



*Alpha*

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

30 August 2021

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 8oz WM Poly

Work Order: 21H1543

Enclosed are the results of analyses for samples received by the laboratory on 08/10/21 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For 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- 8oz WM Poly  
Project Number: Lot Number I1219CUCS

Reported:  
08/30/21 08:13

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | T: 925-828-6226 | F: 925-828-6309 | ELAP# 2728  
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | T: 916-686-5190 | F: 916-686-5192 | ELAP# 2922  
North Bay: 110 Liberty Street | Petaluma, CA 94952 | T: 707-769-3128 | F: 707-769-8093 | ELAP# 2303  
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510 | ELAP# 3055

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I1219CUCS	21H1543-01	Water	08/10/21 00:00	08/10/21 08:30



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I1219CUCS

Reported:  
 08/30/21 08:13

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>I1219CUCS (21H1543-01) Water Sampled: 08/10/21 00:00 Received: 08/10/21 08:30</b>												
Calcium	ND	0.080	1.0	mg/L	1	AH14202	08/24/21 15:00	08/26/21 17:24	EPA 200.7	SLG	1551	U
Magnesium	ND	0.030	1.0	mg/L	1	AH14202	08/24/21 15:00	08/26/21 17:24	EPA 200.7	SLG	1551	U
Potassium	ND	0.090	1.0	mg/L	1	AH14202	08/24/21 15:00	08/26/21 17:24	EPA 200.7	SLG	1551	U
Sodium	ND	0.40	1.0	mg/L	1	AH14202	08/24/21 15:00	08/26/21 17:24	EPA 200.7	SLG	1551	U



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 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I1219CUCS

Reported:  
 08/30/21 08:13

**Metals by EPA 200 Series Methods**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>I1219CUCS (21H1543-01) Water    Sampled: 08/10/21 00:00    Received: 08/10/21 08:30</b>												
Mercury	ND	0.020	0.020	ug/L	1	AH14187	08/19/21 06:29	08/20/21 10:26	EPA 245.1	LMR	1551	U
Tin	ND	0.0060	0.050	mg/L	1	AH14202	08/24/21 15:00	08/26/21 17:24	EPA 200.7	SLG	1551	U



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I1219CUCS

Reported:  
 08/30/21 08:13

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>I1219CUCS (21H1543-01) Water    Sampled: 08/10/21 00:00    Received: 08/10/21 08:30</b>												
Aluminum	ND	5.0	10	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Antimony	ND	0.20	0.50	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Arsenic	ND	0.40	0.50	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Barium	ND	0.20	0.50	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Beryllium	ND	0.050	0.10	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Boron	ND	8.0	50	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Cadmium	ND	0.060	0.10	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Chromium	ND	0.50	0.50	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Cobalt	ND	0.040	0.10	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Copper	ND	0.40	0.50	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Iron	ND	10	50	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Lead	ND	0.060	0.25	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Manganese	ND	2.0	5.0	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Molybdenum	ND	0.070	0.25	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Nickel	ND	0.30	0.50	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Selenium	ND	0.30	2.0	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Silver	ND	0.050	0.10	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Thallium	ND	0.050	0.10	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Vanadium	ND	0.50	1.0	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U
Zinc	ND	1.0	5.0	ug/L	1	AH14106	08/20/21 16:45	08/23/21 11:56	EPA 200.8	MMY	1551	U



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz WM Poly Project Number: Lot Number I1219CUCS	Reported: 08/30/21 08:13
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**Anions by EPA Method 300.0**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
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**I1219CUCS (21H1543-01) Water**    **Sampled: 08/10/21 00:00**    **Received: 08/10/21 08:30**

