

Hydro Geo Chem - Tucson, AZ

Sample Delivery Group: L1718398
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:



Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1	1 Cp
Tc: Table of Contents	2	2 Tc
Ss: Sample Summary	3	3 Ss
Cn: Case Narrative	5	4 Cn
Sr: Sample Results	6	5 Sr
333 S WILLARD ST-3 L1718398-01	6	6 Qc
315 S WILLARD ST-2 L1718398-02	7	7 Gl
333 S WILLARD ST-4 L1718398-03	8	8 Al
1924 N WILLARD ST-1 L1718398-04	9	9 Sc
595 E. CHERRY ST-1 L1718398-05	10	
350 S 12TH-2 L1718398-06	11	
350 S 12TH-1 L1718398-07	12	
15E ASPEN ST-1 L1718398-08	13	
609 E CHERRY ST-1 L1718398-09	14	
193 E STATE ROUTE 89A-1 L1718398-10	15	
Qc: Quality Control Summary	16	
Metals (ICP) by Method 6010D	16	
Gl: Glossary of Terms	18	
Al: Accreditations & Locations	19	
Sc: Sample Chain of Custody	20	

SAMPLE SUMMARY

333 S WILLARD ST-3 L1718398-01 GW

Collected by Luis Montijo Collected date/time 03/21/24 14:08 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2254245	1	03/27/24 04:19	03/27/24 12:39	DJS	Mt. Juliet, TN



315 S WILLARD ST-2 L1718398-02 GW

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	WG2254245	1	03/27/24 04:19	03/27/24 12:42	DJS	Mt. Juliet, TN



333 S WILLARD ST-4 L1718398-03 GW

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	WG2254245	1	03/27/24 04:19	03/27/24 12:45	DJS	Mt. Juliet, TN



1924 N WILLARD ST-1 L1718398-04 GW

Collected by Luis Montijo Collected date/time 03/21/24 13:41 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2254245	1	03/27/24 04:19	03/27/24 12:47	DJS	Mt. Juliet, TN



595 E. CHERRY ST-1 L1718398-05 GW

Collected by Luis Montijo Collected date/time 03/22/24 09:31 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2254245	1	03/27/24 04:19	03/27/24 12:50	DJS	Mt. Juliet, TN



350 S 12TH-2 L1718398-06 GW

Collected by Luis Montijo Collected date/time 03/20/24 12:03 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2254245	1	03/27/24 04:19	03/27/24 12:53	DJS	Mt. Juliet, TN

350 S 12TH-1 L1718398-07 GW

Collected by Luis Montijo Collected date/time 03/20/24 11:43 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2254245	1	03/27/24 04:19	03/27/24 12:56	DJS	Mt. Juliet, TN

15E ASPEN ST-1 L1718398-08 GW

Collected by Luis Montijo Collected date/time 03/21/24 11:04 Received date/time 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2254245	1	03/27/24 04:19	03/27/24 12:58	DJS	Mt. Juliet, TN

SAMPLE SUMMARY

609 E CHERRY ST-1 L1718398-09 GW

Collected by: Luis Montijo
 Collected date/time: 03/22/24 09:48
 Received date/time: 03/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2254245	1	03/27/24 04:19	03/27/24 13:01	DJS	Mt. Juliet, TN

¹Cp

²Tc

³Ss

193 E STATE ROUTE 89A-1 L1718398-10 GW

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2254245	1	03/27/24 04:19	03/27/24 13:09	DJS	Mt. Juliet, TN

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

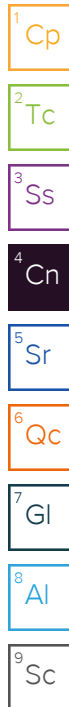
⁹Sc

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.



