025 15:19	WG2494981
Manganese,Dissolved	1250		0.700	5.00	1	04/19/2025 13:25	WG2494979
Nickel,Dissolved	5.43		0.500	2.00	1	04/19/2025 13:25	WG2494979
Potassium	11100		96.5	2000	1	04/20/2025 11:29	WG2494981
Sodium	291000		142	2000	1	04/20/2025 11:29	WG2494981
Zinc,Dissolved	U		4.00	25.0	1	04/19/2025 13:25	WG2494979

Method Blank (MB)

(MB) R4202751-1 04/19/25 16:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1849096-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1849096-21 04/19/25 16:22 • (DUP) R4202751-3 04/19/25 16:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	8300000	8680000	1	4.48		10

L1849096-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1849096-25 04/19/25 16:22 • (DUP) R4202751-4 04/19/25 16:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	8480000	8860000	1	4.38		10

Laboratory Control Sample (LCS)

(LCS) R4202751-2 04/19/25 16:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8500000	96.6	90.0-110	

Method Blank (MB)

(MB) R4202397-1 04/19/25 13:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Suspended Solids	U		283	2500

L1849587-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1849587-01 04/19/25 13:20 • (DUP) R4202397-3 04/19/25 13:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Suspended Solids	45500	44000	1	3.35		10

L1849867-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1849867-01 04/19/25 13:20 • (DUP) R4202397-4 04/19/25 13:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Suspended Solids	262000	268000	1	2.26		10

Laboratory Control Sample (LCS)

(LCS) R4202397-2 04/19/25 13:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Suspended Solids	773000	826000	107	85.0-115	

Method Blank (MB)

(MB) R4202866-1 04/21/25 16:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hardness (colorimetric) as CaCO3	U		10600	30000

Laboratory Control Sample (LCS)

(LCS) R4202866-2 04/21/25 16:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hardness (colorimetric) as CaCO3	200000	195000	97.5	85.0-115	

L1849540-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849540-01 04/21/25 16:37 • (MS) R4202866-3 04/21/25 16:38 • (MSD) R4202866-4 04/21/25 16:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hardness (colorimetric) as CaCO3	1000000	1450000	2430000	2460000	98.0	101	5	80.0-120	E	E	1.23	20

QUALITY CONTROL SUMMARY

L1849823-09,10

Method Blank (MB)

(MB) R4206306-1 04/28/25 12:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hardness (colorimetric) as CaCO3	U		10600	30000

Laboratory Control Sample (LCS)

(LCS) R4206306-2 04/28/25 12:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hardness (colorimetric) as CaCO3	200000	201000	101	85.0-115	

L1849823-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849823-09 04/28/25 12:30 • (MS) R4206306-3 04/28/25 12:31 • (MSD) R4206306-4 04/28/25 12:32

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hardness (colorimetric) as CaCO3	200000	U	190000	193000	95.0	96.5	1	80.0-120			1.57	20

Method Blank (MB)

(MB) R4202486-2 04/20/25 18:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		4750	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1848930-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1848930-01 04/20/25 18:29 • (DUP) R4202486-3 04/20/25 18:38

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	299000	296000	1	0.766		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1849823-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1849823-08 04/20/25 20:50 • (DUP) R4202486-4 04/20/25 20:56

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	414000	417000	1	0.627		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4202486-1 04/20/25 18:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	97300	97.3	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4202580-1 04/19/25 19:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Bromide	U		680	1000
Chloride	U		547	1000
Fluoride	U		76.1	150
Nitrate as (N)	U		88.4	100
Nitrite as (N)	U		79.4	100
Sulfate	U		637	5000

L1849807-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1849807-01 04/19/25 20:07 • (DUP) R4202580-3 04/19/25 20:21

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	U	U	1	0.000		15
Chloride	820	784	1	4.54	J	15
Fluoride	415	410	1	1.16		15
Nitrate as (N)	747	753	1	0.800		15
Nitrite as (N)	U	U	1	0.000		15
Sulfate	2550	2600	1	2.16	J	15

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

L1849813-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1849813-08 04/19/25 22:36 • (DUP) R4202580-5 04/19/25 22:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	U	U	1	0.000		15
Chloride	6050	6020	1	0.406		15
Fluoride	1750	1770	1	1.57		15
Nitrate as (N)	U	U	1	0.000		15
Nitrite as (N)	U	U	1	0.000		15
Sulfate	8510	8620	1	1.29		15

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Laboratory Control Sample (LCS)