Fluoride	ND	0.020	0.10	mg/L	1	AH14052	08/18/21 12:34	08/18/21 12:34	EPA 300.0	SM	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AH14052	08/18/21 12:34	08/18/21 12:34	EPA 300.0	SM	1551	T-15, U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AH14052	08/18/21 12:34	08/18/21 12:34	EPA 300.0	SM	1551	T-15, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AH14052	08/18/21 12:34	08/18/21 12:34	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- 8oz WM Poly Project Number: Lot Number I1219CUCS	Reported: 08/30/21 08:13
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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 AH14202 - Metals Digest**

<b>Blank (AH14202-BLK1)</b>											Prepared: 08/24/21 Analyzed: 08/25/21	
Calcium	0.125	0.080	1.0	mg/L							J	
Magnesium	ND	0.030	1.0	mg/L							U	
Potassium	ND	0.090	1.0	mg/L							U	
Sodium	ND	0.40	1.0	mg/L							U	

<b>LCS (AH14202-BS1)</b>											Prepared: 08/24/21 Analyzed: 08/25/21	
Calcium	8.24	0.080	1.0	mg/L	8.00		103	85-115				
Magnesium	8.52	0.030	1.0	mg/L	8.00		107	85-115				
Potassium	7.49	0.090	1.0	mg/L	8.00		93.6	85-115				
Sodium	7.92	0.40	1.0	mg/L	8.00		99.0	85-115				

<b>Duplicate (AH14202-DUP1)</b>											Source: 21H1540-02		Prepared: 08/24/21 Analyzed: 08/25/21	
Calcium	27.5	0.080	1.0	mg/L		27.6			0.245	20				
Magnesium	21.9	0.030	1.0	mg/L		22.3			1.64	20				
Potassium	1.94	0.090	1.0	mg/L		1.91			1.89	20				
Sodium	39.4	0.40	1.0	mg/L		38.2			3.18	20				

<b>Matrix Spike (AH14202-MS1)</b>											Source: 21H1540-02		Prepared: 08/24/21 Analyzed: 08/25/21	
Calcium	36.4	0.080	1.0	mg/L	8.00	27.6	109	70-130						
Magnesium	31.3	0.030	1.0	mg/L	8.00	22.3	113	70-130						
Potassium	9.48	0.090	1.0	mg/L	8.00	1.91	94.7	70-130						
Sodium	49.1	0.40	1.0	mg/L	8.00	38.2	137	70-130			QM-4X			

<b>Matrix Spike (AH14202-MS2)</b>											Source: 21H1702-02		Prepared: 08/24/21 Analyzed: 08/25/21	
Calcium	90.4	0.080	1.0	mg/L	8.00	85.3	63.2	70-130			QM-4X			
Magnesium	30.3	0.030	1.0	mg/L	8.00	22.5	97.9	70-130						
Potassium	16.1	0.090	1.0	mg/L	8.00	5.83	129	70-130						
Sodium	82.9	0.40	1.0	mg/L	8.00	76.2	83.6	70-130						

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 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I1219CUCS

Reported:  
 08/30/21 08:13

**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 AH14202 - Metals Digest**

**Matrix Spike Dup (AH14202-MSD1)**

Source: 21H1540-02

Prepared: 08/24/21 Analyzed: 08/25/21

Calcium	35.9	0.080	1.0	mg/L	8.00	27.6	104	70-130	1.16	20	
Magnesium	31.0	0.030	1.0	mg/L	8.00	22.3	109	70-130	0.912	20	
Potassium	9.40	0.090	1.0	mg/L	8.00	1.91	93.7	70-130	0.857	20	
Sodium	48.8	0.40	1.0	mg/L	8.00	38.2	133	70-130	0.569	20	QM-4X





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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz WM Poly Project Number: Lot Number I1219CUCS	Reported: 08/30/21 08:13
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**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 AH14187 - EPA 245.1 Hg Water**

