

Hydro Geo Chem - Tucson, AZ

Sample Delivery Group: L1718404
Samples Received: 03/23/2024
Project Number: 2024007
Description: 6th & Birch

Report To: Abra Bentley
51 West Wetmore, Ste 101
Tucson, AZ 85705-1678

Entire Report Reviewed By:



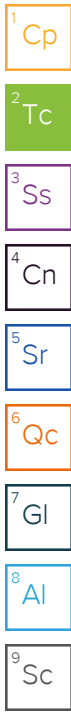
Tony Gibson
Project Manager

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

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¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

SAMPLE SUMMARY

281 S WILLARD-1 L1718404-01 Solid

Collected by Luis Montijo Collected date/time 03/20/24 13:39 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 15:57	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 00:45	SJM	Mt. Juliet, TN



692 S 2ND DRIVE-1 L1718404-02 Solid

Collected by Luis Montijo Collected date/time 03/20/24 15:56 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:00	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2252922	5	03/27/24 12:09	03/29/24 11:10	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 00:48	SJM	Mt. Juliet, TN

500 CHERRY-2 L1718404-03 Solid

Collected by Luis Montijo Collected date/time 03/20/24 15:22 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:03	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 00:52	SJM	Mt. Juliet, TN

508 E COTTONWOOD DR. L1718404-04 Solid

Collected by Luis Montijo Collected date/time 03/20/24 14:42 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:10	03/28/24 15:41	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:09	03/29/24 00:28	SJM	Mt. Juliet, TN

315 S WILLARD ST-1 L1718404-05 Solid

Collected by Luis Montijo Collected date/time 03/22/24 10:25 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:12	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:02	SJM	Mt. Juliet, TN

350 S 12TH ST-1 L1718404-06 Solid

Collected by Luis Montijo Collected date/time 03/22/24 12:53 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:15	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:05	SJM	Mt. Juliet, TN

350 S 12TH ST-2 L1718404-07 Solid

Collected by Luis Montijo Collected date/time 03/22/24 12:53 Received date/time 03/23/24 09:00

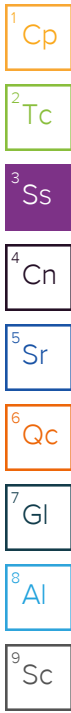
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:18	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:08	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

497 S WILLARD ST-1 L1718404-08 Solid

Collected by Luis Montijo Collected date/time 03/22/24 11:53 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:21	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:12	SJM	Mt. Juliet, TN



497 S WILLARD ST-2 L1718404-09 Solid

Collected by Luis Montijo Collected date/time 03/22/24 11:53 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:15	SJM	Mt. Juliet, TN

497 S WILLARD ST-3 L1718404-10 Solid

Collected by Luis Montijo Collected date/time 03/22/24 11:53 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:28	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:18	SJM	Mt. Juliet, TN

525 S 12 ST-1 L1718404-11 Solid

Collected by Luis Montijo Collected date/time 03/21/24 09:12 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:31	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:21	SJM	Mt. Juliet, TN

525 S 12 ST-2 L1718404-12 Solid

Collected by Luis Montijo Collected date/time 03/21/24 09:12 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:34	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:25	SJM	Mt. Juliet, TN

525 S 12 ST-3 L1718404-13 Solid

Collected by Luis Montijo Collected date/time 03/21/24 09:12 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:37	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:28	SJM	Mt. Juliet, TN

319 S 6TH ST-3 L1718404-14 Solid

Collected by Luis Montijo Collected date/time 03/21/24 10:02 Received date/time 03/23/24 09:00

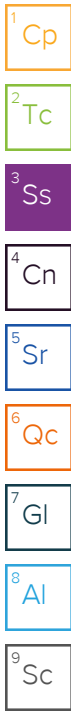
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:40	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:31	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

985 E MINGOS AVE-1 L1718404-15 Solid

Collected by Luis Montijo Collected date/time 03/20/24 17:22 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:49	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:41	SJM	Mt. Juliet, TN



985 E MINGOS AVE-2 L1718404-16 Solid

Collected by Luis Montijo Collected date/time 03/20/24 17:22 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:52	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:45	SJM	Mt. Juliet, TN

S 8TH PLACE-1 L1718404-17 Solid

Collected by Luis Montijo Collected date/time 03/20/24 16:45 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:55	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:48	SJM	Mt. Juliet, TN

S 8TH PLACE-3 L1718404-18 Solid

Collected by Luis Montijo Collected date/time 03/20/24 16:45 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 16:58	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:51	SJM	Mt. Juliet, TN

18 E BEECH-1 L1718404-19 Solid

Collected by Luis Montijo Collected date/time 03/20/24 13:39 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 17:01	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:55	SJM	Mt. Juliet, TN

950 E MINGOS AVE-1 L1718404-20 Solid

Collected by Luis Montijo Collected date/time 03/20/24 17:52 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252922	1	03/27/24 12:09	03/28/24 17:05	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252919	5	03/27/24 12:08	03/29/24 01:58	SJM	Mt. Juliet, TN

MINERAL RESOURCES-2 L1718404-21 Solid

Collected by Luis Montijo Collected date/time 03/21/24 14:51 Received date/time 03/23/24 09:00

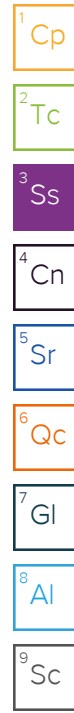
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:22	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2252917	5	03/27/24 14:34	03/28/24 18:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/28/24 23:22	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MINERAL RESOURCES-3 L1718404-22 Solid

Collected by Luis Montijo Collected date/time 03/21/24 14:51 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:23	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2252917	5	03/27/24 14:34	03/28/24 18:26	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/28/24 23:26	LD	Mt. Juliet, TN



333 S WILLARD ST-1 L1718404-23 Solid

Collected by Luis Montijo Collected date/time 03/21/24 14:09 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:25	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/28/24 23:29	LD	Mt. Juliet, TN

333 S WILLARD ST-2 L1718404-24 Solid

Collected by Luis Montijo Collected date/time 03/21/24 14:09 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:13	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/28/24 23:06	LD	Mt. Juliet, TN

319 S 6TH ST-1 L1718404-25 Solid

Collected by Luis Montijo Collected date/time 03/21/24 10:02 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:30	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2252917	5	03/27/24 14:34	03/28/24 18:28	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/28/24 23:44	LD	Mt. Juliet, TN

319 S 6TH ST-2 L1718404-26 Solid

Collected by Luis Montijo Collected date/time 03/21/24 10:02 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:32	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2252917	5	03/27/24 14:34	03/28/24 18:30	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/28/24 23:49	LD	Mt. Juliet, TN