(LCS) R4202580-2 04/19/25 19:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	40000	43900	110	90.0-110	
Chloride	40000	40600	102	90.0-110	
Fluoride	8000	8450	106	90.0-110	
Nitrate as (N)	8000	8930	112	90.0-110	
Nitrite as (N)	8000	8670	108	90.0-110	
Sulfate	40000	42700	107	90.0-110	

L1849807-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1849807-01 04/19/25 20:07 • (MS) R4202580-4 04/19/25 20:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Bromide	40000	U	43600	109	1	90.0-110	
Chloride	40000	820	40700	99.8	1	90.0-110	
Fluoride	8000	415	9190	110	1	90.0-110	
Nitrate as (N)	8000	747	9610	111	1	90.0-110	J5
Nitrite as (N)	8000	U	8790	110	1	90.0-110	
Sulfate	40000	2550	45100	106	1	90.0-110	

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

L1849813-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849813-08 04/19/25 22:36 • (MS) R4202580-6 04/19/25 23:03 • (MSD) R4202580-7 04/19/25 23:16

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromide	40000	U	42800	42400	107	106	1	90.0-110			0.994	15
Chloride	40000	6050	45500	45000	98.6	97.4	1	90.0-110			1.01	15
Fluoride	8000	1750	10200	10100	106	105	1	90.0-110	E	E	0.938	15
Nitrate as (N)	8000	U	9050	8950	113	112	1	90.0-110	J5	J5	1.09	15
Nitrite as (N)	8000	U	8920	8840	111	110	1	90.0-110	J5		0.901	15
Sulfate	40000	8510	50000	49500	104	102	1	90.0-110			1.03	15

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Method Blank (MB)

(MB) R4202540-1 04/19/25 15:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Bromide	U		680	1000
Chloride	U		547	1000
Fluoride	U		76.1	150
Nitrate as (N)	U		88.4	100
Nitrite as (N)	U		79.4	100
Sulfate	U		637	5000

L1849823-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1849823-10 04/19/25 16:24 • (DUP) R4202540-3 04/19/25 16:51

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	U	U	5	0.000		15
Chloride	109000	107000	5	1.65		15
Fluoride	1690	1100	5	42.5	P1	15
Nitrate as (N)	6000	5520	5	8.24		15
Nitrite as (N)	583	U	5	200	P1	15

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

L1849823-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1849823-10 04/19/25 16:38 • (DUP) R4202540-4 04/19/25 17:04

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	1560000	1520000	50	2.38		15

Laboratory Control Sample (LCS)

(LCS) R4202540-2 04/19/25 16:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	40000	41900	105	90.0-110	
Chloride	40000	40700	102	90.0-110	
Fluoride	8000	8280	104	90.0-110	
Nitrate as (N)	8000	8690	109	90.0-110	

Laboratory Control Sample (LCS)

(LCS) R4202540-2 04/19/25 16:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrite as (N)	8000	8180	102	90.0-110	
Sulfate	40000	43100	108	90.0-110	

L1849823-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849823-10 04/19/25 16:24 • (MS) R4202540-6 04/19/25 22:06 • (MSD) R4202540-7 04/19/25 22:21

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromide	40000	U	32400	32900	81.0	82.1	5	90.0-110	J6	J6	1.45	15
Chloride	40000	109000	120000	123000	27.0	34.8	5	90.0-110	J6	J6	2.58	15
Fluoride	8000	1690	8300	9200	82.6	93.8	5	90.0-110	J6		10.3	15
Nitrate as (N)	8000	6000	12300	12600	79.3	82.9	5	90.0-110	J6	J6	2.31	15
Nitrite as (N)	8000	583	8000	8200	92.7	95.3	5	90.0-110			2.55	15
Sulfate	40000	1560000	1230000	1260000	0.000	0.000	5	90.0-110	E V	E V	2.20	15

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

Method Blank (MB)

(MB) R4203186-1 04/21/25 15:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Nitrate as (N)	U		88.4	100

L1849807-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1849807-01 04/21/25 15:48 • (DUP) R4203186-3 04/21/25 16:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate as (N)	853	742	1	13.9		15

L1849813-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1849813-08 04/21/25 17:22 • (DUP) R4203186-5 04/21/25 17:35

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate as (N)	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4203186-2 04/21/25 15:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate as (N)	8000	8140	102	90.0-110	

L1849807-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1849807-01 04/21/25 15:48 • (MS) R4203186-4 04/21/25 16:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate as (N)	8000	853	9030	102	1	90.0-110	