<b>Blank (AH14187-BLK1)</b>			Prepared: 08/19/21 Analyzed: 08/20/21								
Mercury	ND	0.020	0.020	ug/L							U
<b>LCS (AH14187-BS1)</b>			Prepared: 08/19/21 Analyzed: 08/20/21								
Mercury	0.281	0.020	0.020	ug/L	0.250		112	85-115			
<b>Duplicate (AH14187-DUP1)</b>			<b>Source: 21H1543-01</b>			Prepared: 08/19/21 Analyzed: 08/20/21					
Mercury	ND	0.020	0.020	ug/L		ND				20	U
<b>Matrix Spike (AH14187-MS2)</b>			<b>Source: 21H1904-01</b>			Prepared: 08/19/21 Analyzed: 08/20/21					
Mercury	0.275	0.020	0.020	ug/L	0.250	ND	110	70-130			
<b>Matrix Spike Dup (AH14187-MSD1)</b>			<b>Source: 21H1543-01</b>			Prepared: 08/19/21 Analyzed: 08/20/21					
Mercury	0.244	0.020	0.020	ug/L	0.250	ND	97.6	70-130	15.2	20	

**Batch AH14202 - Metals Digest**

<b>Blank (AH14202-BLK1)</b>			Prepared: 08/24/21 Analyzed: 08/25/21								
Tin	ND	0.0060	0.050	mg/L							U
<b>LCS (AH14202-BS1)</b>			Prepared: 08/24/21 Analyzed: 08/25/21								
Tin	0.179	0.0060	0.050	mg/L	0.200		89.5	85-115			
<b>Duplicate (AH14202-DUP1)</b>			<b>Source: 21H1540-02</b>			Prepared: 08/24/21 Analyzed: 08/25/21					
Tin	ND	0.0060	0.050	mg/L		ND				20	U
<b>Matrix Spike (AH14202-MS1)</b>			<b>Source: 21H1540-02</b>			Prepared: 08/24/21 Analyzed: 08/25/21					
Tin	0.184	0.0060	0.050	mg/L	0.200	ND	91.9	70-130			



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 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I1219CUCS

Reported:  
 08/30/21 08:13

**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 AH14202 - Metals Digest**

**Matrix Spike (AH14202-MS2)**

Source: 21H1702-02

Prepared: 08/24/21 Analyzed: 08/25/21

Tin	0.176	0.0060	0.050	mg/L	0.200	ND	88.0	70-130			
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**Matrix Spike Dup (AH14202-MSD1)**

Source: 21H1540-02

Prepared: 08/24/21 Analyzed: 08/25/21

Tin	0.181	0.0060	0.050	mg/L	0.200	ND	90.4	70-130	1.69	20	
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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz WM Poly Project Number: Lot Number I1219CUCS	Reported: 08/30/21 08:13
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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 AH14106 - EPA 200.8**

**Blank (AH14106-BLK1)**

Prepared: 08/20/21 Analyzed: 08/23/21

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	8.0	50	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
Silver	ND	0.050	0.10	ug/L							U
Thallium	ND	0.050	0.10	ug/L							U
Vanadium	0.594	0.50	1.0	ug/L							J
Zinc	ND	1.0	5.0	ug/L							U

**LCS (AH14106-BS1)**

Prepared: 08/20/21 Analyzed: 08/23/21

Aluminum	562	5.0	10	ug/L	520	108	85-115
Antimony	21.9	0.20	0.50	ug/L	20.0	110	85-115
Arsenic	22.3	0.40	0.50	ug/L	20.0	111	85-115
Barium	22.2	0.20	0.50	ug/L	20.0	111	85-115
Beryllium	21.7	0.050	0.10	ug/L	20.0	108	85-115
Boron	109	8.0	50	ug/L	100	109	85-115
Cadmium	21.9	0.060	0.10	ug/L	20.0	110	85-115
Chromium	22.2	0.50	0.50	ug/L	20.0	111	85-115
Cobalt	22.2	0.040	0.10	ug/L	20.0	111	85-115
Copper	21.7	0.40	0.50	ug/L	20.0	109	85-115
Iron	584	10	50	ug/L	520	112	85-115
Lead	21.3	0.060	0.25	ug/L	20.0	107	85-115
Manganese	22.8	2.0	5.0	ug/L	20.0	114	85-115
Molybdenum	22.3	0.070	0.25	ug/L	20.0	111	85-115
Nickel	22.1	0.30	0.50	ug/L	20.0	110	85-115

