

Civitas - CO

Sample Delivery Group: L1881245
Samples Received: 07/23/2025
Project Number: 23735
Description: Alcorn 1

Report To: Civitas-Tasman
4725 Independence
Suite 100
Wheat Ridge, CO 80033

Entire Report Reviewed By:



Mandi Edwards
Project Manager

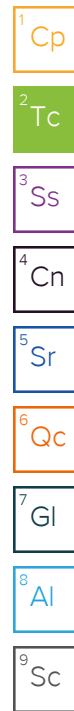
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Pace Analytical National

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SAMPLE SUMMARY

FL-B01R@2' L1881245-01

Collected by Don Tyson Collected date/time 07/21/25 14:00 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2569407	1	07/30/25 11:28	08/07/25 02:32	EKB	Mt. Juliet, TN

SP-CS02R@3' L1881245-02

Collected by Don Tyson Collected date/time 07/21/25 14:10 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 05:26	SJM	Mt. Juliet, TN

BG01@2' L1881245-03

Collected by Don Tyson Collected date/time 07/21/25 14:20 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:34	07/31/25 12:34	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569407	1	07/30/25 11:28	08/07/25 07:15	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 10:49	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 05:29	SJM	Mt. Juliet, TN

BG01@4' L1881245-04

Collected by Don Tyson Collected date/time 07/21/25 14:30 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:39	07/31/25 12:39	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569407	1	07/30/25 11:28	08/07/25 07:24	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 10:52	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 05:32	SJM	Mt. Juliet, TN

BG01@6' L1881245-05

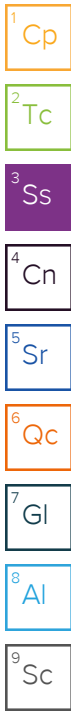
Collected by Don Tyson Collected date/time 07/21/25 14:40 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:41	07/31/25 12:41	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 20:04	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 10:55	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 05:35	SJM	Mt. Juliet, TN

BG02@2' L1881245-06

Collected by Don Tyson Collected date/time 07/21/25 14:50 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:43	07/31/25 12:43	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 20:22	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 10:58	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 05:38	SJM	Mt. Juliet, TN

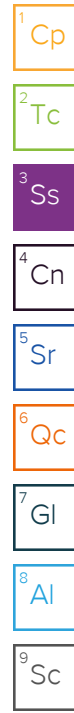


SAMPLE SUMMARY

BG02@4' L1881245-07

Collected by Don Tyson Collected date/time 07/21/25 15:00 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:44	07/31/25 12:44	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 21:06	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 11:01	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 02:29	SJM	Mt. Juliet, TN



BG02@6' L1881245-08

Collected by Don Tyson Collected date/time 07/21/25 15:10 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:46	07/31/25 12:46	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 21:42	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 11:04	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 02:32	SJM	Mt. Juliet, TN

BG03@2' L1881245-09

Collected by Don Tyson Collected date/time 07/21/25 15:20 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:48	07/31/25 12:48	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 21:51	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 11:07	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 02:35	SJM	Mt. Juliet, TN

BG03@4' L1881245-10

Collected by Don Tyson Collected date/time 07/21/25 15:30 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:49	07/31/25 12:49	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 22:00	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 11:10	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 02:38	SJM	Mt. Juliet, TN

BG03@6' L1881245-11

Collected by Don Tyson Collected date/time 07/21/25 15:40 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:51	07/31/25 12:51	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 22:09	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 11:14	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 04:21	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

BG04@2' L1881245-12

Collected by Don Tyson Collected date/time 07/21/25 15:50 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:53	07/31/25 12:53	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 22:18	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 11:33	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 04:39	SJM	Mt. Juliet, TN



BG04@4' L1881245-13

Collected by Don Tyson Collected date/time 07/21/25 16:00 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:54	07/31/25 12:54	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 22:27	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 11:36	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567055	5	07/26/25 08:34	08/14/25 04:24	SJM	Mt. Juliet, TN



BG04@6' L1881245-14

Collected by Don Tyson Collected date/time 07/21/25 16:10 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569600	1	07/31/25 12:01	07/31/25 12:01	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 22:35	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570714	1	07/31/25 20:27	08/07/25 11:05	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570716	1	07/31/25 20:29	08/11/25 13:53	KCB	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569608	1	07/30/25 16:34	07/31/25 11:39	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567054	5	07/28/25 08:34	08/13/25 17:51	TMT	Mt. Juliet, TN

BG05@2' L1881245-15

Collected by Don Tyson Collected date/time 07/21/25 16:20 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569603	1	07/31/25 11:14	07/31/25 11:14	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569388	1	07/30/25 11:19	08/06/25 22:44	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570430	1	07/31/25 14:34	08/03/25 12:37	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570465	1	07/31/25 14:51	08/05/25 12:08	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569610	1	07/30/25 15:25	07/30/25 19:10	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567054	5	07/28/25 08:34	08/13/25 17:55	TMT	Mt. Juliet, TN