751 E ASPEN ST-1 L1718404-27 Solid

Collected by Luis Montijo Collected date/time 03/21/24 12:52 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:33	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/28/24 23:52	LD	Mt. Juliet, TN

705 E ASPEN ST-1 L1718404-28 Solid

Collected by Luis Montijo Collected date/time 03/21/24 11:42 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:35	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/28/24 23:55	LD	Mt. Juliet, TN

SAMPLE SUMMARY

705 E ASPEN ST-2 L1718404-29 Solid

Collected by: Luis Montijo
 Collected date/time: 03/21/24 11:42
 Received date/time: 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:37	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/28/24 23:59	LD	Mt. Juliet, TN

57 E ASPEN ST-1 L1718404-30 Solid

Collected by: Luis Montijo
 Collected date/time: 03/21/24 11:11
 Received date/time: 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2252917	1	03/27/24 14:34	03/28/24 15:38	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2252918	5	03/27/24 14:36	03/29/24 00:02	LD	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.



Tony Gibson
Project Manager

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

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	2.77		0.544	2.00	1	03/28/2024 15:57	WG2252922
Arsenic	21.8		0.518	2.00	1	03/28/2024 15:57	WG2252922
Barium	190		0.0852	0.500	1	03/28/2024 15:57	WG2252922
Cadmium	6.53		0.0471	0.500	1	03/28/2024 15:57	WG2252922
Copper	272		0.400	2.00	1	03/28/2024 15:57	WG2252922
Iron	25100		2.24	10.0	1	03/28/2024 15:57	WG2252922
Lead	66.1		0.208	0.500	1	03/28/2024 15:57	WG2252922
Manganese	457		0.133	1.00	1	03/28/2024 15:57	WG2252922
Nickel	47.0		0.132	2.00	1	03/28/2024 15:57	WG2252922
Silver	0.690	E4	0.127	1.00	1	03/28/2024 15:57	WG2252922
Thallium	0.515	E4	0.394	2.00	1	03/28/2024 15:57	WG2252922
Zinc	266		0.832	5.00	1	03/28/2024 15:57	WG2252922

1
Cp

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Sr

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Qc

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Gl

8
Al

9
Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.386	E4	0.0478	15.0	5	03/29/2024 00:45	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	2.44		0.544	2.00	1	03/28/2024 16:00	WG2252922
Arsenic	133		0.518	2.00	1	03/28/2024 16:00	WG2252922
Barium	128		0.0852	0.500	1	03/28/2024 16:00	WG2252922
Cadmium	U		0.0471	0.500	1	03/28/2024 16:00	WG2252922
Copper	107		0.400	2.00	1	03/28/2024 16:00	WG2252922
Iron	71300		11.2	50.0	5	03/29/2024 11:10	WG2252922
Lead	16.1		0.208	0.500	1	03/28/2024 16:00	WG2252922
Manganese	1260		0.133	1.00	1	03/28/2024 16:00	WG2252922
Nickel	105		0.132	2.00	1	03/28/2024 16:00	WG2252922
Silver	0.229	E4	0.127	1.00	1	03/28/2024 16:00	WG2252922
Thallium	0.525	E4	0.394	2.00	1	03/28/2024 16:00	WG2252922
Zinc	99.0		0.832	5.00	1	03/28/2024 16:00	WG2252922

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Cp

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Tc

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Sr

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.435	E4	0.0478	15.0	5	03/29/2024 00:48	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.94	E4	0.544	2.00	1	03/28/2024 16:03	WG2252922
Arsenic	11.8		0.518	2.00	1	03/28/2024 16:03	WG2252922
Barium	111		0.0852	0.500	1	03/28/2024 16:03	WG2252922
Cadmium	0.582		0.0471	0.500	1	03/28/2024 16:03	WG2252922
Copper	291		0.400	2.00	1	03/28/2024 16:03	WG2252922
Iron	19000		2.24	10.0	1	03/28/2024 16:03	WG2252922
Lead	23.4		0.208	0.500	1	03/28/2024 16:03	WG2252922
Manganese	305		0.133	1.00	1	03/28/2024 16:03	WG2252922
Nickel	23.3		0.132	2.00	1	03/28/2024 16:03	WG2252922
Silver	0.341	E4	0.127	1.00	1	03/28/2024 16:03	WG2252922
Thallium	0.474	E4	0.394	2.00	1	03/28/2024 16:03	WG2252922
Zinc	248		0.832	5.00	1	03/28/2024 16:03	WG2252922

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.425	E4	0.0478	15.0	5	03/29/2024 00:52	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	2.05	M2	0.544	2.00	1	03/28/2024 15:41	WG2252922
Arsenic	16.2		0.518	2.00	1	03/28/2024 15:41	WG2252922
Barium	154	M2	0.0852	0.500	1	03/28/2024 15:41	WG2252922
Cadmium	1.55		0.0471	0.500	1	03/28/2024 15:41	WG2252922
Copper	109		0.400	2.00	1	03/28/2024 15:41	WG2252922
Iron	27100	M3	2.24	10.0	1	03/28/2024 15:41	WG2252922
Lead	25.8		0.208	0.500	1	03/28/2024 15:41	WG2252922
Manganese	473	M3	0.133	1.00	1	03/28/2024 15:41	WG2252922
Nickel	30.9		0.132	2.00	1	03/28/2024 15:41	WG2252922
Silver	0.306	E4	0.127	1.00	1	03/28/2024 15:41	WG2252922
Thallium	0.971	E4	0.394	2.00	1	03/28/2024 15:41	WG2252922
Zinc	129		0.832	5.00	1	03/28/2024 15:41	WG2252922