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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 AH14106 - EPA 200.8**

**LCS (AH14106-BS1)**

Prepared: 08/20/21 Analyzed: 08/23/21

Selenium	22.5	0.30	2.0	ug/L	20.0		113	85-115			
Silver	21.4	0.050	0.10	ug/L	20.0		107	85-115			
Thallium	21.2	0.050	0.10	ug/L	20.0		106	85-115			
Vanadium	22.6	0.50	1.0	ug/L	20.0		113	85-115			
Zinc	109	1.0	5.0	ug/L	100		109	85-115			

**Duplicate (AH14106-DUP1)**

Source: 21H1342-07

Prepared: 08/20/21 Analyzed: 08/23/21

Aluminum	565	20	40	ug/L		680			18.4	20	
Antimony	ND	0.80	2.0	ug/L		ND				20	R-01, U
Arsenic	ND	1.6	2.0	ug/L		ND				20	R-01, U
Barium	52.7	0.80	2.0	ug/L		57.8			9.25	20	
Beryllium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Boron	405	32	200	ug/L		441			8.37	20	
Cadmium	ND	0.24	0.40	ug/L		ND				20	R-01, U
Chromium	ND	2.0	2.0	ug/L		ND				20	R-01, U
Cobalt	0.324	0.16	0.40	ug/L		0.311			4.09	20	R-01, J
Copper	18.2	1.6	2.0	ug/L		19.6			7.22	20	
Iron	1150	40	200	ug/L		1330			14.4	20	
Lead	0.865	0.24	1.0	ug/L		0.780			10.3	20	R-01, J
Manganese	24.2	8.0	20	ug/L		26.4			8.83	20	
Molybdenum	0.611	0.28	1.0	ug/L		0.579			5.29	20	R-01, J
Nickel	1.29	1.2	2.0	ug/L		1.48			13.9	20	R-01, J
Selenium	ND	1.2	8.0	ug/L		ND				20	R-01, U
Silver	0.471	0.20	0.40	ug/L		ND			200	20	
Thallium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Vanadium	3.95	2.0	4.0	ug/L		2.78			34.6	20	J
Zinc	17.6	4.0	20	ug/L		18.1			2.71	20	J



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 8oz WM Poly  
 Project Number: Lot Number I1219CUCS

Reported:  
 08/30/21 08:13

**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 AH14106 - EPA 200.8**

**MRL Check (AH14106-MRL1)**

Prepared: 08/20/21 Analyzed: 08/23/21

Aluminum	10.0	5.0	10	ug/L	8.00		125	0-200			
Antimony	0.450	0.20	0.50	ug/L	0.400		112	0-200			J
Arsenic	ND	0.40	0.50	ug/L	0.400			0-200			U
Barium	0.446	0.20	0.50	ug/L	0.400		111	0-200			J
Beryllium	0.0794	0.050	0.10	ug/L	0.0800		99.2	0-200			J
Cadmium	0.0852	0.060	0.10	ug/L	0.0800		106	0-200			J
Chromium	ND	0.50	0.50	ug/L	0.400			0-200			U
Cobalt	0.0868	0.040	0.10	ug/L	0.0800		109	0-200			J
Copper	0.504	0.40	0.50	ug/L	0.400		126	0-200			
Iron	45.4	10	50	ug/L	40.0		113	0-200			J
Manganese	4.63	2.0	5.0	ug/L	4.00		116	0-200			J
Thallium	0.0885	0.050	0.10	ug/L	0.0800		111	0-200			J