BG05@4' L1881245-16

Collected by Don Tyson Collected date/time 07/21/25 16:30 Received date/time 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569603	1	07/31/25 11:15	07/31/25 11:15	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569383	1	07/30/25 11:12	08/06/25 16:00	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570430	1	07/31/25 14:34	08/03/25 12:37	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570465	1	07/31/25 14:51	08/05/25 12:08	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569610	1	07/30/25 15:25	07/30/25 19:13	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567054	5	07/28/25 08:34	08/13/25 17:58	TMT	Mt. Juliet, TN

SAMPLE SUMMARY

BG05@6' L1881245-17

Collected by: Don Tyson
 Collected date/time: 07/21/25 16:40
 Received date/time: 07/23/25 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2569603	1	07/31/25 11:17	07/31/25 11:17	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2569383	1	07/30/25 11:12	08/06/25 16:09	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2570430	1	07/31/25 14:34	08/03/25 12:37	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2570465	1	07/31/25 14:51	08/05/25 12:08	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2569610	1	07/30/25 15:25	07/30/25 19:16	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2567054	5	07/28/25 08:34	08/13/25 18:01	TMT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

CASE NARRATIVE

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



Mandi Edwards
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.380		0.200	0.200	1	08/07/2025 02:32	WG2569407

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

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Barium	637		10.0	10.0	5	08/14/2025 05:26	WG2567055

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.373		1	07/31/2025 12:34	WG2569600

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.279		0.200	0.200	1	08/07/2025 07:15	WG2569407

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.95		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-03 WG2570714: 7.95 at 20.9C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	385	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

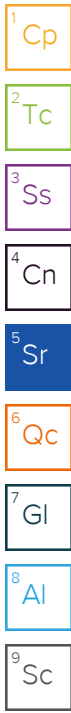
L1881245-03 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0259	J	0.0199	0.100	1	07/31/2025 10:49	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	6.77		0.100	0.100	5	08/14/2025 05:29	WG2567055
Barium	259		10.0	10.0	5	08/14/2025 05:29	WG2567055
Cadmium	0.216		0.100	0.100	5	08/14/2025 05:29	WG2567055
Copper	14.3		10.0	10.0	5	08/14/2025 05:29	WG2567055
Lead	12.7		10.0	10.0	5	08/14/2025 05:29	WG2567055
Nickel	16.5		10.0	10.0	5	08/14/2025 05:29	WG2567055
Selenium	0.333		0.100	0.100	5	08/14/2025 05:29	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 05:29	WG2567055
Zinc	54.6		50.0	50.0	5	08/14/2025 05:29	WG2567055



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.465		1	07/31/2025 12:39	WG2569600

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.228		0.200	0.200	1	08/07/2025 07:24	WG2569407

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.81		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-04 WG2570714: 7.81 at 21.2C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	469	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

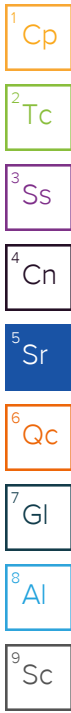
L1881245-04 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0282	J	0.0199	0.100	1	07/31/2025 10:52	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	5.75		0.100	0.100	5	08/14/2025 05:32	WG2567055
Barium	213		10.0	10.0	5	08/14/2025 05:32	WG2567055
Cadmium	0.218		0.100	0.100	5	08/14/2025 05:32	WG2567055
Copper	12.6		10.0	10.0	5	08/14/2025 05:32	WG2567055
Lead	11.9		10.0	10.0	5	08/14/2025 05:32	WG2567055
Nickel	15.2		10.0	10.0	5	08/14/2025 05:32	WG2567055
Selenium	0.314		0.100	0.100	5	08/14/2025 05:32	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 05:32	WG2567055
Zinc	ND		50.0	50.0	5	08/14/2025 05:32	WG2567055



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.404		1	07/31/2025 12:41	WG2569600

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.319		0.200	0.200	1	08/06/2025 20:04	WG2569388

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.72		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-05 WG2570714: 7.72 at 20.8C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	471	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