L1849813-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849813-08 04/21/25 17:22 • (MS) R4203186-6 04/21/25 17:49 • (MSD) R4203186-7 04/21/25 18:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate as (N)	8000	U	8480	8390	106	105	1	90.0-110			0.969	15

QUALITY CONTROL SUMMARY

L1849823-01,02,03,04,05,06,07,08,09,10

Method Blank (MB)

(MB) R4202281-1 04/20/25 15:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Kjeldahl Nitrogen, TKN	U		131	250

L1849823-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1849823-08 04/20/25 15:33 • (DUP) R4202281-3 04/20/25 15:37

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	2190	2180	1	0.458		20

L1849823-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1849823-09 04/20/25 15:38 • (DUP) R4202281-4 04/20/25 15:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4202281-2 04/20/25 15:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	6000	6050	101	90.0-110	

L1849823-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849823-10 04/20/25 15:41 • (MS) R4202281-5 04/20/25 15:42 • (MSD) R4202281-6 04/20/25 15:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5000	2070	8530	8950	129	138	1	90.0-110	J5	J5	4.81	20

Method Blank (MB)

(MB) R4202698-1 04/20/25 23:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Nitrate-Nitrite	U		43.5	200

Laboratory Control Sample (LCS)

(LCS) R4202698-2 04/20/25 23:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2500	2550	102	90.0-110	

L1848102-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848102-01 04/21/25 00:07 • (MS) R4202698-3 04/21/25 00:10 • (MSD) R4202698-4 04/21/25 00:12

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2500	64.0	2800	2780	109	109	1	90.0-110			0.717	20

L1849823-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849823-09 04/21/25 01:13 • (MS) R4202698-5 04/21/25 01:15 • (MSD) R4202698-6 04/21/25 01:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2500	U	2750	2830	110	113	1	90.0-110		J5	2.69	20

Method Blank (MB)

(MB) R4202285-1 04/20/25 14:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Phosphorus,Total	U		64.2	100

L1849823-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1849823-08 04/20/25 15:01 • (DUP) R4202285-3 04/20/25 15:38

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	153	166	1	8.15		20

L1849823-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1849823-09 04/20/25 15:39 • (DUP) R4202285-4 04/20/25 15:40

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4202285-2 04/20/25 14:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	1660	1620	97.7	85.0-115	

L1849823-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849823-10 04/20/25 15:41 • (MS) R4202285-5 04/20/25 15:43 • (MSD) R4202285-6 04/20/25 15:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	2500	171	2660	2550	99.6	95.2	1	90.0-110			4.22	20

Method Blank (MB)

(MB) R4202082-1 04/19/25 14:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
MBAS	U		19.0	100

L1849823-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1849823-01 04/19/25 15:03 • (DUP) R4202082-3 04/19/25 15:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
MBAS	38.0	41.0	1	7.59	J	20

Laboratory Control Sample (LCS)

(LCS) R4202082-2 04/19/25 14:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
MBAS	1000	1070	107	85.0-115	

L1849823-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849823-09 04/19/25 15:09 • (MS) R4202082-4 04/19/25 15:10 • (MSD) R4202082-5 04/19/25 15:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
MBAS	1000	U	1100	1100	110	110	1	85.0-115			0.182	20

QUALITY CONTROL SUMMARY

L1849823-01,02,03,04,05

Method Blank (MB)

(MB) R4204776-1 04/24/25 11:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexavalent Chromium	U		0.100	5.00

L1849461-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1849461-02 04/24/25 13:44 • (DUP) R4204776-7 04/24/25 13:54

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

L1849540-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1849540-07 04/24/25 14:53 • (DUP) R4204776-8 04/24/25 15:03

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4204776-2 04/24/25 11:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	2.00	2.03	102	90.0-110	J

L1849823-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1849823-04 04/24/25 16:21 • (MS) R4204776-9 04/24/25 16:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	50.0	U	49.4	98.7	1	90.0-110	

QUALITY CONTROL SUMMARY

L1849823-06,07,08,09,10

Method Blank (MB)

(MB) R4204943-1 04/24/25 22:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexavalent Chromium	U		0.100	5.00

L1849823-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1849823-07 04/24/25 22:38 • (DUP) R4204943-3 04/24/25 22:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

L1850131-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1850131-08 04/25/25 09:00 • (DUP) R4204943-6 04/25/25 01:24

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4204943-2 04/24/25 22:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	2.00	2.02	101	90.0-110	J