**Matrix Spike (AH14106-MS1)**

Source: 21H1342-07

Prepared: 08/20/21 Analyzed: 08/23/21

Aluminum	1370	20	40	ug/L	520	680	133	70-130			
Antimony	23.0	0.80	2.0	ug/L	20.0	ND	115	70-130			
Arsenic	24.6	1.6	2.0	ug/L	20.0	ND	123	70-130			
Barium	80.1	0.80	2.0	ug/L	20.0	57.8	111	70-130			
Beryllium	24.2	0.20	0.40	ug/L	20.0	ND	121	70-130			
Boron	577	32	200	ug/L	100	441	136	70-130			QM-01
Cadmium	23.5	0.24	0.40	ug/L	20.0	ND	118	70-130			
Chromium	25.1	2.0	2.0	ug/L	20.0	ND	126	70-130			
Cobalt	24.0	0.16	0.40	ug/L	20.0	0.311	118	70-130			
Copper	44.5	1.6	2.0	ug/L	20.0	19.6	125	70-130			
Iron	1890	40	200	ug/L	520	1330	108	70-130			
Lead	22.8	0.24	1.0	ug/L	20.0	0.780	110	70-130			
Manganese	50.4	8.0	20	ug/L	20.0	26.4	120	70-130			
Molybdenum	24.0	0.28	1.0	ug/L	20.0	0.579	117	70-130			
Nickel	24.8	1.2	2.0	ug/L	20.0	1.48	116	70-130			
Selenium	24.2	1.2	8.0	ug/L	20.0	ND	121	70-130			
Silver	22.4	0.20	0.40	ug/L	20.0	ND	112	70-130			
Thallium	21.9	0.20	0.40	ug/L	20.0	ND	110	70-130			
Vanadium	25.4	2.0	4.0	ug/L	20.0	2.78	113	70-130			
Zinc	135	4.0	20	ug/L	100	18.1	117	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz WM Poly Project Number: Lot Number I1219CUCS	Reported: 08/30/21 08:13
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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 AH14106 - EPA 200.8**

Matrix Spike (AH14106-MS2)	Source: 21H1342-09			Prepared: 08/20/21		Analyzed: 08/23/21					
Aluminum	968	20	40	ug/L	520	317	125	70-130			
Antimony	22.8	0.80	2.0	ug/L	20.0	ND	114	70-130			
Arsenic	24.9	1.6	2.0	ug/L	20.0	ND	124	70-130			
Barium	79.8	0.80	2.0	ug/L	20.0	55.0	124	70-130			
Beryllium	22.7	0.20	0.40	ug/L	20.0	ND	114	70-130			
Boron	434	32	200	ug/L	100	310	123	70-130			
Cadmium	22.8	0.24	0.40	ug/L	20.0	ND	114	70-130			
Chromium	24.4	2.0	2.0	ug/L	20.0	ND	122	70-130			
Cobalt	23.9	0.16	0.40	ug/L	20.0	0.208	118	70-130			
Copper	51.2	1.6	2.0	ug/L	20.0	26.3	124	70-130			
Iron	1630	40	200	ug/L	520	1040	115	70-130			
Lead	27.0	0.24	1.0	ug/L	20.0	4.81	111	70-130			
Molybdenum	23.6	0.28	1.0	ug/L	20.0	0.425	116	70-130			
Nickel	24.4	1.2	2.0	ug/L	20.0	1.32	116	70-130			
Selenium	23.2	1.2	8.0	ug/L	20.0	ND	116	70-130			
Silver	22.1	0.20	0.40	ug/L	20.0	ND	110	70-130			
Thallium	21.9	0.20	0.40	ug/L	20.0	ND	109	70-130			
Vanadium	25.1	2.0	4.0	ug/L	20.0	2.60	113	70-130			
Zinc	154	4.0	20	ug/L	100	45.3	109	70-130			