Daphne Richards
Project Manager



Report Revision History

Level II Report - Version 1: 03/27/24 15:42

Project Narrative

Sample id update

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 12:39	WG2254245
Arsenic,Dissolved	U		4.40	10.0	1	03/27/2024 12:39	WG2254245
Barium,Dissolved	47.2		0.736	5.00	1	03/27/2024 12:39	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 12:39	WG2254245
Copper,Dissolved	U		3.68	10.0	1	03/27/2024 12:39	WG2254245
Iron,Dissolved	U		18.0	100	1	03/27/2024 12:39	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 12:39	WG2254245
Manganese,Dissolved	5.35	E4	0.934	10.0	1	03/27/2024 12:39	WG2254245
Nickel,Dissolved	5.22	E4	1.61	10.0	1	03/27/2024 12:39	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 12:39	WG2254245
Zinc,Dissolved	36.2	E4	6.52	50.0	1	03/27/2024 12:39	WG2254245

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 ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 12:42	WG2254245
Arsenic,Dissolved	22.8		4.40	10.0	1	03/27/2024 12:42	WG2254245
Barium,Dissolved	471		0.736	5.00	1	03/27/2024 12:42	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 12:42	WG2254245
Copper,Dissolved	5.83	<u>E4</u>	3.68	10.0	1	03/27/2024 12:42	WG2254245
Iron,Dissolved	U		18.0	100	1	03/27/2024 12:42	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 12:42	WG2254245
Manganese,Dissolved	U		0.934	10.0	1	03/27/2024 12:42	WG2254245
Nickel,Dissolved	U		1.61	10.0	1	03/27/2024 12:42	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 12:42	WG2254245
Zinc,Dissolved	365		6.52	50.0	1	03/27/2024 12:42	WG2254245

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 ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 12:45	WG2254245
Arsenic,Dissolved	21.6		4.40	10.0	1	03/27/2024 12:45	WG2254245
Barium,Dissolved	295		0.736	5.00	1	03/27/2024 12:45	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 12:45	WG2254245
Copper,Dissolved	12.1		3.68	10.0	1	03/27/2024 12:45	WG2254245
Iron,Dissolved	U		18.0	100	1	03/27/2024 12:45	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 12:45	WG2254245
Manganese,Dissolved	U		0.934	10.0	1	03/27/2024 12:45	WG2254245
Nickel,Dissolved	U		1.61	10.0	1	03/27/2024 12:45	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 12:45	WG2254245
Zinc,Dissolved	36.3	<u>E4</u>	6.52	50.0	1	03/27/2024 12:45	WG2254245

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	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 12:47	WG2254245
Arsenic,Dissolved	6.43	<u>E4</u>	4.40	10.0	1	03/27/2024 12:47	WG2254245
Barium,Dissolved	100		0.736	5.00	1	03/27/2024 12:47	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 12:47	WG2254245
Copper,Dissolved	U		3.68	10.0	1	03/27/2024 12:47	WG2254245
Iron,Dissolved	U		18.0	100	1	03/27/2024 12:47	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 12:47	WG2254245
Manganese,Dissolved	2.12	<u>E4</u>	0.934	10.0	1	03/27/2024 12:47	WG2254245
Nickel,Dissolved	U		1.61	10.0	1	03/27/2024 12:47	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 12:47	WG2254245
Zinc,Dissolved	7.96	<u>E4</u>	6.52	50.0	1	03/27/2024 12:47	WG2254245

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 ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 12:50	WG2254245
Arsenic,Dissolved	15.3		4.40	10.0	1	03/27/2024 12:50	WG2254245
Barium,Dissolved	403		0.736	5.00	1	03/27/2024 12:50	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 12:50	WG2254245
Copper,Dissolved	17.8		3.68	10.0	1	03/27/2024 12:50	WG2254245
Iron,Dissolved	U		18.0	100	1	03/27/2024 12:50	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 12:50	WG2254245
Manganese,Dissolved	U		0.934	10.0	1	03/27/2024 12:50	WG2254245
Nickel,Dissolved	U		1.61	10.0	1	03/27/2024 12:50	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 12:50	WG2254245
Zinc,Dissolved	98.5		6.52	50.0	1	03/27/2024 12:50	WG2254245

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	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 12:53	WG2254245
Arsenic,Dissolved	16.9		4.40	10.0	1	03/27/2024 12:53	WG2254245
Barium,Dissolved	553		0.736	5.00	1	03/27/2024 12:53	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 12:53	WG2254245
Copper,Dissolved	U		3.68	10.0	1	03/27/2024 12:53	WG2254245
Iron,Dissolved	U		18.0	100	1	03/27/2024 12:53	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 12:53	WG2254245
Manganese,Dissolved	1.10	<u>E4</u>	0.934	10.0	1	03/27/2024 12:53	WG2254245
Nickel,Dissolved	U		1.61	10.0	1	03/27/2024 12:53	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 12:53	WG2254245
Zinc,Dissolved	52.3		6.52	50.0	1	03/27/2024 12:53	WG2254245