L1850131-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850131-05 04/25/25 00:25 • (MS) R4204943-4 04/25/25 00:35 • (MSD) R4204943-5 04/25/25 00:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	50.0	U	51.0	50.0	102	100	1	90.0-110			2.10	20

L1850321-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1850321-01 04/25/25 02:13 • (MS) R4204943-7 04/25/25 02:23

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	50.0	0.302	50.9	101	1	90.0-110	

Method Blank (MB)

(MB) R4202236-2 04/19/25 14:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	U		495	1000

L1849024-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1849024-07 04/19/25 16:46 • (DUP) R4202236-5 04/19/25 17:07

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1820	1860	1	2.12		20

L1849298-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1849298-03 04/19/25 22:18 • (DUP) R4202236-8 04/19/25 22:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4202236-1 04/19/25 14:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	26200	105	85.0-115	

L1849024-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849024-03 04/19/25 15:36 • (MS) R4202236-3 04/19/25 16:01 • (MSD) R4202236-4 04/19/25 16:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	U	26600	28200	106	113	1	85.0-115			5.73	20

L1849298-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849298-02 04/19/25 21:08 • (MS) R4202236-6 04/19/25 21:34 • (MSD) R4202236-7 04/19/25 22:00

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	U	25100	24700	101	98.8	1	85.0-115			1.77	20

QUALITY CONTROL SUMMARY

L1849823-03

Method Blank (MB)

(MB) R4205819-1 04/27/25 11:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	U		19.3	100
Potassium	U		115	1000

Laboratory Control Sample (LCS)

(LCS) R4205819-2 04/27/25 11:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	1040	104	85.0-115	
Potassium	5000	5040	101	85.0-115	

L1849672-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849672-01 04/27/25 11:59 • (MS) R4205819-4 04/27/25 12:05 • (MSD) R4205819-5 04/27/25 12:08

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	1260	2310	2300	104	104	1	70.0-130			0.273	20
Potassium	5000	463000	472000	467000	175	68.9	1	70.0-130	V	V	1.14	20

Method Blank (MB)

(MB) R4202184-1 04/19/25 13:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Cadmium,Dissolved	U		0.120	1.00
Copper,Dissolved	U		0.700	5.00
Lead,Dissolved	U		0.500	2.00
Manganese,Dissolved	U		0.700	5.00
Nickel,Dissolved	U		0.500	2.00
Zinc,Dissolved	U		4.00	25.0

Laboratory Control Sample (LCS)

(LCS) R4202184-2 04/19/25 13:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cadmium,Dissolved	50.0	51.5	103	80.0-120	
Copper,Dissolved	50.0	50.8	102	80.0-120	
Lead,Dissolved	50.0	49.1	98.2	80.0-120	
Manganese,Dissolved	50.0	49.3	98.6	80.0-120	
Nickel,Dissolved	50.0	52.0	104	80.0-120	
Zinc,Dissolved	50.0	49.8	99.6	80.0-120	

L1849823-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849823-10 04/19/25 13:25 • (MS) R4202184-4 04/19/25 13:32 • (MSD) R4202184-5 04/19/25 13:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cadmium,Dissolved	50.0	U	51.3	50.5	103	101	1	75.0-125			1.55	20
Copper,Dissolved	50.0	3.71	53.2	51.6	99.1	95.8	1	75.0-125			3.14	20
Lead,Dissolved	50.0	U	49.2	49.5	98.3	99.0	1	75.0-125			0.640	20
Manganese,Dissolved	50.0	1250	1290	1290	90.0	83.5	1	75.0-125			0.250	20
Nickel,Dissolved	50.0	5.43	54.9	55.4	99.0	100	1	75.0-125			0.903	20
Zinc,Dissolved	50.0	U	50.7	47.9	101	95.9	1	75.0-125			5.54	20

QUALITY CONTROL SUMMARY

L1849823-01,02,03,04,05,06,07,08,09,10

Method Blank (MB)

(MB) R4202229-1 04/20/25 11:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Calcium	U		92.5	1000
Iron	U		22.6	100
Magnesium	U		82.7	1000
Manganese	U		0.700	5.00
Potassium	U		96.5	2000
Sodium	U		142	2000

Laboratory Control Sample (LCS)

(LCS) R4202229-2 04/20/25 11:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5000	4970	99.4	80.0-120	
Iron	1000	988	98.8	80.0-120	
Magnesium	5000	5060	101	80.0-120	
Manganese	50.0	50.8	102	80.0-120	
Potassium	5000	5030	101	80.0-120	
Sodium	5000	5040	101	80.0-120	