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.401	E4	0.0478	15.0	5	03/29/2024 00:28	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.52	E4	0.544	2.00	1	03/28/2024 16:12	WG2252922
Arsenic	15.0		0.518	2.00	1	03/28/2024 16:12	WG2252922
Barium	165		0.0852	0.500	1	03/28/2024 16:12	WG2252922
Cadmium	4.72		0.0471	0.500	1	03/28/2024 16:12	WG2252922
Copper	589		0.400	2.00	1	03/28/2024 16:12	WG2252922
Iron	17100		2.24	10.0	1	03/28/2024 16:12	WG2252922
Lead	62.0		0.208	0.500	1	03/28/2024 16:12	WG2252922
Manganese	336		0.133	1.00	1	03/28/2024 16:12	WG2252922
Nickel	29.3		0.132	2.00	1	03/28/2024 16:12	WG2252922
Silver	0.869	E4	0.127	1.00	1	03/28/2024 16:12	WG2252922
Thallium	U		0.394	2.00	1	03/28/2024 16:12	WG2252922
Zinc	275		0.832	5.00	1	03/28/2024 16:12	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.352	E4	0.0478	15.0	5	03/29/2024 01:02	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	2.03		0.544	2.00	1	03/28/2024 16:15	WG2252922
Arsenic	3.16		0.518	2.00	1	03/28/2024 16:15	WG2252922
Barium	109		0.0852	0.500	1	03/28/2024 16:15	WG2252922
Cadmium	U		0.0471	0.500	1	03/28/2024 16:15	WG2252922
Copper	24.9		0.400	2.00	1	03/28/2024 16:15	WG2252922
Iron	11800		2.24	10.0	1	03/28/2024 16:15	WG2252922
Lead	5.30		0.208	0.500	1	03/28/2024 16:15	WG2252922
Manganese	258		0.133	1.00	1	03/28/2024 16:15	WG2252922
Nickel	42.4		0.132	2.00	1	03/28/2024 16:15	WG2252922
Silver	0.200	E4	0.127	1.00	1	03/28/2024 16:15	WG2252922
Thallium	U		0.394	2.00	1	03/28/2024 16:15	WG2252922
Zinc	35.2		0.832	5.00	1	03/28/2024 16:15	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.520	E4	0.0478	15.0	5	03/29/2024 01:05	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.98	E4	0.544	2.00	1	03/28/2024 16:18	WG2252922
Arsenic	29.6		0.518	2.00	1	03/28/2024 16:18	WG2252922
Barium	152		0.0852	0.500	1	03/28/2024 16:18	WG2252922
Cadmium	3.71		0.0471	0.500	1	03/28/2024 16:18	WG2252922
Copper	333		0.400	2.00	1	03/28/2024 16:18	WG2252922
Iron	24400		2.24	10.0	1	03/28/2024 16:18	WG2252922
Lead	62.2		0.208	0.500	1	03/28/2024 16:18	WG2252922
Manganese	460		0.133	1.00	1	03/28/2024 16:18	WG2252922
Nickel	36.6		0.132	2.00	1	03/28/2024 16:18	WG2252922
Silver	0.499	E4	0.127	1.00	1	03/28/2024 16:18	WG2252922
Thallium	U		0.394	2.00	1	03/28/2024 16:18	WG2252922
Zinc	183		0.832	5.00	1	03/28/2024 16:18	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.402	E4	0.0478	15.0	5	03/29/2024 01:08	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	4.74		0.544	2.00	1	03/28/2024 16:21	WG2252922
Arsenic	1680		0.518	2.00	1	03/28/2024 16:21	WG2252922
Barium	231		0.0852	0.500	1	03/28/2024 16:21	WG2252922
Cadmium	87.9		0.0471	0.500	1	03/28/2024 16:21	WG2252922
Copper	1830		0.400	2.00	1	03/28/2024 16:21	WG2252922
Iron	19500		2.24	10.0	1	03/28/2024 16:21	WG2252922
Lead	651		0.208	0.500	1	03/28/2024 16:21	WG2252922
Manganese	207		0.133	1.00	1	03/28/2024 16:21	WG2252922
Nickel	17.1		0.132	2.00	1	03/28/2024 16:21	WG2252922
Silver	5.29		0.127	1.00	1	03/28/2024 16:21	WG2252922
Thallium	2.89		0.394	2.00	1	03/28/2024 16:21	WG2252922
Zinc	1320		0.832	5.00	1	03/28/2024 16:21	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.860	E4	0.0478	15.0	5	03/29/2024 01:12	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.08	E4	0.544	2.00	1	03/28/2024 16:24	WG2252922
Arsenic	35.7		0.518	2.00	1	03/28/2024 16:24	WG2252922
Barium	169		0.0852	0.500	1	03/28/2024 16:24	WG2252922
Cadmium	2.81		0.0471	0.500	1	03/28/2024 16:24	WG2252922
Copper	167		0.400	2.00	1	03/28/2024 16:24	WG2252922
Iron	19400		2.24	10.0	1	03/28/2024 16:24	WG2252922
Lead	19.2		0.208	0.500	1	03/28/2024 16:24	WG2252922
Manganese	321		0.133	1.00	1	03/28/2024 16:24	WG2252922
Nickel	38.4		0.132	2.00	1	03/28/2024 16:24	WG2252922
Silver	0.552	E4	0.127	1.00	1	03/28/2024 16:24	WG2252922
Thallium	U		0.394	2.00	1	03/28/2024 16:24	WG2252922
Zinc	94.5		0.832	5.00	1	03/28/2024 16:24	WG2252922

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Gl

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Al

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Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.415	E4	0.0478	15.0	5	03/29/2024 01:15	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.79	E4	0.544	2.00	1	03/28/2024 16:28	WG2252922
Arsenic	28.6		0.518	2.00	1	03/28/2024 16:28	WG2252922
Barium	142		0.0852	0.500	1	03/28/2024 16:28	WG2252922
Cadmium	11.5		0.0471	0.500	1	03/28/2024 16:28	WG2252922
Copper	533		0.400	2.00	1	03/28/2024 16:28	WG2252922
Iron	19600		2.24	10.0	1	03/28/2024 16:28	WG2252922
Lead	70.5		0.208	0.500	1	03/28/2024 16:28	WG2252922
Manganese	391		0.133	1.00	1	03/28/2024 16:28	WG2252922
Nickel	29.9		0.132	2.00	1	03/28/2024 16:28	WG2252922
Silver	0.732	E4	0.127	1.00	1	03/28/2024 16:28	WG2252922
Thallium	0.500	E4	0.394	2.00	1	03/28/2024 16:28	WG2252922
Zinc	259		0.832	5.00	1	03/28/2024 16:28	WG2252922

