



*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

23 March 2020

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 8oz WM Poly

Work Order: 20C0918

Enclosed are the results of analyses for samples received by the laboratory on 03/06/20 12:00. 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 I0051CUCS

Reported:  
03/23/20 09:17

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 Service Center: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I0051CUCS	20C0918-01	Water	03/06/20 00:00	03/06/20 12:00



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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 I0051CUCS

Reported:  
 03/23/20 09:17

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>I0051CUCS (20C0918-01) Water    Sampled: 03/06/20 00:00    Received: 03/06/20 12:00</b>												
Calcium	ND	0.080	1.0	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:01	EPA 200.7	MAM	1551	U
Magnesium	ND	0.030	1.0	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:01	EPA 200.7	MAM	1551	U
Potassium	ND	0.090	1.0	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:01	EPA 200.7	MAM	1551	U
Sodium	ND	0.40	1.0	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:01	EPA 200.7	MAM	1551	U



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Sample Traps, LLC  
262 Rickenbacker Circle  
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Project Manager: Quality Control Manager  
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Reported:  
03/23/20 09:17

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>I0051CUCS (20C0918-01) Water    Sampled: 03/06/20 00:00    Received: 03/06/20 12:00</b>												
Mercury	ND	0.020	0.020	ug/L	1	AC03941	03/16/20 06:31	03/16/20 13:51	EPA 245.1	LMR	1551	U
Tin	ND	0.050	0.050	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:01	EPA 200.7	MAM	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 I0051CUCS

Reported:  
 03/23/20 09:17

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>I0051CUCS (20C0918-01) Water    Sampled: 03/06/20 00:00    Received: 03/06/20 12:00</b>												
Aluminum	ND	5.0	10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Antimony	ND	0.20	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Arsenic	ND	0.40	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Barium	ND	0.20	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Beryllium	ND	0.050	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Boron	ND	20	50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Cadmium	ND	0.060	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Chromium	ND	0.50	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Cobalt	ND	0.10	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Copper	ND	0.40	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Iron	ND	10	50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Lead	ND	0.060	0.25	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Manganese	ND	2.0	5.0	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Molybdenum	ND	0.070	0.25	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Nickel	ND	0.30	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Selenium	ND	0.30	2.0	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Silver	ND	0.050	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Thallium	ND	0.050	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Vanadium	ND	0.50	1.0	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	1551	U
Zinc	ND	4.0	5.0	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:37	EPA 200.8	MB	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 I0051CUCS

Reported:  
 03/23/20 09:17

**Anions by EPA Method 300.0**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>I0051CUCS (20C0918-01) Water    Sampled: 03/06/20 00:00    Received: 03/06/20 12:00</b>												
Fluoride	ND	0.020	0.10	mg/L	1	AC03874	03/13/20 13:55	03/13/20 13:55	EPA 300.0	SMS	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AC03874	03/13/20 13:55	03/13/20 13:55	EPA 300.0	SMS	1551	T-02, U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AC03874	03/13/20 13:55	03/13/20 13:55	EPA 300.0	SMS	1551	T-02, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AC03874	03/13/20 13:55	03/13/20 13:55	EPA 300.0	SMS	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 I0051CUCS	Reported: 03/23/20 09:17
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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 AC03981 - Metals Digest**

<b>Blank (AC03981-BLK1)</b>											
						Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	ND	0.080	1.0	mg/L							U
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 (AC03981-BS1)</b>											
						Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	7.98	0.080	1.0	mg/L	8.00		99.8	85-115			
Magnesium	8.12	0.030	1.0	mg/L	8.00		101	85-115			
Potassium	7.13	0.090	1.0	mg/L	7.80		91.5	85-115			
Sodium	8.44	0.40	1.0	mg/L	8.00		105	85-115			

<b>Duplicate (AC03981-DUP1)</b>											
			<b>Source: 20C1308-01</b>			Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	21.1	0.080	1.0	mg/L		20.0			5.69	20	
Magnesium	12.4	0.030	1.0	mg/L		12.2			1.96	20	
Potassium	19.6	0.090	1.0	mg/L		19.6			0.0895	20	
Sodium	97.9	0.40	1.0	mg/L		93.7			4.36	20	

<b>Matrix Spike (AC03981-MS1)</b>											
			<b>Source: 20C1308-01</b>			Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	29.5	0.080	1.0	mg/L	8.00	20.0	119	70-130			
Magnesium	20.7	0.030	1.0	mg/L	8.00	12.2	106	70-130			
Potassium	27.8	0.090	1.0	mg/L	7.80	19.6	106	70-130			
Sodium	103	0.40	1.0	mg/L	8.00	93.7	121	70-130			