- 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 ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 12:56	WG2254245
Arsenic,Dissolved	U		4.40	10.0	1	03/27/2024 12:56	WG2254245
Barium,Dissolved	67.2		0.736	5.00	1	03/27/2024 12:56	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 12:56	WG2254245
Copper,Dissolved	13.5		3.68	10.0	1	03/27/2024 12:56	WG2254245
Iron,Dissolved	45.9	<u>E4</u>	18.0	100	1	03/27/2024 12:56	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 12:56	WG2254245
Manganese,Dissolved	30.9		0.934	10.0	1	03/27/2024 12:56	WG2254245
Nickel,Dissolved	U		1.61	10.0	1	03/27/2024 12:56	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 12:56	WG2254245
Zinc,Dissolved	22.2	<u>E4</u>	6.52	50.0	1	03/27/2024 12:56	WG2254245

- 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	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 12:58	WG2254245
Arsenic,Dissolved	U		4.40	10.0	1	03/27/2024 12:58	WG2254245
Barium,Dissolved	128		0.736	5.00	1	03/27/2024 12:58	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 12:58	WG2254245
Copper,Dissolved	8.17	E4	3.68	10.0	1	03/27/2024 12:58	WG2254245
Iron,Dissolved	U		18.0	100	1	03/27/2024 12:58	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 12:58	WG2254245
Manganese,Dissolved	8.17	E4	0.934	10.0	1	03/27/2024 12:58	WG2254245
Nickel,Dissolved	U		1.61	10.0	1	03/27/2024 12:58	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 12:58	WG2254245
Zinc,Dissolved	77.7		6.52	50.0	1	03/27/2024 12:58	WG2254245

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	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 13:01	WG2254245
Arsenic,Dissolved	17.6		4.40	10.0	1	03/27/2024 13:01	WG2254245
Barium,Dissolved	397		0.736	5.00	1	03/27/2024 13:01	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 13:01	WG2254245
Copper,Dissolved	6.11	<u>E4</u>	3.68	10.0	1	03/27/2024 13:01	WG2254245
Iron,Dissolved	U		18.0	100	1	03/27/2024 13:01	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 13:01	WG2254245
Manganese,Dissolved	U		0.934	10.0	1	03/27/2024 13:01	WG2254245
Nickel,Dissolved	U		1.61	10.0	1	03/27/2024 13:01	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 13:01	WG2254245
Zinc,Dissolved	39.2	<u>E4</u>	6.52	50.0	1	03/27/2024 13:01	WG2254245

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	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony,Dissolved	U		4.30	10.0	1	03/27/2024 13:09	WG2254245
Arsenic,Dissolved	21.7		4.40	10.0	1	03/27/2024 13:09	WG2254245
Barium,Dissolved	258		0.736	5.00	1	03/27/2024 13:09	WG2254245
Cadmium,Dissolved	U		0.479	2.00	1	03/27/2024 13:09	WG2254245
Copper,Dissolved	11.8		3.68	10.0	1	03/27/2024 13:09	WG2254245
Iron,Dissolved	U		18.0	100	1	03/27/2024 13:09	WG2254245
Lead,Dissolved	U		2.99	6.00	1	03/27/2024 13:09	WG2254245
Manganese,Dissolved	U		0.934	10.0	1	03/27/2024 13:09	WG2254245
Nickel,Dissolved	U		1.61	10.0	1	03/27/2024 13:09	WG2254245
Silver,Dissolved	U		1.54	5.00	1	03/27/2024 13:09	WG2254245
Zinc,Dissolved	53.7		6.52	50.0	1	03/27/2024 13:09	WG2254245

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

Method Blank (MB)

(MB) R4050554-1 03/27/24 12:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Antimony,Dissolved	U		4.30	10.0
Arsenic,Dissolved	U		4.40	10.0
Barium,Dissolved	U		0.736	5.00
Cadmium,Dissolved	U		0.479	2.00
Copper,Dissolved	U		3.68	10.0
Iron,Dissolved	U		18.0	100
Lead,Dissolved	U		2.99	6.00
Manganese,Dissolved	U		0.934	10.0
Nickel,Dissolved	U		1.61	10.0
Silver,Dissolved	U		1.54	5.00
Zinc,Dissolved	U		6.52	50.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4050554-2 03/27/24 12:07