L1849823-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849823-10 04/20/25 11:29 • (MS) R4202229-4 04/20/25 11:36 • (MSD) R4202229-5 04/20/25 11:39

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	5000	294000	293000	294000	0.000	11.9	1	75.0-125	V	V	0.417	20
Iron	1000	328	1270	1260	94.2	93.0	1	75.0-125			0.945	20
Magnesium	5000	173000	182000	180000	175	148	1	75.0-125	V	V	0.748	20
Manganese	50.0	1270	1290	1280	36.0	26.1	1	75.0-125	V	V	0.383	20
Potassium	5000	11100	15800	15700	93.7	91.6	1	75.0-125			0.675	20
Sodium	5000	291000	293000	290000	37.2	0.000	1	75.0-125	V	V	1.16	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.
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.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
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:
CTEH - ER

5120 North Shore Drive
North Little Rock, AR 72118

Billing Information:
Accounts Payable
10700 Prairie Lakes Drive
Eden Prairie, MN 55344

Pres Chk

Report to:
CTEH 501-801-8500

Email To:
labresults@cteh.com;ahenault@cteh.com;kylel

Project Description:
Bishop Loss of Containment Incident

City/State Collected: **Golden, CO**

Please Circle: PT (MT) CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
PROJ-054017

Lab Project #
CTEHER-054017

Collected by (print):
Spencer Beghtol

Site/Facility ID #
Chevron Golden,CO

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*Anions / Alkalinity 250mlHDPE-NoPres	CR6ICFFP 50mlTube/plungerPres	Cations / Hardness 250mlHDPE-HNO3	Diss. Metals 200.8 250mlHDPE HNO3	MBAS 500mlHDPE-NoPres	PT, TKN 250mlHDPE-H2SO4	RA-226,RA-228,KPA-U 1L-HDPE-Add-HNO3	TDS 1L-HDPE NoPres	TOC 250mlAmb-HCl	TSS 1L-HDPE NoPres	Remarks	Sample # (lab only)
GACO0418W001	G	GWSW	—	4/18/25	1119	9	X	X	X	X	X	X	1	X	X	X		-01
GACO0418W002	G	GWSW	—	4/18/25	1241	9	X	X	X	X	X	X	1	X	X	X		-02
GACO0418W003	G	GWSW	—	4/18/25	1343	9	X	X	X	X	X	X	1	X	X	X		-03
GACO0418W004	G	GWSW	—	4/18/25	1151	9	X	X	X	X	X	X	1	X	X	X		-04
GACO0418W005	G	GWSW	—	4/18/25	1108	9	X	X	X	X	X	X	1	X	X	X		-05
GACO0418W006	G	GWSW	—	4/18/25	1413	9	X	X	X	X	X	X	1	X	X	X		-06
GACO0418W002.5	G	GWSW	—	4/18/25	1411	9	X	X	X	X	X	X	1	X	X	X		-07
GACO0418W004.5	G	GWSW	—	4/18/25	1303	9	X	X	X	X	X	X	1	X	X	X		-08
GACO0418F001	G	GWSW	—	4/18/25	1220	9	X	X	X	X	X	X	1	X	X	X		-09
GACO0418V001	G	GWSW	—	4/18/25	1151	9	X	X	X	X	X	X	1	X	X	X		-10

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

Remarks: Trip Blanks GACO0418T001 thru GACO0418T006

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
CTEH	4/18/25	16:31	
	4-18-25	18:00	SWA
			Received for lab by: (Signature) CRogers

Trip Blank Received: Yes / No (HCl / MeoH) TBR

Temp: °C Bottles Received: 90

Date: 04.19.25 Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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

Chain of Custody Page 1 of 1

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 # L849823
F062

Acctnum: **CTEHER**
Template: **T271979**
Prelogin: **P1144451**
PM: **546 - Jared Starkey**
PB:
Shipped Via:

Multiple Parcel Form

L# LF649823

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
	2UP1	2.2	+0.4	2.6	Yes / No / Not Present
		1.0		1.4	Yes / No / Not Present
		1.1		1.5	Yes / No / Not Present
		1.7		2.1	Yes / No / Not Present
		0.9		1.3	Yes / No / Not Present
		1.0		1.4	Yes / No / Not Present
		0.5		0.9	Yes / No / Not Present
		0.9		1.3	Yes / No / Not Present
		2.0		2.4	Yes / No / Not Present
		3.3		3.7	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

amk
Name

4/19/25
Date