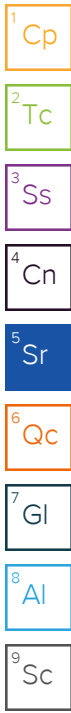
L1881245-05 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0244	J	0.0199	0.100	1	07/31/2025 10:55	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	5.28		0.100	0.100	5	08/14/2025 05:35	WG2567055
Barium	195		10.0	10.0	5	08/14/2025 05:35	WG2567055
Cadmium	0.179		0.100	0.100	5	08/14/2025 05:35	WG2567055
Copper	11.2		10.0	10.0	5	08/14/2025 05:35	WG2567055
Lead	10.1		10.0	10.0	5	08/14/2025 05:35	WG2567055
Nickel	13.6		10.0	10.0	5	08/14/2025 05:35	WG2567055
Selenium	0.299		0.100	0.100	5	08/14/2025 05:35	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 05:35	WG2567055
Zinc	ND		50.0	50.0	5	08/14/2025 05:35	WG2567055



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.298		1	07/31/2025 12:43	WG2569600

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.233		0.200	0.200	1	08/06/2025 20:22	WG2569388

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.10		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-06 WG2570714: 8.1 at 21.9C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	304	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

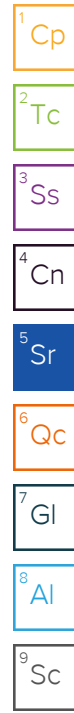
L1881245-06 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.0199	0.100	1	07/31/2025 10:58	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.65		0.100	0.100	5	08/14/2025 05:38	WG2567055
Barium	221		10.0	10.0	5	08/14/2025 05:38	WG2567055
Cadmium	0.145		0.100	0.100	5	08/14/2025 05:38	WG2567055
Copper	13.6		10.0	10.0	5	08/14/2025 05:38	WG2567055
Lead	10.6		10.0	10.0	5	08/14/2025 05:38	WG2567055
Nickel	15.5		10.0	10.0	5	08/14/2025 05:38	WG2567055
Selenium	0.287		0.100	0.100	5	08/14/2025 05:38	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 05:38	WG2567055
Zinc	ND		50.0	50.0	5	08/14/2025 05:38	WG2567055



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.367		1	07/31/2025 12:44	WG2569600

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.232		0.200	0.200	1	08/06/2025 21:06	WG2569388

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.17		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-07 WG2570714: 8.17 at 20.7C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	327	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

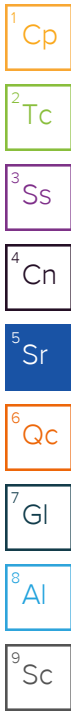
L1881245-07 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.0199	0.100	1	07/31/2025 11:01	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.59		0.100	0.100	5	08/14/2025 02:29	WG2567055
Barium	142		10.0	10.0	5	08/14/2025 02:29	WG2567055
Cadmium	0.131		0.100	0.100	5	08/14/2025 02:29	WG2567055
Copper	11.8		10.0	10.0	5	08/14/2025 02:29	WG2567055
Lead	ND		10.0	10.0	5	08/14/2025 02:29	WG2567055
Nickel	15.1		10.0	10.0	5	08/14/2025 02:29	WG2567055
Selenium	0.285		0.100	0.100	5	08/14/2025 02:29	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 02:29	WG2567055
Zinc	ND		50.0	50.0	5	08/14/2025 02:29	WG2567055



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.457		1	07/31/2025 12:46	WG2569600

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	0.200	1	08/06/2025 21:42	WG2569388

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.86		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-08 WG2570714: 7.86 at 20.6C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	438	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

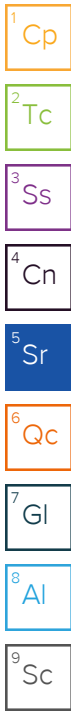
L1881245-08 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0274	J	0.0199	0.100	1	07/31/2025 11:04	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.93		0.100	0.100	5	08/14/2025 02:32	WG2567055
Barium	157		10.0	10.0	5	08/14/2025 02:32	WG2567055
Cadmium	ND		0.100	0.100	5	08/14/2025 02:32	WG2567055
Copper	ND		10.0	10.0	5	08/14/2025 02:32	WG2567055
Lead	ND		10.0	10.0	5	08/14/2025 02:32	WG2567055
Nickel	ND		10.0	10.0	5	08/14/2025 02:32	WG2567055
Selenium	0.186		0.100	0.100	5	08/14/2025 02:32	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 02:32	WG2567055
Zinc	ND		50.0	50.0	5	08/14/2025 02:32	WG2567055



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.328		1	07/31/2025 12:48	WG2569600

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

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.265		0.200	0.200	1	08/06/2025 21:51	WG2569388

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.06		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-09 WG2570714: 8.06 at 20.7C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	320	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