<b>Matrix Spike (AC03981-MS2)</b>											
			<b>Source: 20C1289-06</b>			Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	72.9	0.080	1.0	mg/L	8.00	63.7	114	70-130			
Magnesium	62.3	0.030	1.0	mg/L	8.00	54.2	101	70-130			
Potassium	8.45	0.090	1.0	mg/L	7.80	1.10	94.3	70-130			
Sodium	40.0	0.40	1.0	mg/L	8.00	32.7	91.8	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 I0051CUCS

Reported:  
 03/23/20 09:17

**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 AC03981 - Metals Digest**

**Matrix Spike Dup (AC03981-MSD1)**

Source: 20C1308-01

Prepared: 03/16/20 Analyzed: 03/19/20

Calcium	29.0	0.080	1.0	mg/L	8.00	20.0	113	70-130	1.59	20	
Magnesium	20.6	0.030	1.0	mg/L	8.00	12.2	105	70-130	0.418	20	
Potassium	27.5	0.090	1.0	mg/L	7.80	19.6	101	70-130	1.17	20	
Sodium	102	0.40	1.0	mg/L	8.00	93.7	101	70-130	1.61	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 I0051CUCS	Reported: 03/23/20 09:17
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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 AC03941 - EPA 245.1 Hg Water**

<b>Blank (AC03941-BLK1)</b>			Prepared & Analyzed: 03/16/20								
Mercury	ND	0.020	0.020	ug/L							U
<b>LCS (AC03941-BS1)</b>			Prepared & Analyzed: 03/16/20								
Mercury	0.279	0.020	0.020	ug/L	0.250		112	85-115			
<b>Duplicate (AC03941-DUP1)</b>			<b>Source: 20C0918-01</b>			Prepared & Analyzed: 03/16/20					
Mercury	ND	0.020	0.020	ug/L		ND				20	U
<b>Matrix Spike (AC03941-MS1)</b>			<b>Source: 20C0918-01</b>			Prepared & Analyzed: 03/16/20					
Mercury	0.288	0.020	0.020	ug/L	0.250	ND	115	70-130			
<b>Matrix Spike Dup (AC03941-MSD1)</b>			<b>Source: 20C0918-01</b>			Prepared & Analyzed: 03/16/20					
Mercury	0.299	0.020	0.020	ug/L	0.250	ND	120	70-130	3.75	20	

**Batch AC03981 - Metals Digest**

<b>Blank (AC03981-BLK1)</b>			Prepared: 03/16/20 Analyzed: 03/19/20								
Tin	ND	0.050	0.050	mg/L							U
<b>LCS (AC03981-BS1)</b>			Prepared: 03/16/20 Analyzed: 03/19/20								
Tin	0.199	0.050	0.050	mg/L	0.200		99.5	85-115			
<b>Duplicate (AC03981-DUP1)</b>			<b>Source: 20C1308-01</b>			Prepared: 03/16/20 Analyzed: 03/19/20					
Tin	ND	0.050	0.050	mg/L		ND				20	U
<b>Matrix Spike (AC03981-MS1)</b>			<b>Source: 20C1308-01</b>			Prepared: 03/16/20 Analyzed: 03/19/20					
Tin	0.200	0.050	0.050	mg/L	0.200	ND	100	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 I0051CUCS

Reported:  
 03/23/20 09:17

**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 AC03981 - Metals Digest**

**Matrix Spike (AC03981-MS2)**

Source: 20C1289-06

Prepared: 03/16/20 Analyzed: 03/19/20

Tin	0.192	0.050	0.050	mg/L	0.200	ND	95.8	70-130			
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**Matrix Spike Dup (AC03981-MSD1)**

Source: 20C1308-01

Prepared: 03/16/20 Analyzed: 03/19/20

Tin	0.197	0.050	0.050	mg/L	0.200	ND	98.7	70-130	1.33	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 I0051CUCS	Reported: 03/23/20 09:17
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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 AC03951 - EPA 200.8**

**Blank (AC03951-BLK1)**

Prepared: 03/16/20 Analyzed: 03/18/20

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	50	ug/L							U
Cadmium	ND	0.060	0.10	ug/L							U
Chromium	ND	0.50	0.50	ug/L							U
Cobalt	ND	0.10	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	ND	0.50	1.0	ug/L							U
Zinc	ND	4.0	5.0	ug/L							U

