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Alpha Analytical Laboratories, Inc.

email: [clientservices@alpha-labs.com](mailto:clientservices@alpha-labs.com)

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

25 January 2023

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 4oz WM Poly

Work Order: 22L4011

Enclosed are the results of analyses for samples received by the laboratory on 12/28/22 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chelsea L. Sandelin

Project Manager



Alpha Analytical Laboratories, Inc. email: [clientservices@alpha-labs.com](mailto:clientservices@alpha-labs.com)  
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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 4oz WM Poly  
Project Number: Lot Number P2361CUCS

Reported:  
01/25/23 15:02

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728  
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922  
North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303  
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055  
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | Service Center

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P2361CUCS	22L4011-01	Water	12/28/22 00:00	12/28/22 12:00



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 4oz WM Poly  
 Project Number: Lot Number P2361CUCS

Reported:  
 01/25/23 15:02

### Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>P2361CUCS (22L4011-01) Water Sampled: 12/28/22 00:00 Received: 12/28/22 12:00</b>												
Calcium	ND	0.080	1.0	mg/L	1	AA34032	01/12/23 11:55	01/13/23 14:54	EPA 200.7	BED	1551	U
Magnesium	ND	0.030	1.0	mg/L	1	AA34032	01/12/23 11:55	01/13/23 14:54	EPA 200.7	BED	1551	U
Potassium	ND	0.20	1.0	mg/L	1	AA34032	01/12/23 11:55	01/13/23 14:54	EPA 200.7	BED	1551	U
Sodium	ND	0.30	1.0	mg/L	1	AA34032	01/12/23 11:55	01/13/23 14:54	EPA 200.7	BED	1551	U



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 4oz WM Poly  
 Project Number: Lot Number P2361CUCS

Reported:  
 01/25/23 15:02

**Metals by EPA 200 Series Methods**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
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**P2361CUCS (22L4011-01) Water** Sampled: 12/28/22 00:00 Received: 12/28/22 12:00

Mercury	ND	0.020	0.020	ug/L	1	AL25316	12/29/22 08:18	12/30/22 08:50	EPA 245.1	LMR	1551	U
Tin	ND	0.0060	0.050	mg/L	1	AA34032	01/12/23 11:55	01/13/23 14:54	EPA 200.7	BED	1551	U



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 4oz WM Poly  
 Project Number: Lot Number P2361CUCS

Reported:  
 01/25/23 15:02

**Metals by EPA Method 200.8 ICP/MS**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>P2361CUCS (22L4011-01) Water Sampled: 12/28/22 00:00 Received: 12/28/22 12:00</b>												
Aluminum	ND	5.0	10	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Antimony	ND	0.20	0.50	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Arsenic	ND	0.40	0.50	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
<b>Barium</b>	<b>0.63</b>	<b>0.20</b>	<b>0.50</b>	<b>ug/L</b>	1	AA34038	01/11/23 16:50	01/13/23 21:17	EPA 200.8	MMY	1551	
Beryllium	ND	0.050	0.10	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Boron	ND	20	100	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Cadmium	ND	0.060	0.10	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Chromium	ND	0.50	0.50	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Cobalt	ND	0.040	0.10	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
<b>Copper</b>	<b>1.1</b>	<b>0.40</b>	<b>0.50</b>	<b>ug/L</b>	1	AA34038	01/11/23 16:50	01/13/23 21:17	EPA 200.8	MMY	1551	
Iron	ND	10	50	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Lead	ND	0.060	0.25	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Manganese	ND	2.0	5.0	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Molybdenum	ND	0.070	0.25	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Nickel	ND	0.30	0.50	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Selenium	ND	0.30	2.0	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Silver	ND	0.20	0.20	ug/L	1	AA34269	01/13/23 13:45	01/16/23 18:56	EPA 200.8	MMY	1551	U
Thallium	ND	0.050	0.10	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
Vanadium	ND	0.50	1.0	ug/L	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	U
<b>Zinc</b>	<b>15</b>	<b>2.0</b>	<b>5.0</b>	<b>ug/L</b>	1	AA34038	01/11/23 16:50	01/12/23 21:16	EPA 200.8	MMY	1551	