L1881245-09 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.0199	0.100	1	07/31/2025 11:07	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.61		0.100	0.100	5	08/14/2025 02:35	WG2567055
Barium	184		10.0	10.0	5	08/14/2025 02:35	WG2567055
Cadmium	0.149		0.100	0.100	5	08/14/2025 02:35	WG2567055
Copper	14.9		10.0	10.0	5	08/14/2025 02:35	WG2567055
Lead	11.4		10.0	10.0	5	08/14/2025 02:35	WG2567055
Nickel	16.9		10.0	10.0	5	08/14/2025 02:35	WG2567055
Selenium	0.289		0.100	0.100	5	08/14/2025 02:35	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 02:35	WG2567055
Zinc	52.7		50.0	50.0	5	08/14/2025 02:35	WG2567055

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.273		1	07/31/2025 12:49	WG2569600

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

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	0.200	1	08/06/2025 22:00	WG2569388

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.28		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-10 WG2570714: 8.28 at 20.6C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	295	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

L1881245-10 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

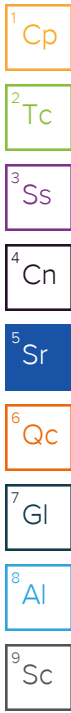
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0203	J	0.0199	0.100	1	07/31/2025 11:10	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.67		0.100	0.100	5	08/14/2025 02:38	WG2567055
Barium	243		10.0	10.0	5	08/14/2025 02:38	WG2567055
Cadmium	0.137		0.100	0.100	5	08/14/2025 02:38	WG2567055
Copper	10.4		10.0	10.0	5	08/14/2025 02:38	WG2567055
Lead	ND		10.0	10.0	5	08/14/2025 02:38	WG2567055
Nickel	11.5		10.0	10.0	5	08/14/2025 02:38	WG2567055
Selenium	0.238		0.100	0.100	5	08/14/2025 02:38	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 02:38	WG2567055
Zinc	ND		50.0	50.0	5	08/14/2025 02:38	WG2567055

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.201		1	07/31/2025 12:51	WG2569600



Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	0.200	1	08/06/2025 22:09	WG2569388

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.37		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-11 WG2570714: 8.37 at 20.5C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	226	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

L1881245-11 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.0199	0.100	1	07/31/2025 11:14	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.06		0.100	0.100	5	08/14/2025 04:21	WG2567055
Barium	137		10.0	10.0	5	08/14/2025 04:21	WG2567055
Cadmium	0.107		0.100	0.100	5	08/14/2025 04:21	WG2567055
Copper	ND		10.0	10.0	5	08/14/2025 04:21	WG2567055
Lead	ND		10.0	10.0	5	08/14/2025 04:21	WG2567055
Nickel	ND		10.0	10.0	5	08/14/2025 04:21	WG2567055
Selenium	0.367		0.100	0.100	5	08/14/2025 04:21	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 04:21	WG2567055
Zinc	ND		50.0	50.0	5	08/14/2025 04:21	WG2567055

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.342		1	07/31/2025 12:53	WG2569600

1 Cp

2 Tc

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	0.200	1	08/06/2025 22:18	WG2569388

3 Ss

4 Cn

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.16		1	08/07/2025 11:05	WG2570714

5 Sr

6 Qc

Sample Narrative:

L1881245-12 WG2570714: 8.16 at 20.5C

7 Gl

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	285	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

8 Al

9 Sc

Sample Narrative:

L1881245-12 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0272	J	0.0199	0.100	1	07/31/2025 11:33	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.51	O1	0.100	0.100	5	08/14/2025 04:39	WG2567055
Barium	197	O1	10.0	10.0	5	08/14/2025 04:39	WG2567055
Cadmium	0.249		0.100	0.100	5	08/14/2025 04:39	WG2567055
Copper	15.3		10.0	10.0	5	08/14/2025 04:39	WG2567055
Lead	12.0		10.0	10.0	5	08/14/2025 04:39	WG2567055
Nickel	17.5		10.0	10.0	5	08/14/2025 04:39	WG2567055
Selenium	0.366		0.100	0.100	5	08/14/2025 04:39	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 04:39	WG2567055
Zinc	57.9		50.0	50.0	5	08/14/2025 04:39	WG2567055

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.319		1	07/31/2025 12:54	WG2569600



Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.232		0.200	0.200	1	08/06/2025 22:27	WG2569388



Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.26		1	08/07/2025 11:05	WG2570714



Sample Narrative:

L1881245-13 WG2570714: 8.26 at 20.4C



Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	269	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716



Sample Narrative:

L1881245-13 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0238	J	0.0199	0.100	1	07/31/2025 11:36	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	6.05		0.100	0.100	5	08/14/2025 04:24	WG2567055
Barium	182		10.0	10.0	5	08/14/2025 04:24	WG2567055
Cadmium	0.144		0.100	0.100	5	08/14/2025 04:24	WG2567055
Copper	12.9		10.0	10.0	5	08/14/2025 04:24	WG2567055
Lead	ND		10.0	10.0	5	08/14/2025 04:24	WG2567055
Nickel	15.4		10.0	10.0	5	08/14/2025 04:24	WG2567055
Selenium	0.268		0.100	0.100	5	08/14/2025 04:24	WG2567055
Silver	ND		0.500	0.500	5	08/14/2025 04:24	WG2567055
Zinc	ND		50.0	50.0	5	08/14/2025 04:24	WG2567055