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.335	E4	0.0478	15.0	5	03/29/2024 01:18	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	2.12		0.544	2.00	1	03/28/2024 16:31	WG2252922
Arsenic	11.5		0.518	2.00	1	03/28/2024 16:31	WG2252922
Barium	133		0.0852	0.500	1	03/28/2024 16:31	WG2252922
Cadmium	0.849		0.0471	0.500	1	03/28/2024 16:31	WG2252922
Copper	103		0.400	2.00	1	03/28/2024 16:31	WG2252922
Iron	24700		2.24	10.0	1	03/28/2024 16:31	WG2252922
Lead	22.2		0.208	0.500	1	03/28/2024 16:31	WG2252922
Manganese	422		0.133	1.00	1	03/28/2024 16:31	WG2252922
Nickel	42.3		0.132	2.00	1	03/28/2024 16:31	WG2252922
Silver	0.236	E4	0.127	1.00	1	03/28/2024 16:31	WG2252922
Thallium	1.16	E4	0.394	2.00	1	03/28/2024 16:31	WG2252922
Zinc	93.8		0.832	5.00	1	03/28/2024 16:31	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.399	E4	0.0478	15.0	5	03/29/2024 01:21	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	U		0.544	2.00	1	03/28/2024 16:34	WG2252922
Arsenic	6.22		0.518	2.00	1	03/28/2024 16:34	WG2252922
Barium	102		0.0852	0.500	1	03/28/2024 16:34	WG2252922
Cadmium	U		0.0471	0.500	1	03/28/2024 16:34	WG2252922
Copper	21.5		0.400	2.00	1	03/28/2024 16:34	WG2252922
Iron	13900		2.24	10.0	1	03/28/2024 16:34	WG2252922
Lead	7.26		0.208	0.500	1	03/28/2024 16:34	WG2252922
Manganese	290		0.133	1.00	1	03/28/2024 16:34	WG2252922
Nickel	7.77		0.132	2.00	1	03/28/2024 16:34	WG2252922
Silver	U		0.127	1.00	1	03/28/2024 16:34	WG2252922
Thallium	0.454	E4	0.394	2.00	1	03/28/2024 16:34	WG2252922
Zinc	76.0		0.832	5.00	1	03/28/2024 16:34	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.961	E4	0.0478	15.0	5	03/29/2024 01:25	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	2.33		0.544	2.00	1	03/28/2024 16:37	WG2252922
Arsenic	4.22		0.518	2.00	1	03/28/2024 16:37	WG2252922
Barium	202		0.0852	0.500	1	03/28/2024 16:37	WG2252922
Cadmium	0.168	E4	0.0471	0.500	1	03/28/2024 16:37	WG2252922
Copper	280		0.400	2.00	1	03/28/2024 16:37	WG2252922
Iron	25900		2.24	10.0	1	03/28/2024 16:37	WG2252922
Lead	14.6		0.208	0.500	1	03/28/2024 16:37	WG2252922
Manganese	417		0.133	1.00	1	03/28/2024 16:37	WG2252922
Nickel	74.4		0.132	2.00	1	03/28/2024 16:37	WG2252922
Silver	0.228	E4	0.127	1.00	1	03/28/2024 16:37	WG2252922
Thallium	0.740	E4	0.394	2.00	1	03/28/2024 16:37	WG2252922
Zinc	317		0.832	5.00	1	03/28/2024 16:37	WG2252922

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.509	E4	0.0478	15.0	5	03/29/2024 01:28	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.62	E4	0.544	2.00	1	03/28/2024 16:40	WG2252922
Arsenic	42.2		0.518	2.00	1	03/28/2024 16:40	WG2252922
Barium	221		0.0852	0.500	1	03/28/2024 16:40	WG2252922
Cadmium	5.17		0.0471	0.500	1	03/28/2024 16:40	WG2252922
Copper	1930		0.400	2.00	1	03/28/2024 16:40	WG2252922
Iron	36200		2.24	10.0	1	03/28/2024 16:40	WG2252922
Lead	98.6		0.208	0.500	1	03/28/2024 16:40	WG2252922
Manganese	421		0.133	1.00	1	03/28/2024 16:40	WG2252922
Nickel	40.1		0.132	2.00	1	03/28/2024 16:40	WG2252922
Silver	1.58		0.127	1.00	1	03/28/2024 16:40	WG2252922
Thallium	1.11	E4	0.394	2.00	1	03/28/2024 16:40	WG2252922
Zinc	1370		0.832	5.00	1	03/28/2024 16:40	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.585	E4	0.0478	15.0	5	03/29/2024 01:31	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	0.906	E4	0.544	2.00	1	03/28/2024 16:49	WG2252922
Arsenic	9.81		0.518	2.00	1	03/28/2024 16:49	WG2252922
Barium	97.2		0.0852	0.500	1	03/28/2024 16:49	WG2252922
Cadmium	1.89		0.0471	0.500	1	03/28/2024 16:49	WG2252922
Copper	147		0.400	2.00	1	03/28/2024 16:49	WG2252922
Iron	16700		2.24	10.0	1	03/28/2024 16:49	WG2252922
Lead	13.1		0.208	0.500	1	03/28/2024 16:49	WG2252922
Manganese	280		0.133	1.00	1	03/28/2024 16:49	WG2252922
Nickel	25.5		0.132	2.00	1	03/28/2024 16:49	WG2252922
Silver	U		0.127	1.00	1	03/28/2024 16:49	WG2252922
Thallium	U		0.394	2.00	1	03/28/2024 16:49	WG2252922
Zinc	552		0.832	5.00	1	03/28/2024 16:49	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.314	E4	0.0478	15.0	5	03/29/2024 01:41	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.544	2.00	1	03/28/2024 16:52	WG2252922
Arsenic	9.33		0.518	2.00	1	03/28/2024 16:52	WG2252922
Barium	284		0.0852	0.500	1	03/28/2024 16:52	WG2252922
Cadmium	U		0.0471	0.500	1	03/28/2024 16:52	WG2252922
Copper	601		0.400	2.00	1	03/28/2024 16:52	WG2252922
Iron	30500		2.24	10.0	1	03/28/2024 16:52	WG2252922
Lead	15.3		0.208	0.500	1	03/28/2024 16:52	WG2252922
Manganese	200		0.133	1.00	1	03/28/2024 16:52	WG2252922
Nickel	21.6		0.132	2.00	1	03/28/2024 16:52	WG2252922
Silver	0.379	E4	0.127	1.00	1	03/28/2024 16:52	WG2252922
Thallium	0.566	E4	0.394	2.00	1	03/28/2024 16:52	WG2252922
Zinc	598		0.832	5.00	1	03/28/2024 16:52	WG2252922

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.680	E4	0.0478	15.0	5	03/29/2024 01:45	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.882	E4	0.544	2.00	1	03/28/2024 16:55	WG2252922
Arsenic	8.80		0.518	2.00	1	03/28/2024 16:55	WG2252922
Barium	170		0.0852	0.500	1	03/28/2024 16:55	WG2252922
Cadmium	0.479	E4	0.0471	0.500	1	03/28/2024 16:55	WG2252922
Copper	63.5		0.400	2.00	1	03/28/2024 16:55	WG2252922
Iron	18500		2.24	10.0	1	03/28/2024 16:55	WG2252922
Lead	11.0		0.208	0.500	1	03/28/2024 16:55	WG2252922
Manganese	375		0.133	1.00	1	03/28/2024 16:55	WG2252922
Nickel	25.5		0.132	2.00	1	03/28/2024 16:55	WG2252922
Silver	U		0.127	1.00	1	03/28/2024 16:55	WG2252922
Thallium	U		0.394	2.00	1	03/28/2024 16:55	WG2252922
Zinc	126		0.832	5.00	1	03/28/2024 16:55	WG2252922