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 4oz WM Poly  
 Project Number: Lot Number P2361CUCS

Reported:  
 01/25/23 15:02

**Anions by EPA Method 300.0**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>P2361CUCS (22L4011-01) Water Sampled: 12/28/22 00:00 Received: 12/28/22 12:00</b>												
Fluoride	ND	0.020	0.10	mg/L	1	AA35242	01/24/23 11:59	01/24/23 11:59	EPA 300.0	SM	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AA35242	01/24/23 11:59	01/24/23 11:59	EPA 300.0	SM	1551	U, T-08
Nitrite as NO2	ND	0.070	1.0	mg/L	1	AA35242	01/24/23 11:59	01/24/23 11:59	EPA 300.0	SM	1551	U, T-08
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AA35242	01/24/23 11:59	01/24/23 11:59	EPA 300.0	SM	1551	U



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz WM Poly Project Number: Lot Number P2361CUCS	Reported: 01/25/23 15:02
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**Metals (Drinking Water) by EPA 200 Series Methods - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA34032 - Metals Digest**

**Blank (AA34032-BLK1)**

Prepared: 01/12/23 Analyzed: 01/13/23

Calcium	ND	0.080	1.0	mg/L							U
Magnesium	ND	0.030	1.0	mg/L							U
Potassium	ND	0.20	1.0	mg/L							U
Sodium	ND	0.30	1.0	mg/L							U

**LCS (AA34032-BS1)**

Prepared: 01/12/23 Analyzed: 01/13/23

Calcium	2.57	0.080	1.0	mg/L	2.51		102	85-115			
Magnesium	8.22	0.030	1.0	mg/L	8.00		103	85-115			
Potassium	8.18	0.20	1.0	mg/L	8.00		102	85-115			
Sodium	8.21	0.30	1.0	mg/L	8.00		103	85-115			

**Duplicate (AA34032-DUP1)**

Source: 22L4004-01

Prepared: 01/12/23 Analyzed: 01/13/23

Calcium	74.0	0.080	1.0	mg/L		75.0			1.33	20	
Magnesium	61.2	0.030	1.0	mg/L		63.9			4.29	20	
Potassium	1.40	0.20	1.0	mg/L		1.45			3.23	20	
Sodium	36.0	0.30	1.0	mg/L		36.4			1.26	20	

**Matrix Spike (AA34032-MS1)**

Source: 22L4004-01

Prepared: 01/12/23 Analyzed: 01/13/23

Calcium	78.4	0.080	1.0	mg/L	2.51	75.0	136	70-130			QM-4X
Magnesium	72.0	0.030	1.0	mg/L	8.00	63.9	102	70-130			
Potassium	9.77	0.20	1.0	mg/L	8.00	1.45	104	70-130			
Sodium	44.2	0.30	1.0	mg/L	8.00	36.4	96.7	70-130			

**Matrix Spike (AA34032-MS2)**

Source: 22L4012-01

Prepared: 01/12/23 Analyzed: 01/13/23

Calcium	26.9	0.080	1.0	mg/L	2.51	23.6	130	70-130			
Magnesium	14.9	0.030	1.0	mg/L	8.00	6.83	101	70-130			
Potassium	13.4	0.20	1.0	mg/L	8.00	5.44	99.5	70-130			
Sodium	62.0	0.30	1.0	mg/L	8.00	52.9	114	70-130			



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 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 4oz WM Poly  
 Project Number: Lot Number P2361CUCS

Reported:  
 01/25/23 15:02

**Metals (Drinking Water) by EPA 200 Series Methods - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA34032 - Metals Digest**

**Matrix Spike Dup (AA34032-MSD1)**

Source: 22L4004-01

Prepared: 01/12/23 Analyzed: 01/13/23

Calcium	75.7	0.080	1.0	mg/L	2.51	75.0	27.6	70-130	3.53	20	QM-4X
Magnesium	69.7	0.030	1.0	mg/L	8.00	63.9	73.0	70-130	3.23	20	
Potassium	9.84	0.20	1.0	mg/L	8.00	1.45	105	70-130	0.707	20	
Sodium	43.2	0.30	1.0	mg/L	8.00	36.4	84.4	70-130	2.25	20	