Matrix Spike Dup (AH14106-MSD1)	Source: 21H1342-07			Prepared: 08/20/21		Analyzed: 08/23/21					
Aluminum	1400	20	40	ug/L	520	680	139	70-130	2.33	20	
Antimony	23.5	0.80	2.0	ug/L	20.0	ND	118	70-130	2.12	20	
Arsenic	23.9	1.6	2.0	ug/L	20.0	ND	120	70-130	2.93	20	
Barium	81.1	0.80	2.0	ug/L	20.0	57.8	116	70-130	1.28	20	
Beryllium	24.0	0.20	0.40	ug/L	20.0	ND	120	70-130	0.610	20	
Boron	586	32	200	ug/L	100	441	145	70-130	1.53	20	QM-01
Cadmium	23.8	0.24	0.40	ug/L	20.0	ND	119	70-130	1.14	20	
Chromium	25.3	2.0	2.0	ug/L	20.0	ND	127	70-130	0.715	20	
Cobalt	24.4	0.16	0.40	ug/L	20.0	0.311	121	70-130	1.71	20	
Copper	45.1	1.6	2.0	ug/L	20.0	19.6	128	70-130	1.31	20	
Iron	2010	40	200	ug/L	520	1330	131	70-130	6.19	20	QM-01
Lead	23.3	0.24	1.0	ug/L	20.0	0.780	112	70-130	2.02	20	
Manganese	50.5	8.0	20	ug/L	20.0	26.4	120	70-130	0.180	20	
Molybdenum	24.2	0.28	1.0	ug/L	20.0	0.579	118	70-130	0.977	20	
Nickel	25.4	1.2	2.0	ug/L	20.0	1.48	120	70-130	2.53	20	
Selenium	23.9	1.2	8.0	ug/L	20.0	ND	120	70-130	1.41	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz WM Poly Project Number: Lot Number I1219CUCS	Reported: 08/30/21 08:13
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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 AH14106 - EPA 200.8**

Matrix Spike Dup (AH14106-MSD1)	Source: 21H1342-07			Prepared: 08/20/21		Analyzed: 08/23/21					
Silver	23.1	0.20	0.40	ug/L	20.0	ND	115	70-130	2.91	20	
Thallium	22.4	0.20	0.40	ug/L	20.0	ND	112	70-130	2.25	20	
Vanadium	26.0	2.0	4.0	ug/L	20.0	2.78	116	70-130	2.54	20	
Zinc	137	4.0	20	ug/L	100	18.1	119	70-130	0.916	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz WM Poly Project Number: Lot Number I1219CUCS	Reported: 08/30/21 08:13
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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 AH14052 - EPA 300.0**

<b>Blank (AH14052-BLK1)</b>											Prepared & Analyzed: 08/17/21	
Nitrate as NO3	ND	0.20	1.0	mg/L							U	
Sulfate as SO4	ND	0.20	0.50	mg/L							U	
Nitrite as NO2	ND	0.20	1.0	mg/L							U	
Fluoride	ND	0.020	0.10	mg/L							U	

<b>LCS (AH14052-BS1)</b>											Prepared & Analyzed: 08/17/21	
Fluoride	5.40	0.020	0.10	mg/L	5.56		97.2	90-110				
Nitrite as NO2	18.4	0.20	1.0	mg/L	18.2		101	90-110				
Nitrate as NO3	23	0.20	1.0	mg/L	24.7		93.4	90-110				
Sulfate as SO4	21.5	0.20	0.50	mg/L	22.2		96.8	90-110				

<b>Duplicate (AH14052-DUP1)</b>											Source: 21H2156-01		Prepared & Analyzed: 08/17/21	
Fluoride	0.117	0.020	0.10	mg/L		0.117			0.00	20				
Sulfate as SO4	9.59	0.20	0.50	mg/L		9.61			0.281	20				
Nitrate as NO3	1.4	0.20	1.0	mg/L		1.4			0.212	20				
Nitrite as NO2	ND	0.20	1.0	mg/L		ND				20	U			