1
Cp

2
Tc

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Ss

4
Cn

5
Sr

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Qc

7
Gl

8
Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.574	E4	0.0478	15.0	5	03/29/2024 01:48	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.597	E4	0.544	2.00	1	03/28/2024 16:58	WG2252922
Arsenic	8.57		0.518	2.00	1	03/28/2024 16:58	WG2252922
Barium	89.7		0.0852	0.500	1	03/28/2024 16:58	WG2252922
Cadmium	U		0.0471	0.500	1	03/28/2024 16:58	WG2252922
Copper	29.5		0.400	2.00	1	03/28/2024 16:58	WG2252922
Iron	15300		2.24	10.0	1	03/28/2024 16:58	WG2252922
Lead	8.05		0.208	0.500	1	03/28/2024 16:58	WG2252922
Manganese	287		0.133	1.00	1	03/28/2024 16:58	WG2252922
Nickel	8.93		0.132	2.00	1	03/28/2024 16:58	WG2252922
Silver	U		0.127	1.00	1	03/28/2024 16:58	WG2252922
Thallium	U		0.394	2.00	1	03/28/2024 16:58	WG2252922
Zinc	101		0.832	5.00	1	03/28/2024 16:58	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.851	E4	0.0478	15.0	5	03/29/2024 01:51	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.11	E4	0.544	2.00	1	03/28/2024 17:01	WG2252922
Arsenic	8.26		0.518	2.00	1	03/28/2024 17:01	WG2252922
Barium	120		0.0852	0.500	1	03/28/2024 17:01	WG2252922
Cadmium	0.875		0.0471	0.500	1	03/28/2024 17:01	WG2252922
Copper	50.9		0.400	2.00	1	03/28/2024 17:01	WG2252922
Iron	11200		2.24	10.0	1	03/28/2024 17:01	WG2252922
Lead	20.1		0.208	0.500	1	03/28/2024 17:01	WG2252922
Manganese	221		0.133	1.00	1	03/28/2024 17:01	WG2252922
Nickel	25.1		0.132	2.00	1	03/28/2024 17:01	WG2252922
Silver	0.210	E4	0.127	1.00	1	03/28/2024 17:01	WG2252922
Thallium	U		0.394	2.00	1	03/28/2024 17:01	WG2252922
Zinc	284		0.832	5.00	1	03/28/2024 17:01	WG2252922

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

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.375	E4	0.0478	15.0	5	03/29/2024 01:55	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.62	E4	0.544	2.00	1	03/28/2024 17:05	WG2252922
Arsenic	8.65		0.518	2.00	1	03/28/2024 17:05	WG2252922
Barium	106		0.0852	0.500	1	03/28/2024 17:05	WG2252922
Cadmium	0.367	E4	0.0471	0.500	1	03/28/2024 17:05	WG2252922
Copper	35.2		0.400	2.00	1	03/28/2024 17:05	WG2252922
Iron	16600		2.24	10.0	1	03/28/2024 17:05	WG2252922
Lead	8.07		0.208	0.500	1	03/28/2024 17:05	WG2252922
Manganese	315		0.133	1.00	1	03/28/2024 17:05	WG2252922
Nickel	32.3		0.132	2.00	1	03/28/2024 17:05	WG2252922
Silver	0.184	E4	0.127	1.00	1	03/28/2024 17:05	WG2252922
Thallium	U		0.394	2.00	1	03/28/2024 17:05	WG2252922
Zinc	70.1		0.832	5.00	1	03/28/2024 17:05	WG2252922

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.452	E4	0.0478	15.0	5	03/29/2024 01:58	WG2252919

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	U		0.544	2.00	1	03/28/2024 15:22	WG2252917
Arsenic	172		0.518	2.00	1	03/28/2024 15:22	WG2252917
Barium	86.2		0.0852	0.500	1	03/28/2024 15:22	WG2252917
Cadmium	3.67		0.0471	0.500	1	03/28/2024 15:22	WG2252917
Copper	1900		0.400	2.00	1	03/28/2024 15:22	WG2252917
Iron	51100		11.2	50.0	5	03/28/2024 18:24	WG2252917
Lead	101		0.208	0.500	1	03/28/2024 15:22	WG2252917
Manganese	35.3		0.133	1.00	1	03/28/2024 15:22	WG2252917
Nickel	0.586	E4	0.132	2.00	1	03/28/2024 15:22	WG2252917
Silver	0.839	E4	0.127	1.00	1	03/28/2024 15:22	WG2252917
Thallium	1.08	E4	0.394	2.00	1	03/28/2024 15:22	WG2252917
Zinc	4620		4.16	25.0	5	03/28/2024 18:24	WG2252917

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	1.63	E4	0.0478	15.0	5	03/28/2024 23:22	WG2252918

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	U		0.544	2.00	1	03/28/2024 15:23	WG2252917
Arsenic	184		0.518	2.00	1	03/28/2024 15:23	WG2252917
Barium	84.7		0.0852	0.500	1	03/28/2024 15:23	WG2252917
Cadmium	3.13		0.0471	0.500	1	03/28/2024 15:23	WG2252917
Copper	1650		0.400	2.00	1	03/28/2024 15:23	WG2252917
Iron	45500		2.24	10.0	1	03/28/2024 15:23	WG2252917
Lead	101		0.208	0.500	1	03/28/2024 15:23	WG2252917
Manganese	31.5		0.133	1.00	1	03/28/2024 15:23	WG2252917
Nickel	0.515	E4	0.132	2.00	1	03/28/2024 15:23	WG2252917
Silver	0.685	E4	0.127	1.00	1	03/28/2024 15:23	WG2252917
Thallium	0.875	E4	0.394	2.00	1	03/28/2024 15:23	WG2252917
Zinc	4050		4.16	25.0	5	03/28/2024 18:26	WG2252917

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	1.61	E4	0.0478	15.0	5	03/28/2024 23:26	WG2252918

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.544	2.00	1	03/28/2024 15:25	WG2252917
Arsenic	25.5		0.518	2.00	1	03/28/2024 15:25	WG2252917
Barium	242		0.0852	0.500	1	03/28/2024 15:25	WG2252917
Cadmium	7.24		0.0471	0.500	1	03/28/2024 15:25	WG2252917
Copper	925		0.400	2.00	1	03/28/2024 15:25	WG2252917
Iron	18500		2.24	10.0	1	03/28/2024 15:25	WG2252917
Lead	174		0.208	0.500	1	03/28/2024 15:25	WG2252917
Manganese	310		0.133	1.00	1	03/28/2024 15:25	WG2252917
Nickel	27.8		0.132	2.00	1	03/28/2024 15:25	WG2252917
Silver	1.43		0.127	1.00	1	03/28/2024 15:25	WG2252917
Thallium	U		0.394	2.00	1	03/28/2024 15:25	WG2252917
Zinc	494		0.832	5.00	1	03/28/2024 15:25	WG2252917