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 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 4oz WM Poly  
 Project Number: Lot Number P2361CUCS

Reported:  
 01/25/23 15:02

**Metals by EPA 200 Series Methods - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA34032 - Metals Digest**

<b>Blank (AA34032-BLK1)</b>					Prepared: 01/12/23 Analyzed: 01/13/23						
Tin	ND	0.0060	0.050	mg/L							U
<b>LCS (AA34032-BS1)</b>					Prepared: 01/12/23 Analyzed: 01/13/23						
Tin	0.206	0.0060	0.050	mg/L	0.200		103	85-115			
<b>Duplicate (AA34032-DUP1)</b>					Source: 22L4004-01 Prepared: 01/12/23 Analyzed: 01/13/23						
Tin	ND	0.0060	0.050	mg/L		ND				20	U
<b>Matrix Spike (AA34032-MS1)</b>					Source: 22L4004-01 Prepared: 01/12/23 Analyzed: 01/13/23						
Tin	0.204	0.0060	0.050	mg/L	0.200	ND	102	70-130			
<b>Matrix Spike (AA34032-MS2)</b>					Source: 22L4012-01 Prepared: 01/12/23 Analyzed: 01/13/23						
Tin	0.199	0.0060	0.050	mg/L	0.200	ND	99.7	70-130			
<b>Matrix Spike Dup (AA34032-MSD1)</b>					Source: 22L4004-01 Prepared: 01/12/23 Analyzed: 01/13/23						
Tin	0.200	0.0060	0.050	mg/L	0.200	ND	99.8	70-130	1.98	20	

**Batch AL25316 - Hg Digest**

<b>Blank (AL25316-BLK1)</b>					Prepared: 12/29/22 Analyzed: 12/30/22						
Mercury	ND	0.020	0.020	ug/L							U
<b>LCS (AL25316-BS1)</b>					Prepared: 12/29/22 Analyzed: 12/30/22						
Mercury	0.288	0.020	0.020	ug/L	0.250		115	85-115			
<b>Duplicate (AL25316-DUP1)</b>					Source: 22L4011-01 Prepared: 12/29/22 Analyzed: 12/30/22						
Mercury	ND	0.020	0.020	ug/L		ND				20	U



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 4oz WM Poly  
 Project Number: Lot Number P2361CUCS

Reported:  
 01/25/23 15:02

**Metals by EPA 200 Series Methods - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AL25316 - Hg Digest**

<b>Matrix Spike (AL25316-MS1)</b>		<b>Source: 22L4011-01</b>			Prepared: 12/29/22 Analyzed: 12/30/22					
Mercury	0.296	0.020	0.020	ug/L	0.250	ND	118	70-130		
<b>Matrix Spike (AL25316-MS2)</b>		<b>Source: 22L3534-01</b>			Prepared: 12/29/22 Analyzed: 12/30/22					
Mercury	0.290	0.020	0.020	ug/L	0.250	0.0220	107	70-130		
<b>Matrix Spike Dup (AL25316-MSD1)</b>		<b>Source: 22L4011-01</b>			Prepared: 12/29/22 Analyzed: 12/30/22					
Mercury	0.296	0.020	0.020	ug/L	0.250	ND	118	70-130	0.00	20



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz WM Poly Project Number: Lot Number P2361CUCS	Reported: 01/25/23 15:02
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**Metals by EPA Method 200.8 ICP/MS - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA34038 - EPA 200.8**