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.385		1	07/31/2025 12:01	WG2569600

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.206		0.200	0.200	1	08/06/2025 22:35	WG2569388

- 5 Sr
- 6 Qc

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.24		1	08/07/2025 11:05	WG2570714

Sample Narrative:

L1881245-14 WG2570714: 8.24 at 20.6C

- 7 Gl
- 8 Al

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	273	umhos/cm		10.0	1	08/11/2025 13:53	WG2570716

Sample Narrative:

L1881245-14 WG2570716: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0250	J	0.0199	0.100	1	07/31/2025 11:39	WG2569608

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	4.44		0.100	0.100	5	08/13/2025 17:51	WG2567054
Barium	138		10.0	10.0	5	08/13/2025 17:51	WG2567054
Cadmium	0.118		0.100	0.100	5	08/13/2025 17:51	WG2567054
Copper	10.3		10.0	10.0	5	08/13/2025 17:51	WG2567054
Lead	ND		10.0	10.0	5	08/13/2025 17:51	WG2567054
Nickel	12.0		10.0	10.0	5	08/13/2025 17:51	WG2567054
Selenium	0.247		0.100	0.100	5	08/13/2025 17:51	WG2567054
Silver	ND		0.500	0.500	5	08/13/2025 17:51	WG2567054
Zinc	ND		50.0	50.0	5	08/13/2025 17:51	WG2567054

- 9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.160		1	07/31/2025 11:14	WG2569603

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.223		0.200	0.200	1	08/06/2025 22:44	WG2569388

- 5 Sr
- 6 Qc

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.05		1	08/03/2025 12:37	WG2570430

Sample Narrative:

L1881245-15 WG2570430: 8.05 at 19.7C

- 7 Gl
- 8 Al

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	308	umhos/cm		10.0	1	08/05/2025 12:08	WG2570465

Sample Narrative:

L1881245-15 WG2570465: at 25C

- 9 Sc

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.0199	0.100	1	07/30/2025 19:10	WG2569610

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.22		0.100	0.100	5	08/13/2025 17:55	WG2567054
Barium	263		10.0	10.0	5	08/13/2025 17:55	WG2567054
Cadmium	0.175		0.100	0.100	5	08/13/2025 17:55	WG2567054
Copper	14.5		10.0	10.0	5	08/13/2025 17:55	WG2567054
Lead	11.2		10.0	10.0	5	08/13/2025 17:55	WG2567054
Nickel	16.5		10.0	10.0	5	08/13/2025 17:55	WG2567054
Selenium	0.282		0.100	0.100	5	08/13/2025 17:55	WG2567054
Silver	ND		0.500	0.500	5	08/13/2025 17:55	WG2567054
Zinc	53.7		50.0	50.0	5	08/13/2025 17:55	WG2567054

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.162		1	07/31/2025 11:15	WG2569603

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	0.200	1	08/06/2025 16:00	WG2569383

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.08		1	08/03/2025 12:37	WG2570430

Sample Narrative:

L1881245-16 WG2570430: 8.08 at 20.7C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	307	umhos/cm		10.0	1	08/05/2025 12:08	WG2570465

Sample Narrative:

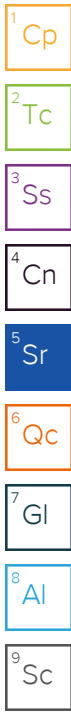
L1881245-16 WG2570465: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.0199	0.100	1	07/30/2025 19:13	WG2569610

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.39		0.100	0.100	5	08/13/2025 17:58	WG2567054
Barium	241		10.0	10.0	5	08/13/2025 17:58	WG2567054
Cadmium	0.198		0.100	0.100	5	08/13/2025 17:58	WG2567054
Copper	14.2		10.0	10.0	5	08/13/2025 17:58	WG2567054
Lead	11.4		10.0	10.0	5	08/13/2025 17:58	WG2567054
Nickel	16.6		10.0	10.0	5	08/13/2025 17:58	WG2567054
Selenium	0.285		0.100	0.100	5	08/13/2025 17:58	WG2567054
Silver	ND		0.500	0.500	5	08/13/2025 17:58	WG2567054
Zinc	51.5		50.0	50.0	5	08/13/2025 17:58	WG2567054



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.136		1	07/31/2025 11:17	WG2569603

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	0.200	1	08/06/2025 16:09	WG2569383

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.27		1	08/03/2025 12:37	WG2570430

Sample Narrative:

L1881245-17 WG2570430: 8.27 at 19.8C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	286	umhos/cm		10.0	1	08/05/2025 12:08	WG2570465

Sample Narrative:

L1881245-17 WG2570465: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.0199	0.100	1	07/30/2025 19:16	WG2569610

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.39		0.100	0.100	5	08/13/2025 18:01	WG2567054
Barium	198		10.0	10.0	5	08/13/2025 18:01	WG2567054
Cadmium	0.153		0.100	0.100	5	08/13/2025 18:01	WG2567054
Copper	12.6		10.0	10.0	5	08/13/2025 18:01	WG2567054
Lead	ND		10.0	10.0	5	08/13/2025 18:01	WG2567054
Nickel	15.1		10.0	10.0	5	08/13/2025 18:01	WG2567054
Selenium	0.331		0.100	0.100	5	08/13/2025 18:01	WG2567054
Silver	ND		0.500	0.500	5	08/13/2025 18:01	WG2567054
Zinc	ND		50.0	50.0	5	08/13/2025 18:01	WG2567054



Method Blank (MB)

(MB) R4255586-1 08/06/25 11:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	ND		0.200	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1881144-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1881144-01 08/06/25 11:21 • (DUP) R4255586-3 08/06/25 11:30

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

L1881194-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1881194-02 08/06/25 15:42 • (DUP) R4255586-8 08/06/25 15:51

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

Laboratory Control Sample (LCS)

(LCS) R4255586-2 08/06/25 11:12

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	9.03	90.3	80.0-120	

L1881194-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881194-01 08/06/25 14:39 • (MS) R4255586-4 08/06/25 14:48 • (MSD) R4255586-5 08/06/25 15:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	0.586	17.3	17.6	83.6	85.2	1	75.0-125			1.85	20

L1881194-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1881194-01 08/06/25 14:39 • (MS) R4255586-6 08/06/25 15:24

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	641	0.586	564	88.0	50	75.0-125	

Method Blank (MB)

(MB) R4255252-1 08/06/25 18:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	ND		0.200	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1881245-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1881245-05 08/06/25 20:04 • (DUP) R4255252-3 08/06/25 20:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	0.319	0.300	1	6.11		20

L1881245-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1881245-07 08/06/25 21:06 • (DUP) R4255252-8 08/06/25 21:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	0.232	0.237	1	1.99		20

Laboratory Control Sample (LCS)

(LCS) R4255252-2 08/06/25 18:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	9.18	91.8	80.0-120	

L1881245-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881245-06 08/06/25 20:22 • (MS) R4255252-4 08/06/25 20:31 • (MSD) R4255252-5 08/06/25 20:39

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	0.233	16.9	18.3	83.2	90.2	1	75.0-125			7.92	20

L1881245-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1881245-06 08/06/25 20:22 • (MS) R4255252-6 08/06/25 20:48

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	651	0.233	639	98.2	50	75.0-125	

Method Blank (MB)

(MB) R4255582-1 08/07/25 01:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	ND		0.200	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1881248-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1881248-08 08/07/25 04:20 • (DUP) R4255582-7 08/07/25 04:47

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

L1881245-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1881245-04 08/07/25 07:24 • (DUP) R4255582-8 08/07/25 07:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	0.228	0.277	1	19.5		20

Laboratory Control Sample (LCS)

(LCS) R4255582-2 08/07/25 01:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	9.62	96.2	80.0-120	

L1881245-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881245-01 08/07/25 02:32 • (MS) R4255582-4 08/07/25 02:50 • (MSD) R4255582-5 08/07/25 02:59

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	0.380	16.8	16.0	81.9	78.3	1	75.0-125			4.39	20

L1881245-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1881245-01 08/07/25 02:32 • (MS) R4255582-6 08/07/25 03:08

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	654	0.380	567	86.7	50	75.0-125	

L1880760-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1880760-23 08/03/25 12:37 • (DUP) R4253575-2 08/03/25 12:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su			%		%
pH	6.74	6.76	1	0.296		1

Sample Narrative:

OS: 6.74 at 19.5C
DUP: 6.76 at 19.8C

L1881245-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1881245-17 08/03/25 12:37 • (DUP) R4253575-3 08/03/25 12:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su			%		%
pH	8.27	8.26	1	0.121		1

Sample Narrative:

OS: 8.27 at 19.8C
DUP: 8.26 at 19.9C

Laboratory Control Sample (LCS)

(LCS) R4253575-1 08/03/25 12:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
su	su		%	%	
pH	10.0	9.98	99.8	99.0-101	

Sample Narrative:

LCS: 9.98 at 19.6C

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1881227-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1881227-01 08/07/25 11:05 • (DUP) R4255438-2 08/07/25 11:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su	su		%		%
pH	8.53	8.52	1	0.117		1