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.356	E4	0.0478	15.0	5	03/28/2024 23:29	WG2252918

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	U	M2	0.544	2.00	1	03/28/2024 15:13	WG2252917
Arsenic	17.9		0.518	2.00	1	03/28/2024 15:13	WG2252917
Barium	174		0.0852	0.500	1	03/28/2024 15:13	WG2252917
Cadmium	4.85		0.0471	0.500	1	03/28/2024 15:13	WG2252917
Copper	559	M3	0.400	2.00	1	03/28/2024 15:13	WG2252917
Iron	13800	M3 R5	2.24	10.0	1	03/28/2024 15:13	WG2252917
Lead	67.6		0.208	0.500	1	03/28/2024 15:13	WG2252917
Manganese	238		0.133	1.00	1	03/28/2024 15:13	WG2252917
Nickel	20.2		0.132	2.00	1	03/28/2024 15:13	WG2252917
Silver	1.20		0.127	1.00	1	03/28/2024 15:13	WG2252917
Thallium	U		0.394	2.00	1	03/28/2024 15:13	WG2252917
Zinc	271	M1	0.832	5.00	1	03/28/2024 15:13	WG2252917

1
Cp

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Tc

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Ss

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Cn

5
Sr

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Qc

7
Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.364	E4	0.0478	15.0	5	03/28/2024 23:06	WG2252918

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.544	2.00	1	03/28/2024 15:30	WG2252917
Arsenic	89.2		0.518	2.00	1	03/28/2024 15:30	WG2252917
Barium	111		0.0852	0.500	1	03/28/2024 15:30	WG2252917
Cadmium	4.58		0.0471	0.500	1	03/28/2024 15:30	WG2252917
Copper	1140		0.400	2.00	1	03/28/2024 15:30	WG2252917
Iron	43900		2.24	10.0	1	03/28/2024 15:30	WG2252917
Lead	60.2		0.208	0.500	1	03/28/2024 15:30	WG2252917
Manganese	199		0.133	1.00	1	03/28/2024 15:30	WG2252917
Nickel	21.6		0.132	2.00	1	03/28/2024 15:30	WG2252917
Silver	1.01		0.127	1.00	1	03/28/2024 15:30	WG2252917
Thallium	U		0.394	2.00	1	03/28/2024 15:30	WG2252917
Zinc	5110		4.16	25.0	5	03/28/2024 18:28	WG2252917

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

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.971	E4	0.0478	15.0	5	03/28/2024 23:44	WG2252918

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.544	2.00	1	03/28/2024 15:32	WG2252917
Arsenic	35.7		0.518	2.00	1	03/28/2024 15:32	WG2252917
Barium	125		0.0852	0.500	1	03/28/2024 15:32	WG2252917
Cadmium	3.85		0.0471	0.500	1	03/28/2024 15:32	WG2252917
Copper	13700		2.00	10.0	5	03/28/2024 18:30	WG2252917
Iron	32200		2.24	10.0	1	03/28/2024 15:32	WG2252917
Lead	102		0.208	0.500	1	03/28/2024 15:32	WG2252917
Manganese	326		0.133	1.00	1	03/28/2024 15:32	WG2252917
Nickel	32.6		0.132	2.00	1	03/28/2024 15:32	WG2252917
Silver	7.80		0.127	1.00	1	03/28/2024 15:32	WG2252917
Thallium	U		0.394	2.00	1	03/28/2024 15:32	WG2252917
Zinc	1260		0.832	5.00	1	03/28/2024 15:32	WG2252917

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.408	E4	0.0478	15.0	5	03/28/2024 23:49	WG2252918

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.544	2.00	1	03/28/2024 15:33	WG2252917
Arsenic	17.8		0.518	2.00	1	03/28/2024 15:33	WG2252917
Barium	266		0.0852	0.500	1	03/28/2024 15:33	WG2252917
Cadmium	6.91		0.0471	0.500	1	03/28/2024 15:33	WG2252917
Copper	205		0.400	2.00	1	03/28/2024 15:33	WG2252917
Iron	28200		2.24	10.0	1	03/28/2024 15:33	WG2252917
Lead	26.8		0.208	0.500	1	03/28/2024 15:33	WG2252917
Manganese	607		0.133	1.00	1	03/28/2024 15:33	WG2252917
Nickel	43.2		0.132	2.00	1	03/28/2024 15:33	WG2252917
Silver	0.527	E4	0.127	1.00	1	03/28/2024 15:33	WG2252917
Thallium	U		0.394	2.00	1	03/28/2024 15:33	WG2252917
Zinc	241		0.832	5.00	1	03/28/2024 15:33	WG2252917

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.436	E4	0.0478	15.0	5	03/28/2024 23:52	WG2252918

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.544	2.00	1	03/28/2024 15:35	WG2252917
Arsenic	12.0		0.518	2.00	1	03/28/2024 15:35	WG2252917
Barium	187		0.0852	0.500	1	03/28/2024 15:35	WG2252917
Cadmium	3.97		0.0471	0.500	1	03/28/2024 15:35	WG2252917
Copper	236		0.400	2.00	1	03/28/2024 15:35	WG2252917
Iron	18400		2.24	10.0	1	03/28/2024 15:35	WG2252917
Lead	19.6		0.208	0.500	1	03/28/2024 15:35	WG2252917
Manganese	310		0.133	1.00	1	03/28/2024 15:35	WG2252917
Nickel	43.3		0.132	2.00	1	03/28/2024 15:35	WG2252917
Silver	1.10		0.127	1.00	1	03/28/2024 15:35	WG2252917
Thallium	U		0.394	2.00	1	03/28/2024 15:35	WG2252917
Zinc	496		0.832	5.00	1	03/28/2024 15:35	WG2252917

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Uranium	0.382	E4	0.0478	15.0	5	03/28/2024 23:55	WG2252918