**Blank (AA34038-BLK1)**

Prepared: 01/11/23 Analyzed: 01/12/23

Aluminum	ND	5.0	10	ug/L							U
Antimony	ND	0.20	0.50	ug/L							U
Arsenic	ND	0.40	0.50	ug/L							U
Barium	ND	0.20	0.50	ug/L							U
Beryllium	ND	0.050	0.10	ug/L							U
Boron	ND	20	100	ug/L							U
Cadmium	ND	0.060	0.10	ug/L							U
Chromium	ND	0.50	0.50	ug/L							U
Cobalt	ND	0.040	0.10	ug/L							U
Copper	ND	0.40	0.50	ug/L							U
Iron	ND	10	50	ug/L							U
Lead	ND	0.060	0.25	ug/L							U
Manganese	ND	2.0	5.0	ug/L							U
Molybdenum	ND	0.070	0.25	ug/L							U
Nickel	ND	0.30	0.50	ug/L							U
Selenium	ND	0.30	2.0	ug/L							U
Thallium	ND	0.050	0.10	ug/L							U
Vanadium	ND	0.50	1.0	ug/L							U
Zinc	ND	2.0	5.0	ug/L							U

**LCS (AA34038-BS1)**

Prepared: 01/11/23 Analyzed: 01/12/23

Aluminum	515	5.0	10	ug/L	520		99.0	85-115			
Antimony	21.4	0.20	0.50	ug/L	20.0		107	85-115			
Arsenic	21.4	0.40	0.50	ug/L	20.0		107	85-115			
Barium	20.7	0.20	0.50	ug/L	20.0		104	85-115			
Beryllium	21.1	0.050	0.10	ug/L	20.0		105	85-115			
Boron	104	20	100	ug/L	100		104	85-115			
Cadmium	21.6	0.060	0.10	ug/L	20.0		108	85-115			
Chromium	21.2	0.50	0.50	ug/L	20.0		106	85-115			
Cobalt	21.2	0.040	0.10	ug/L	20.0		106	85-115			
Copper	18.3	0.40	0.50	ug/L	20.0		91.7	85-115			
Iron	523	10	50	ug/L	520		101	85-115			
Lead	21.2	0.060	0.25	ug/L	20.0		106	85-115			
Manganese	20.3	2.0	5.0	ug/L	20.0		101	85-115			
Molybdenum	20.9	0.070	0.25	ug/L	20.0		105	85-115			
Nickel	21.3	0.30	0.50	ug/L	20.0		107	85-115			
Selenium	21.4	0.30	2.0	ug/L	20.0		107	85-115			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz WM Poly Project Number: Lot Number P2361CUCS	Reported: 01/25/23 15:02
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**Metals by EPA Method 200.8 ICP/MS - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA34038 - EPA 200.8**

**LCS (AA34038-BS1)**

Prepared: 01/11/23 Analyzed: 01/12/23

Thallium	21.3	0.050	0.10	ug/L	20.0		106	85-115			
Vanadium	21.4	0.50	1.0	ug/L	20.0		107	85-115			
Zinc	102	2.0	5.0	ug/L	100		102	85-115			

**Duplicate (AA34038-DUP1)**

Source: 22L3949-02

Prepared: 01/11/23 Analyzed: 01/12/23

Aluminum	460	20	40	ug/L		404			13.0	20	
Antimony	1.20	0.80	2.0	ug/L		1.18			1.45	20	R-01, J
Arsenic	ND	1.6	2.0	ug/L		ND				20	R-01, U
Barium	19.8	0.80	2.0	ug/L		20.1			1.27	20	
Beryllium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Boron	ND	80	400	ug/L		ND				20	U
Cadmium	ND	0.24	0.40	ug/L		ND				20	R-01, U
Chromium	ND	2.0	2.0	ug/L		ND				20	U, R-01
Cobalt	0.320	0.16	0.40	ug/L		0.323			1.11	20	R-01, J
Copper	10.9	1.6	2.0	ug/L		10.9			0.326	20	
Iron	514	40	200	ug/L		496			3.68	20	
Lead	0.843	0.24	1.0	ug/L		0.829			1.58	20	R-01, J
Manganese	22.5	8.0	20	ug/L		23.0			2.06	20	
Molybdenum	1.27	0.28	1.0	ug/L		1.25			1.72	20	
Nickel	3.05	1.2	2.0	ug/L		3.23			5.70	20	
Selenium	ND	1.2	8.0	ug/L		ND				20	R-01, U
Thallium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Vanadium	5.57	2.0	4.0	ug/L		5.73			2.86	20	
Zinc	86.3	8.0	20	ug/L		87.5			1.37	20	