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Antimony,Dissolved	1000	947	94.7	80.0-120	
Arsenic,Dissolved	1000	980	98.0	80.0-120	
Barium,Dissolved	1000	1020	102	80.0-120	
Cadmium,Dissolved	1000	961	96.1	80.0-120	
Copper,Dissolved	1000	1010	101	80.0-120	
Iron,Dissolved	10000	9980	99.8	80.0-120	
Lead,Dissolved	1000	971	97.1	80.0-120	
Manganese,Dissolved	1000	1060	106	80.0-120	
Nickel,Dissolved	1000	949	94.9	80.0-120	
Silver,Dissolved	200	198	99.1	80.0-120	
Zinc,Dissolved	1000	1020	102	80.0-120	

L1718396-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1718396-11 03/27/24 12:10 • (MS) R4050554-4 03/27/24 12:15 • (MSD) R4050554-5 03/27/24 12:18

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Antimony,Dissolved	1000	U	996	986	99.6	98.6	1	75.0-125			1.02	20
Arsenic,Dissolved	1000	U	1020	1010	102	101	1	75.0-125			1.20	20
Barium,Dissolved	1000	4.73	1040	1030	103	103	1	75.0-125			0.638	20
Cadmium,Dissolved	1000	U	987	984	98.7	98.4	1	75.0-125			0.306	20
Copper,Dissolved	1000	U	1000	1020	100	102	1	75.0-125			1.37	20

L1718396-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1718396-11 03/27/24 12:10 • (MS) R4050554-4 03/27/24 12:15 • (MSD) R4050554-5 03/27/24 12:18

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron,Dissolved	10000	49.3	10100	10200	100	102	1	75.0-125			1.40	20
Lead,Dissolved	1000	U	1000	998	100	99.8	1	75.0-125			0.325	20
Manganese,Dissolved	1000	148	1190	1210	104	106	1	75.0-125			1.49	20
Nickel,Dissolved	1000	U	972	966	97.2	96.6	1	75.0-125			0.642	20
Silver,Dissolved	200	U	197	201	98.7	100	1	75.0-125			1.77	20
Zinc,Dissolved	1000	10.3	1050	1040	104	103	1	75.0-125			0.778	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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

Qualifier	Description
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.

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 1 of 1
--	--	---	--	-------------	-------------------------------------	--	--	--	--	--	------------------------------

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 # 202407	Lab Project # HYDGEOTAZ-6TH&BIRCH
Collected by (print): Luis Montijo	Site/Facility ID #	P.O. #
Collected by (signature): <i>[Signature]</i>	Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day	Quote # Date Results Needed
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Dissolved Metals 250mlHDPE-NoPres						Remarks	Sample # (lab only)	
333 S willard st-3	Grab	GW		3/21/24	1408	1	X								- 01
315 S willard st-2		GW		3/22/24	1025	1	X								- 02
333 S willard st-4		GW		3/21/24	1409	1	X								- 03
1924 N willard st-1		GW		3/21/24	1341	1	X								- 04
525 E cherry st-1		GW		3/22/24	0931	1	X								- 05
350 S 12 th -2		GW		3/20/24	1203	1	X								- 06
350 S 12 th -1		GW		3/20/24	1143	1	X								- 07
15 E Aspen st-1		GW		3/21/24	1104	1	X								- 08
609 E cherry st-1		GW		3/22/24	0948	1	X								- 09
193 E state route 89A-1		GW		3/22/24	0903	1	X								- 10

* 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 and As Filtered Sampled	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 type="checkbox"/> Y <input checked="" type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Tracking # 6727 1909 1604		

Relinquished by: (Signature) <i>[Signature]</i>	Date: 3/22/24	Time: 1611	Received by: (Signature) <i>[Signature]</i>	Trip Blank Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> HCL / MeOH TBR
Relinquished by: (Signature) <i>[Signature]</i>	Date: 3/22/24	Time: 1800	Received by: (Signature) <i>[Signature]</i>	Temp: 14.9 °C Bottles Received: 2.0+0=2.0 10
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 3/23/24 Time: 900 Hold: Condition: NCF / OK

PNDPAZ