<b>Matrix Spike (AH14052-MS1)</b>											Source: 21H2156-01		Prepared & Analyzed: 08/17/21	
Nitrate as NO3	25	2.0	10	mg/L	24.7	ND	102	80-120						
Nitrite as NO2	16.9	2.0	10	mg/L	18.2	ND	92.5	80-120						
Fluoride	4.92	0.20	1.0	mg/L	5.56	ND	88.6	80-120						
Sulfate as SO4	28.5	2.0	5.0	mg/L	22.2	9.61	84.9	80-120						

<b>Matrix Spike (AH14052-MS2)</b>											Source: 21H2262-09		Prepared & Analyzed: 08/17/21	
Nitrate as NO3	24	2.0	10	mg/L	24.7	ND	96.5	80-120						
Nitrite as NO2	16.6	2.0	10	mg/L	18.2	ND	90.9	80-120						
Fluoride	4.87	0.20	1.0	mg/L	5.56	ND	87.6	80-120						
Sulfate as SO4	29.6	2.0	5.0	mg/L	22.2	11.2	83.0	80-120						

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 8oz WM Poly Project Number: Lot Number I1219CUCS	Reported: 08/30/21 08:13
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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 AH14052 - EPA 300.0**

Matrix Spike Dup (AH14052-MSD1)	Source: 21H2156-01				Prepared & Analyzed: 08/17/21						
Nitrate as NO3	25	2.0	10	mg/L	24.7	ND	101	80-120	1.47	20	
Nitrite as NO2	16.5	2.0	10	mg/L	18.2	ND	90.5	80-120	2.19	20	
Fluoride	4.82	0.20	1.0	mg/L	5.56	ND	86.8	80-120	2.05	20	
Sulfate as SO4	28.0	2.0	5.0	mg/L	22.2	9.61	82.9	80-120	1.53	20	

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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 8oz WM Poly  
Project Number: Lot Number I1219CUCS

Reported:  
08/30/21 08:13

### Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- P-02 Sample acidified to pH <2 and allowed to sit 24 hours before further processing.
- 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-15 Bottled water sample prepared immediately after opening.
- 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



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Service Center & Micro Lab: 6398 Dougherty Rd, Ste 35, Dublin, CA 94568  
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# Chain of Custody Record

Reports and Invoices will be delivered by email in .pdf format.

Lab No. 21H1543 Page      of     

Signature below authorizes work under terms stated on reverse side.

Report to: Company: Sample Traps LLC Attn: Quality Control Manager Address: Phone/Fax: Email Address: admin@sampletraps.com		Invoice to (if different): Company: Attn: Address: Phone/Fax: Email Address:		Project Info for Report: Project ID: QC- 8oz WM poly Project No: Lot Number I1219CUCS PO/Reference :		Signature below authorizes work under terms stated on reverse side.  <b>Analyses Requested</b>  Sample Traps Inorganics include MDL j-flags										<b>TAT</b>  10 days <input checked="" type="radio"/> <b>RUSH:</b> 5 days <input type="radio"/> 48 hours <input type="radio"/> Other: <input type="radio"/> ___ days <input type="radio"/>	<b>Lab Approval Required For Rush TATs</b>	<b>Sample Notes</b> (lab use only) Temperature: _____ deg. C Shipment Method: _____ Custody Seals: Y / N
Samplers Signature: N/A		Container: 40ml VOA Poly Glass bottle Glass Jar		Preservative: HCL Methanol Na Bisulfate Other None Water														
Print: <b>Sample Identification</b> I1219CUCS		Sampled: Date Time x x																
Relinquished by: Per BAL		Received by: <i>[Signature]</i>		Date: 8-18-21		Time: 0830		CDPH Write On EDT Transmission? <input type="radio"/> Yes <input type="radio"/> No State System Number: _____ If "Y" please enter the Source Number(s) in the column above CA Geotracker EDF Report? <input type="radio"/> Yes <input type="radio"/> No Global ID: _____ Sampling Company Log Code: _____ EDF to (Email Address): _____ Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____										