Sample Narrative:

OS: 8.53 at 21.1C
DUP: 8.52 at 20.9C

L1881245-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1881245-14 08/07/25 11:05 • (DUP) R4255438-3 08/07/25 11:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su	su		%		%
pH	8.24	8.26	1	0.242		1

Sample Narrative:

OS: 8.24 at 20.6C
DUP: 8.26 at 20.6C

Laboratory Control Sample (LCS)

(LCS) R4255438-1 08/07/25 11:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
su	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 20.3C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4254219-1 08/05/25 12:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Specific Conductance	umhos/cm		umhos/cm	umhos/cm
	ND		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1880792-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1880792-04 08/05/25 12:08 • (DUP) R4254219-3 08/05/25 12:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	umhos/cm	umhos/cm		%		%
	38.5	38.5	1	0.000		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1881245-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1881245-16 08/05/25 12:08 • (DUP) R4254219-4 08/05/25 12:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	umhos/cm	umhos/cm		%		%
	307	307	1	0.000		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4254219-2 08/05/25 12:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Specific Conductance	umhos/cm	umhos/cm	%	%	
	581	586	101	90.0-110	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R4256935-1 08/11/25 13:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Specific Conductance	ND		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1881227-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1881227-02 08/11/25 13:53 • (DUP) R4256935-3 08/11/25 13:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	641	639	1	0.313		20

Sample Narrative:

OS: at 25C
DUP: at 25C

L1881245-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1881245-13 08/11/25 13:53 • (DUP) R4256935-4 08/11/25 13:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	269	267	1	0.932		20

Sample Narrative:

OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4256935-2 08/11/25 13:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Specific Conductance	581	580	99.8	90.0-110	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R4252237-1 07/31/25 10:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	ND		0.0199	0.100

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

(LCS) R4252237-2 07/31/25 10:11 • (LCSD) R4252237-3 07/31/25 10:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.05	1.07	105	107	80.0-120			2.11	20

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

Method Blank (MB)

(MB) R4251829-1 07/30/25 19:01

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	ND		0.0199	0.100

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

(LCS) R4251829-2 07/30/25 19:04 • (LCSD) R4251829-3 07/30/25 19:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.965	0.961	96.5	96.1	80.0-120			0.469	20

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

Method Blank (MB)

(MB) R4258231-1 08/13/25 16:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	ND		0.100	0.100
Barium	ND		10.0	10.0
Cadmium	ND		0.100	0.100
Copper	ND		10.0	10.0
Lead	ND		10.0	10.0
Nickel	ND		10.0	10.0
Selenium	ND		0.100	0.100
Silver	ND		0.500	0.500
Zinc	ND		50.0	50.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R4258231-2 08/13/25 16:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	97.9	97.9	80.0-120	
Barium	100	94.9	94.9	80.0-120	
Cadmium	100	101	101	80.0-120	
Copper	100	98.4	98.4	80.0-120	
Lead	100	94.3	94.3	80.0-120	
Nickel	100	104	104	80.0-120	
Selenium	100	91.5	91.5	80.0-120	
Silver	20.0	19.6	98.1	80.0-120	
Zinc	100	97.9	97.9	80.0-120	

⁷Gl

⁸Al

⁹Sc

L1881201-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881201-35 08/13/25 16:31 • (MS) R4258231-5 08/13/25 16:41 • (MSD) R4258231-6 08/13/25 16:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	1.17	106	92.7	105	91.5	5	75.0-125			13.4	20
Barium	100	36.4	145	133	108	96.7	5	75.0-125			8.29	20
Cadmium	100	ND	112	95.2	112	95.2	5	75.0-125			16.4	20
Copper	100	ND	110	95.3	110	95.3	5	75.0-125			13.9	20
Lead	100	ND	108	93.5	108	93.5	5	75.0-125			14.2	20
Nickel	100	ND	113	98.4	113	98.4	5	75.0-125			14.0	20
Selenium	100	ND	103	85.2	103	85.2	5	75.0-125			18.6	20
Silver	20.0	ND	21.8	19.0	109	95.0	5	75.0-125			13.6	20
Zinc	100	ND	116	102	116	102	5	75.0-125			12.5	20

Method Blank (MB)

(MB) R4258465-1 08/14/25 04:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	ND		0.100	0.100
Barium	ND		10.0	10.0
Cadmium	ND		0.100	0.100
Copper	ND		10.0	10.0
Lead	ND		10.0	10.0
Nickel	ND		10.0	10.0
Selenium	ND		0.100	0.100
Silver	ND		0.500	0.500
Zinc	ND		50.0	50.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R4258465-2 08/14/25 04:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	92.5	92.5	80.0-120	
Barium	100	96.8	96.8	80.0-120	
Cadmium	100	92.5	92.5	80.0-120	
Copper	100	93.8	93.8	80.0-120	
Lead	100	90.7	90.7	80.0-120	
Nickel	100	94.8	94.8	80.0-120	
Selenium	100	91.7	91.7	80.0-120	
Silver	20.0	20.2	101	80.0-120	
Zinc	100	90.9	90.9	80.0-120	