**Matrix Spike (AA34038-MS1)**

Source: 22L3949-02

Prepared: 01/11/23 Analyzed: 01/12/23

Aluminum	873	20	40	ug/L	520	404	90.3	70-130			
Antimony	21.9	0.80	2.0	ug/L	20.0	1.18	104	70-130			
Arsenic	22.2	1.6	2.0	ug/L	20.0	ND	111	70-130			
Barium	39.5	0.80	2.0	ug/L	20.0	20.1	96.9	70-130			
Beryllium	20.7	0.20	0.40	ug/L	20.0	ND	104	70-130			
Boron	120	80	400	ug/L	100	ND	120	70-130			J
Cadmium	20.5	0.24	0.40	ug/L	20.0	ND	102	70-130			
Chromium	21.8	2.0	2.0	ug/L	20.0	ND	109	70-130			
Cobalt	21.3	0.16	0.40	ug/L	20.0	0.323	105	70-130			
Copper	29.0	1.6	2.0	ug/L	20.0	10.9	90.7	70-130			
Iron	985	40	200	ug/L	520	496	94.0	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz WM Poly Project Number: Lot Number P2361CUCS	Reported: 01/25/23 15:02
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**Metals by EPA Method 200.8 ICP/MS - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA34038 - EPA 200.8**

Matrix Spike (AA34038-MS1)	Source: 22L3949-02			Prepared: 01/11/23 Analyzed: 01/12/23							
Lead	21.7	0.24	1.0	ug/L	20.0	0.829	104	70-130			
Manganese	42.9	8.0	20	ug/L	20.0	23.0	99.2	70-130			
Molybdenum	21.7	0.28	1.0	ug/L	20.0	1.25	102	70-130			
Nickel	24.3	1.2	2.0	ug/L	20.0	3.23	106	70-130			
Selenium	20.6	1.2	8.0	ug/L	20.0	ND	103	70-130			
Thallium	20.8	0.20	0.40	ug/L	20.0	ND	104	70-130			
Vanadium	27.0	2.0	4.0	ug/L	20.0	5.73	106	70-130			
Zinc	182	8.0	20	ug/L	100	87.5	94.9	70-130			

Matrix Spike (AA34038-MS2)	Source: 22L4019-01			Prepared: 01/11/23 Analyzed: 01/12/23							
Aluminum	947	20	40	ug/L	520	392	107	70-130			
Antimony	21.1	0.80	2.0	ug/L	20.0	ND	105	70-130			
Arsenic	22.7	1.6	2.0	ug/L	20.0	ND	114	70-130			
Barium	45.5	0.80	2.0	ug/L	20.0	25.2	101	70-130			
Beryllium	21.1	0.20	0.40	ug/L	20.0	ND	106	70-130			
Boron	143	80	400	ug/L	100	ND	143	70-130			QM-01, J
Cadmium	20.9	0.24	0.40	ug/L	20.0	ND	104	70-130			
Chromium	22.0	2.0	2.0	ug/L	20.0	ND	110	70-130			
Cobalt	21.2	0.16	0.40	ug/L	20.0	ND	106	70-130			
Copper	21.9	1.6	2.0	ug/L	20.0	3.57	91.8	70-130			
Iron	1040	40	200	ug/L	520	527	99.6	70-130			
Lead	22.5	0.24	1.0	ug/L	20.0	1.74	104	70-130			
Manganese	34.5	8.0	20	ug/L	20.0	13.0	107	70-130			
Molybdenum	21.4	0.28	1.0	ug/L	20.0	1.04	102	70-130			
Nickel	23.0	1.2	2.0	ug/L	20.0	1.94	105	70-130			
Selenium	20.7	1.2	8.0	ug/L	20.0	ND	104	70-130			
Thallium	20.8	0.20	0.40	ug/L	20.0	ND	104	70-130			
Vanadium	23.5	2.0	4.0	ug/L	20.0	3.28	101	70-130			
Zinc	113	8.0	20	ug/L	100	13.9	99.2	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz WM Poly Project Number: Lot Number P2361CUCS	Reported: 01/25/23 15:02
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**Metals by EPA Method 200.8 ICP/MS - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA34038 - EPA 200.8**