**LCS (AC03951-BS1)**

Prepared: 03/16/20 Analyzed: 03/18/20

Aluminum	524	5.0	10	ug/L	520	101	85-115
Antimony	19.8	0.20	0.50	ug/L	20.0	99.2	85-115
Arsenic	21.6	0.40	0.50	ug/L	20.0	108	85-115
Barium	19.6	0.20	0.50	ug/L	20.0	98.0	85-115
Beryllium	21.9	0.050	0.10	ug/L	20.0	110	85-115
Boron	106	20	50	ug/L	100	106	85-115
Cadmium	20.1	0.060	0.10	ug/L	20.0	101	85-115
Chromium	21.8	0.50	0.50	ug/L	20.0	109	85-115
Cobalt	22.2	0.10	0.10	ug/L	20.0	111	85-115
Copper	20.6	0.40	0.50	ug/L	20.0	103	85-115
Iron	557	10	50	ug/L	520	107	85-115
Lead	21.0	0.060	0.25	ug/L	20.0	105	85-115
Manganese	20.3	2.0	5.0	ug/L	20.0	102	85-115
Molybdenum	20.7	0.070	0.25	ug/L	20.0	104	85-115
Nickel	20.1	0.30	0.50	ug/L	20.0	100	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 AC03951 - EPA 200.8**

**LCS (AC03951-BS1)**

Prepared: 03/16/20 Analyzed: 03/18/20

Selenium	22.2	0.30	2.0	ug/L	20.0		111	85-115			
Silver	19.5	0.050	0.10	ug/L	20.0		97.6	85-115			
Thallium	20.9	0.050	0.10	ug/L	20.0		105	85-115			
Vanadium	21.5	0.50	1.0	ug/L	20.0		107	85-115			
Zinc	95.8	4.0	5.0	ug/L	100		95.8	85-115			

**Duplicate (AC03951-DUP1)**

Source: 20C1728-01

Prepared: 03/16/20 Analyzed: 03/18/20

Aluminum	ND	20	40	ug/L		ND				20	R-01, U
Antimony	ND	0.80	2.0	ug/L		ND				20	R-01, U
Arsenic	2.82	1.6	2.0	ug/L		3.08			8.75	20	
Barium	117	0.80	2.0	ug/L		117			0.132	20	
Beryllium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Boron	117	80	200	ug/L		114			1.81	20	R-01, J
Cadmium	ND	0.24	0.40	ug/L		ND				20	R-01, U
Chromium	2.89	2.0	2.0	ug/L		3.02			4.31	20	
Cobalt	ND	0.40	0.40	ug/L		ND				20	R-01, U
Copper	167	1.6	2.0	ug/L		167			0.406	20	
Iron	276	40	200	ug/L		275			0.194	20	
Lead	0.555	0.24	1.0	ug/L		0.555			0.0675	20	R-01, J
Manganese	ND	8.0	20	ug/L		ND				20	R-01, U
Molybdenum	0.922	0.28	1.0	ug/L		0.862			6.78	20	R-01, J
Nickel	2.04	1.2	2.0	ug/L		1.95			4.96	20	
Selenium	2.23	1.2	8.0	ug/L		2.24			0.350	20	R-01, J
Silver	ND	0.20	0.40	ug/L		ND				20	R-01, U
Thallium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Vanadium	ND	2.0	4.0	ug/L		ND				20	R-01, U
Zinc	ND	16	20	ug/L		ND				20	R-01, 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 I0051CUCS	Reported: 03/23/20 09:17
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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 AC03951 - EPA 200.8**

**MRL Check (AC03951-MRL1)**

Prepared: 03/16/20 Analyzed: 03/20/20

Nickel	0.755	0.30	0.50	ug/L	0.800		94.3	0-200			
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**Matrix Spike (AC03951-MS1)**