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	U		0.544	2.00	1	03/28/2024 15:37	WG2252917
Arsenic	10.5		0.518	2.00	1	03/28/2024 15:37	WG2252917
Barium	164		0.0852	0.500	1	03/28/2024 15:37	WG2252917
Cadmium	0.448	<u>E4</u>	0.0471	0.500	1	03/28/2024 15:37	WG2252917
Copper	53.3		0.400	2.00	1	03/28/2024 15:37	WG2252917
Iron	33900		2.24	10.0	1	03/28/2024 15:37	WG2252917
Lead	15.2		0.208	0.500	1	03/28/2024 15:37	WG2252917
Manganese	475		0.133	1.00	1	03/28/2024 15:37	WG2252917
Nickel	48.5		0.132	2.00	1	03/28/2024 15:37	WG2252917
Silver	0.161	<u>E4</u>	0.127	1.00	1	03/28/2024 15:37	WG2252917
Thallium	U		0.394	2.00	1	03/28/2024 15:37	WG2252917
Zinc	96.8		0.832	5.00	1	03/28/2024 15:37	WG2252917

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

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.430	<u>E4</u>	0.0478	15.0	5	03/28/2024 23:59	WG2252918

Metals (ICP) by Method 6010D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Antimony	U		0.544	2.00	1	03/28/2024 15:38	WG2252917
Arsenic	18.9		0.518	2.00	1	03/28/2024 15:38	WG2252917
Barium	162		0.0852	0.500	1	03/28/2024 15:38	WG2252917
Cadmium	3.33		0.0471	0.500	1	03/28/2024 15:38	WG2252917
Copper	317		0.400	2.00	1	03/28/2024 15:38	WG2252917
Iron	20600		2.24	10.0	1	03/28/2024 15:38	WG2252917
Lead	50.7		0.208	0.500	1	03/28/2024 15:38	WG2252917
Manganese	403		0.133	1.00	1	03/28/2024 15:38	WG2252917
Nickel	37.4		0.132	2.00	1	03/28/2024 15:38	WG2252917
Silver	1.23		0.127	1.00	1	03/28/2024 15:38	WG2252917
Thallium	U		0.394	2.00	1	03/28/2024 15:38	WG2252917
Zinc	277		0.832	5.00	1	03/28/2024 15:38	WG2252917

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Uranium	0.431	E4	0.0478	15.0	5	03/29/2024 00:02	WG2252918

Method Blank (MB)

(MB) R4051210-1 03/28/24 15:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.544	2.00
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Iron	U		2.24	10.0
Lead	U		0.208	0.500
Manganese	U		0.133	1.00
Nickel	U		0.132	2.00
Silver	U		0.127	1.00
Thallium	U		0.394	2.00
Zinc	U		0.832	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4051210-2 03/28/24 15:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	97.5	97.5	80.0-120	
Arsenic	100	98.4	98.4	80.0-120	
Barium	100	104	104	80.0-120	
Cadmium	100	95.9	95.9	80.0-120	
Copper	100	103	103	80.0-120	
Iron	1000	988	98.8	80.0-120	
Lead	100	95.2	95.2	80.0-120	
Manganese	100	101	101	80.0-120	
Nickel	100	94.9	94.9	80.0-120	
Silver	20.0	18.0	89.8	80.0-120	
Thallium	100	99.3	99.3	80.0-120	
Zinc	100	102	102	80.0-120	

L1718404-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1718404-24 03/28/24 15:13 • (MS) R4051210-5 03/28/24 15:18 • (MSD) R4051210-6 03/28/24 15:20

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 %
Antimony	100	U	58.1	57.8	58.1	57.8	1	75.0-125	M2	M2	0.581	20
Arsenic	100	17.9	115	117	96.6	98.6	1	75.0-125			1.75	20
Barium	100	174	257	257	82.9	83.0	1	75.0-125			0.0477	20

L1718404-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1718404-24 03/28/24 15:13 • (MS) R4051210-5 03/28/24 15:18 • (MSD) R4051210-6 03/28/24 15:20

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 %
Cadmium	100	4.85	98.5	98.6	93.6	93.8	1	75.0-125			0.143	20
Copper	100	559	719	662	160	103	1	75.0-125	M3		8.25	20
Iron	1000	13800	13700	18000	0.000	421	1	75.0-125	M3	M3 R5	27.2	20
Lead	100	67.6	189	160	122	92.1	1	75.0-125			16.9	20
Manganese	100	238	319	340	80.6	102	1	75.0-125			6.37	20
Nickel	100	20.2	120	121	99.6	101	1	75.0-125			0.818	20
Silver	20.0	1.20	19.7	19.8	92.6	92.9	1	75.0-125			0.261	20
Thallium	100	U	94.3	94.9	94.3	94.9	1	75.0-125			0.630	20
Zinc	100	271	372	398	101	127	1	75.0-125		M1	6.75	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4051310-1 03/28/24 15:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.544	2.00
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Iron	U		2.24	10.0
Lead	U		0.208	0.500
Manganese	U		0.133	1.00
Nickel	0.184	E4	0.132	2.00
Silver	U		0.127	1.00
Thallium	U		0.394	2.00
Zinc	U		0.832	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4051310-2 03/28/24 15:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	97.2	97.2	80.0-120	
Arsenic	100	95.8	95.8	80.0-120	
Barium	100	104	104	80.0-120	
Cadmium	100	95.9	95.9	80.0-120	
Copper	100	101	101	80.0-120	
Iron	1000	998	99.8	80.0-120	
Lead	100	94.6	94.6	80.0-120	
Manganese	100	103	103	80.0-120	
Nickel	100	97.3	97.3	80.0-120	
Silver	20.0	18.8	94.0	80.0-120	
Thallium	100	100	100	80.0-120	
Zinc	100	99.9	99.9	80.0-120	

L1718404-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1718404-04 03/28/24 15:41 • (MS) R4051310-5 03/28/24 15:50 • (MSD) R4051310-6 03/28/24 15:53

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 %
Antimony	100	2.05	50.2	52.9	48.2	50.9	1	75.0-125	M2	M2	5.33	20
Arsenic	100	16.2	107	107	90.7	90.7	1	75.0-125			0.0416	20
Barium	100	154	227	224	72.8	70.0	1	75.0-125	M2	M2	1.23	20

L1718404-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1718404-04 03/28/24 15:41 • (MS) R4051310-5 03/28/24 15:50 • (MSD) R4051310-6 03/28/24 15:53

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 %
Cadmium	100	1.55	97.4	98.2	95.9	96.7	1	75.0-125			0.795	20
Copper	100	109	220	217	111	109	1	75.0-125			1.15	20
Iron	1000	27100	24200	24400	0.000	0.000	1	75.0-125	M3	M3	0.882	20
Lead	100	25.8	117	115	91.2	89.2	1	75.0-125			1.73	20
Manganese	100	473	548	513	74.8	39.3	1	75.0-125	M3	M3	6.69	20
Nickel	100	30.9	130	129	98.8	98.1	1	75.0-125			0.601	20
Silver	20.0	0.306	19.6	19.9	96.7	97.8	1	75.0-125			1.17	20
Thallium	100	0.971	92.9	93.2	91.9	92.2	1	75.0-125			0.366	20
Zinc	100	129	238	225	109	96.7	1	75.0-125			5.46	20