⁷Gl

⁸Al

⁹Sc

L1881245-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881245-12 08/14/25 04:39 • (MS) R4258465-5 08/14/25 04:49 • (MSD) R4258465-6 08/14/25 04:52

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	5.51	95.5	93.3	90.0	87.8	5	75.0-125			2.37	20
Barium	100	197	295	297	97.5	99.2	5	75.0-125			0.574	20
Cadmium	100	0.249	90.5	88.0	90.2	87.8	5	75.0-125			2.76	20
Copper	100	15.3	101	100	85.6	84.9	5	75.0-125			0.662	20
Lead	100	12.0	95.5	94.0	83.5	82.0	5	75.0-125			1.58	20
Nickel	100	17.5	104	103	86.8	85.4	5	75.0-125			1.44	20
Selenium	100	0.366	91.0	87.8	90.6	87.5	5	75.0-125			3.57	20
Silver	20.0	ND	19.3	19.0	96.5	94.9	5	75.0-125			1.66	20
Zinc	100	57.9	142	141	84.4	82.8	5	75.0-125			1.17	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

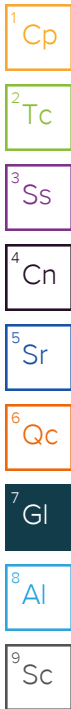
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
Civitas/Tasman - CO
 4725 Independence St,
 Wheat Ridge, Colorado 80033

Billing Information:
Accounts Payable
 650 Southgate Dr.
 Windsor, CO 80550

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Project Manager:
Sam Vogt / Jacob Evans

Email: **svogt@tasman-geo.com / Jevans@civiresources.com**

Project Name: **Alcorn 1**

Please Circle:
 PT MT CT ET

Phone: **610-405-9078**

Lab Project #:

AFE# or C/C:
23735

Collected by (print):
Don Tyson

Site/Facility ID #:

Billing Code #:
8520.154

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

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

Quote #
 Date Results Needed
STD

Full TABLE915 8ozClr-NoPres	Background TABLE915 8ozClr-NoPres	V8260 (GW TABLE915) 40mL Amb-HCl	Chloride, Sulfate 125mL HDPE-NoPres	TDS 1L-HDPE-NoPres	Chromium(VI)	Barium
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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/hubs/pas-standard-terms.pdf>

SDG # **L1881245**

Table # **K126**

Acctnum: **CIVTASBCO**
 Template: **T250702**
 Prelogin: **P1068185**
 PM: **824 - Chris Ward**
 PB:

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Containers
FL-B01R @2'	Grab	SS	2'	7/22/25	1400	1
SP-CS02R @3'			3'		1410	
BG01 @2'			2'		1420	
BG01 @4'			4'		1430	
BG01 @6'			6'		1440	
BG02 @2'			2'		1450	
BG02 @4'			4'		1500	
BG02 @6'			6'		1510	
BG03 @2'			2'		1520	
BG03 @4'			4'		1530	

Remarks	Sample # (lab only)
	-01
	-02
	-03
	-04
	-05
	-06
	-07
	-08
	-09
	-10

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

Remarks:
 pH, EC, SAR by saturated paste preparation method
 Boron by hot water soluble preparation method
 Table 915-1 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Tracking # **MVH**

pH ___ Temp ___
 Flow ___ Other ___

Sample Receipt Checklist

COC Seal Present/Intact: ___ NP Y ___ N

COC Signed/Accurate: ___ Y ___ N

Bottles arrive intact: ___ Y ___ N

Correct bottles used: ___ Y ___ N

Sufficient volume sent: ___ Y ___ N

IF Applicable
 VOA Zero Headspace: ___ Y ___ N
 Preservation Correct/Checked: ___ Y ___ N
 RAD Screen <0.5 mR/hr: ___ Y ___ N

Relinquished by: (Signature)
[Signature]

Date: **7/22/25**

Time: **1750**

Received by: (Signature)
Sale Corning

Trip Blank Received: Yes/No
 HCL / MeOH
 TBR

Relinquished by: (Signature)
Sale Corning

Date: **7/22/25**

Time: **1800**

Received by: (Signature)
SWA Coring

Temp: **MVH** °C Bottles Received: **17**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)
[Signature]

Date: **7/23/25** Time: **1100**

Hold: Condition: NCF / **OK**

PNDCO