Matrix Spike Dup (AA34038-MSD1)	Source: 22L3949-02			Prepared: 01/11/23		Analyzed: 01/12/23					
Aluminum	907	20	40	ug/L	520	404	96.7	70-130	3.72	20	
Antimony	21.7	0.80	2.0	ug/L	20.0	1.18	103	70-130	0.958	20	
Arsenic	21.2	1.6	2.0	ug/L	20.0	ND	106	70-130	4.34	20	
Barium	39.7	0.80	2.0	ug/L	20.0	20.1	97.9	70-130	0.538	20	
Beryllium	20.1	0.20	0.40	ug/L	20.0	ND	101	70-130	3.02	20	
Boron	117	80	400	ug/L	100	ND	117	70-130	2.98	20	J
Cadmium	20.5	0.24	0.40	ug/L	20.0	ND	103	70-130	0.413	20	
Chromium	21.5	2.0	2.0	ug/L	20.0	ND	108	70-130	1.44	20	
Cobalt	20.7	0.16	0.40	ug/L	20.0	0.323	102	70-130	2.60	20	
Copper	28.2	1.6	2.0	ug/L	20.0	10.9	86.4	70-130	2.94	20	
Iron	972	40	200	ug/L	520	496	91.6	70-130	1.31	20	
Lead	21.2	0.24	1.0	ug/L	20.0	0.829	102	70-130	1.99	20	
Manganese	42.0	8.0	20	ug/L	20.0	23.0	94.8	70-130	2.07	20	
Molybdenum	21.5	0.28	1.0	ug/L	20.0	1.25	101	70-130	1.26	20	
Nickel	23.6	1.2	2.0	ug/L	20.0	3.23	102	70-130	3.24	20	
Selenium	20.2	1.2	8.0	ug/L	20.0	ND	101	70-130	1.95	20	
Thallium	20.5	0.20	0.40	ug/L	20.0	ND	103	70-130	1.36	20	
Vanadium	25.6	2.0	4.0	ug/L	20.0	5.73	99.5	70-130	5.22	20	
Zinc	183	8.0	20	ug/L	100	87.5	95.1	70-130	0.136	20	

**Batch AA34269 - EPA 200.8**

Blank (AA34269-BLK1)				Prepared: 01/13/23		Analyzed: 01/16/23					
Silver	ND	0.20	0.20	ug/L							U
LCS (AA34269-BS1)				Prepared: 01/13/23		Analyzed: 01/16/23					
Silver	21.1	0.20	0.20	ug/L	20.0		106	85-115			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz WM Poly Project Number: Lot Number P2361CUCS	Reported: 01/25/23 15:02
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**Metals by EPA Method 200.8 ICP/MS - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA34269 - EPA 200.8**

<b>Duplicate (AA34269-DUP1)</b>											
			<b>Source: 23A0228-01</b>			Prepared: 01/13/23 Analyzed: 01/16/23					
Silver	ND	0.20	0.20	ug/L		ND				20	U
<b>Matrix Spike (AA34269-MS1)</b>											
			<b>Source: 23A0228-01</b>			Prepared: 01/13/23 Analyzed: 01/16/23					
Silver	18.8	0.20	0.20	ug/L	20.0	ND	94.2	70-130			
<b>Matrix Spike (AA34269-MS2)</b>											
			<b>Source: 23A0230-01</b>			Prepared: 01/13/23 Analyzed: 01/16/23					
Silver	19.3	0.20	0.20	ug/L	20.0	ND	96.4	70-130			
<b>Matrix Spike Dup (AA34269-MSD1)</b>											
			<b>Source: 23A0228-01</b>			Prepared: 01/13/23 Analyzed: 01/16/23					
Silver	19.3	0.20	0.20	ug/L	20.0	ND	96.3	70-130	2.16	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz WM Poly Project Number: Lot Number P2361CUCS	Reported: 01/25/23 15:02
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**Anions by EPA Method 300.0 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA35242 - EPA 300.0**