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

Method Blank (MB)

(MB) R4051358-1 03/28/24 22:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Uranium	U		0.0478	15.0

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4051358-2 03/28/24 23:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Uranium	100	97.1	97.1	80.0-120	

⁴Cn

⁵Sr

L1718404-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1718404-24 03/28/24 23:06 • (MS) R4051358-5 03/28/24 23:16 • (MSD) R4051358-6 03/28/24 23:19

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 %
Uranium	100	0.364	93.9	94.6	93.5	94.2	5	75.0-125			0.785	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4051433-1 03/29/24 00:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Uranium	U		0.0478	15.0

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R4051433-2 03/29/24 00:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Uranium	100	103	103	80.0-120	

4 Cn

5 Sr

L1718404-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1718404-04 03/29/24 00:28 • (MS) R4051433-5 03/29/24 00:38 • (MSD) R4051433-6 03/29/24 00:42

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 %
Uranium	100	0.401	101	100	101	99.9	5	75.0-125			1.04	20

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

MDL	Method Detection Limit.
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
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.
M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
R5	MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
Hydro Geo Chem - Tucson, AZ
 51 West Wetmore, Ste 101
 Tucson, AZ 85705-1678

Billing Information:
Tanya Bentley
 51 West Wetmore, Ste 101
 Tucson, AZ 85705-1678

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

Report to:
Abra Bentley

Email To: **abrab@hgcinc.com**

Project Description:
6th & Birch

City/State
 Collected: **Cottonwood, AZ**

Please Circle:
 PT (MT) CT ET

Phone: **520-293-1500**


Client Project #
2024007

Lab Project #
HYDGEOTAZ-6TH&BIRCH

Collected by (print):
Luis Montijo

Site/Facility ID #

P.O. #

Collected by (signature):

 Immediately Packed on Ice N ___ Y

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

Quote #
 Date Results Needed

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

525 S 12 th St-1	Grab	SS		3/21/24	09:12	1
525 S 12 th St-2		SS		3/21/24	09:12	1
525 S 12 th St-3		SS		3/21/24	09:12	1
319 S 6 th St-3		SS		3/21/24	1002	1
985 E Mingus Ave-1		SS		3/20/24	1722	1
985 E Mingus Ave-2		SS		3/20/24	1722	1
S 8 th place-1		SS		3/20/24	1645	1
S 8 th place-3		SS		3/20/24	1645	1
18 E Beech-1		SS		3/20/24	1339	1
950 E Mingus Ave-1		SS		3/20/24	1752	1

Metals 20zClr-NoPres



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 # **L1718404**
 Table # **FO66**
 Acctnum: **HYDGEOTAZ**
 Template: **T248644**
 Prelogin: **P1061544**
 PM: **288 - Daphne Richards**
 PB:
 Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

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

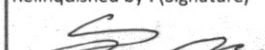
Remarks: Metals = Cu, Pb, Zn, Ni, Fe, Ag, Mn, Ba, Cd, Sb, As, U and TI

pH _____ Temp _____
 Flow _____ Other _____

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


Samples returned via:
 ___ UPS FedEx ___ Courier

Tracking # **6727 1909 1604**

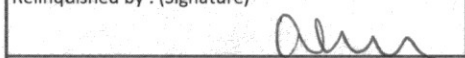
Relinquished by: (Signature)


Date: **3/22/24**

Time: **1330 PM**

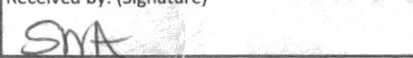
Received by: (Signature)


Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Relinquished by: (Signature)


Date: **3/22/24**

Time: **1800**

Received by: (Signature)


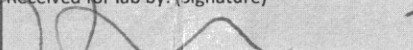
Temp: **2.0 + 0 = 2.0** °C
 Bottles Received: **30**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)


Date: **3/23/24** Time: **9:00**

Hold: Conditions: **NCF / OK**

PNPAAZ

Company Name/Address:
Hydro Geo Chem - Tucson, AZ
 51 West Wetmore, Ste 101
 Tucson, AZ 85705-1678

Billing Information:
Tanya Bentley
 51 West Wetmore, Ste 101
 Tucson, AZ 85705-1678

Pres
 Chk

Analysis / Container / Preservative



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>

Report to:
Abra Bentley

Email To: **abrab@hgcinc.com**

Project Description:
6th & Birch

City/State Collected: **Cottonwood, AZ**

Please Circle:
 PT MT CT ET

Phone: **520-293-1500**

Client Project #
2024007

Lab Project #
HYDGEOTAZ-6TH&BIRCH

Collected by (print):
Luis Montijo

Site/Facility ID #

P.O. #

Collected by (signature):

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

Quote #
 Date Results Needed

Immediately Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Metals 2ozClr-NoPres
Mineral resources-2	Grab	SS		3/21/24	1451	1	X
mineral resources-3		SS		3/21/24	1451	1	X
333 Swillard st-1		SS		3/21/24	1409	1	X
333 Swillard st-2		SS		3/21/24	1409	1	X
319 S 6th st-1		SS		3/21/24	1602	1	X
319 S 6th st-2		SS		3/21/24	1602	1	X
751 E Aspen st-1		SS		3/21/24	1252	1	X
705 E Aspen st-1		SS		3/21/24	1142	1	X
705 E Aspen st-2		SS		3/21/24	1142	1	X
57 E Aspen st-1		SS		3/21/24	1111	1	X

SDG # **L1718404**
 Table # **F066**
 Acctnum: **HYDGEOTAZ**
 Template: **T248644**
 Prelogin: **P1061544**
 PM: **288 - Daphne Richards**
 PB:
 Shipped Via: **FedEX Ground**

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

Remarks: Metals = Cu, Pb, Zn, Ni, Fe, Ag, Mn, Ba, Cd, Sb, As, U and TI

pH _____ Temp _____
 Flow _____ Other _____

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

Samples returned via: UPS FedEx Courier
 Tracking # **6727 1909 1604**

Relinquished by: (Signature)

Date: **3/22/24**
 Time: **7:30 AM**

Received by: (Signature)

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

Relinquished by: (Signature)

Date: **3/22/24**
 Time: **1800**

Received by: (Signature)

Temp: **20.0°C** Bottles Received: **2.0 + 0 = 2.0 30**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: **3/23/24**
 Time: **900**

Received for lab by: (Signature)

Date: **3/23/24** Time: **900**

Hold: Condition: NCF OK

PNPAZ