<b>Blank (AA35242-BLK1)</b>		Prepared & Analyzed: 01/23/23									
Sulfate as SO4	ND	0.20	0.50	mg/L							U
Nitrate as NO3	ND	0.20	1.0	mg/L							U
Nitrite as NO2	ND	0.070	1.0	mg/L							U
Fluoride	ND	0.020	0.10	mg/L							U

<b>LCS (AA35242-BS1)</b>		Prepared & Analyzed: 01/23/23									
Nitrite as NO2	19.0	0.070	1.0	mg/L	18.2		104	90-110			
Sulfate as SO4	23.3	0.20	0.50	mg/L	22.2		105	90-110			
Nitrate as NO3	26	0.20	1.0	mg/L	24.7		105	90-110			
Fluoride	6.09	0.020	0.10	mg/L	5.56		110	90-110			

<b>Duplicate (AA35242-DUP1)</b>		<b>Source: 23A3132-03</b>		Prepared & Analyzed: 01/23/23							
Sulfate as SO4	2.96	0.20	0.50	mg/L		2.96			0.0675	20	
Fluoride	0.0970	0.020	0.10	mg/L		0.0980			1.03	20	J
Nitrite as NO2	0.0888	0.070	1.0	mg/L		0.0921			3.64	20	J
Nitrate as NO3	1.1	0.20	1.0	mg/L		1.1			0.977	20	

<b>Matrix Spike (AA35242-MS1)</b>		<b>Source: 23A3132-03</b>		Prepared & Analyzed: 01/23/23							
Fluoride	5.40	0.20	1.0	mg/L	5.56	ND	97.2	80-120			
Nitrate as NO3	25	2.0	10	mg/L	24.7	ND	101	80-120			
Nitrite as NO2	17.1	0.70	10	mg/L	18.2	ND	93.9	80-120			
Sulfate as SO4	23.7	2.0	5.0	mg/L	22.2	2.96	93.4	80-120			

<b>Matrix Spike (AA35242-MS2)</b>		<b>Source: 22L4011-01</b>		Prepared & Analyzed: 01/24/23							
Nitrite as NO2	16.7	0.70	10	mg/L	18.2	ND	91.9	80-120			
Nitrate as NO3	23	2.0	10	mg/L	24.7	ND	94.7	80-120			
Fluoride	5.33	0.20	1.0	mg/L	5.56	ND	96.0	80-120			
Sulfate as SO4	20.4	2.0	5.0	mg/L	22.2	ND	91.7	80-120			

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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 4oz WM Poly  
 Project Number: Lot Number P2361CUCS

Reported:  
 01/25/23 15:02

**Anions by EPA Method 300.0 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA35242 - EPA 300.0**

Matrix Spike Dup (AA35242-MSD1)	Source: 23A3132-03			Prepared & Analyzed: 01/23/23							
Nitrate as NO3	25	2.0	10	mg/L	24.7	ND	101	80-120	0.0448	20	
Nitrite as NO2	17.1	0.70	10	mg/L	18.2	ND	93.9	80-120	0.00	20	
Fluoride	5.37	0.20	1.0	mg/L	5.56	ND	96.6	80-120	0.619	20	
Sulfate as SO4	23.7	2.0	5.0	mg/L	22.2	2.96	93.1	80-120	0.235	20	

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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 4oz WM Poly  
Project Number: Lot Number P2361CUCS

Reported:  
01/25/23 15:02

### Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- T-08 Hold time for PT samples not applicable.
- U Analyte included in analysis, but not detected at or above MDL.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- MDL Method detection limit
- Rec Recovery
- RPD Relative Percent Difference

Non-accredited analytes are reported only when ELAP accreditation for a requested analyte method pair is not available. For a list of accredited analytes, view our certificates at the Company link on our website at [www.alpha-labs.com](http://www.alpha-labs.com) or contact your Project Manager directly.