Source: 20C1728-01

Prepared: 03/16/20 Analyzed: 03/18/20

Aluminum	521	20	40	ug/L	520	ND	100	70-130			
Antimony	20.1	0.80	2.0	ug/L	20.0	ND	101	70-130			
Arsenic	24.7	1.6	2.0	ug/L	20.0	3.08	108	70-130			
Barium	136	0.80	2.0	ug/L	20.0	117	94.4	70-130			
Beryllium	21.9	0.20	0.40	ug/L	20.0	ND	110	70-130			
Boron	221	80	200	ug/L	100	114	107	70-130			
Cadmium	20.1	0.24	0.40	ug/L	20.0	ND	100	70-130			
Chromium	24.5	2.0	2.0	ug/L	20.0	3.02	107	70-130			
Cobalt	21.1	0.40	0.40	ug/L	20.0	ND	106	70-130			
Copper	186	1.6	2.0	ug/L	20.0	167	93.3	70-130			
Iron	817	40	200	ug/L	520	275	104	70-130			
Lead	21.1	0.24	1.0	ug/L	20.0	0.555	103	70-130			
Manganese	20.5	8.0	20	ug/L	20.0	ND	103	70-130			
Molybdenum	21.9	0.28	1.0	ug/L	20.0	0.862	105	70-130			
Nickel	20.8	1.2	2.0	ug/L	20.0	1.95	94.0	70-130			
Selenium	24.7	1.2	8.0	ug/L	20.0	2.24	112	70-130			
Silver	19.3	0.20	0.40	ug/L	20.0	ND	96.6	70-130			
Thallium	20.7	0.20	0.40	ug/L	20.0	ND	103	70-130			
Vanadium	22.6	2.0	4.0	ug/L	20.0	ND	113	70-130			
Zinc	93.8	16	20	ug/L	100	ND	93.8	70-130			

**Matrix Spike (AC03951-MS2)**

Source: 20C1728-02

Prepared: 03/16/20 Analyzed: 03/18/20

Aluminum	516	20	40	ug/L	520	21.6	95.0	70-130			
Antimony	19.7	0.80	2.0	ug/L	20.0	ND	98.3	70-130			
Arsenic	24.5	1.6	2.0	ug/L	20.0	3.03	107	70-130			
Barium	127	0.80	2.0	ug/L	20.0	111	81.6	70-130			
Beryllium	21.1	0.20	0.40	ug/L	20.0	ND	105	70-130			
Boron	199	80	200	ug/L	100	99.8	99.3	70-130			R-01, J
Cadmium	19.5	0.24	0.40	ug/L	20.0	ND	97.5	70-130			
Chromium	22.6	2.0	2.0	ug/L	20.0	ND	113	70-130			
Cobalt	20.7	0.40	0.40	ug/L	20.0	ND	104	70-130			
Copper	274	1.6	2.0	ug/L	20.0	261	65.9	70-130			QM-01
Iron	1090	40	200	ug/L	520	576	99.2	70-130			
Lead	22.5	0.24	1.0	ug/L	20.0	2.05	102	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 I0051CUCS	Reported: 03/23/20 09:17
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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 AC03951 - EPA 200.8**

<b>Matrix Spike (AC03951-MS2)</b>		<b>Source: 20C1728-02</b>			<b>Prepared: 03/16/20</b>		<b>Analyzed: 03/18/20</b>		
Manganese	24.5	8.0	20	ug/L	20.0	ND	122	70-130	
Molybdenum	21.8	0.28	1.0	ug/L	20.0	0.928	104	70-130	
Nickel	19.8	1.2	2.0	ug/L	20.0	2.40	86.8	70-130	
Selenium	23.3	1.2	8.0	ug/L	20.0	1.42	109	70-130	
Silver	19.0	0.20	0.40	ug/L	20.0	ND	94.8	70-130	
Thallium	20.8	0.20	0.40	ug/L	20.0	ND	104	70-130	
Vanadium	21.3	2.0	4.0	ug/L	20.0	ND	106	70-130	
Zinc	933	16	20	ug/L	100	873	60.7	70-130	QM-01

<b>Matrix Spike Dup (AC03951-MSD1)</b>		<b>Source: 20C1728-01</b>			<b>Prepared: 03/16/20</b>		<b>Analyzed: 03/18/20</b>			
Aluminum	513	20	40	ug/L	520	ND	98.6	70-130	1.65	20
Antimony	19.9	0.80	2.0	ug/L	20.0	ND	99.5	70-130	1.22	20
Arsenic	24.4	1.6	2.0	ug/L	20.0	3.08	106	70-130	1.38	20
Barium	133	0.80	2.0	ug/L	20.0	117	81.0	70-130	1.99	20
Beryllium	21.4	0.20	0.40	ug/L	20.0	ND	107	70-130	2.54	20
Boron	221	80	200	ug/L	100	114	106	70-130	0.274	20
Cadmium	19.5	0.24	0.40	ug/L	20.0	ND	97.5	70-130	2.96	20
Chromium	23.6	2.0	2.0	ug/L	20.0	3.02	103	70-130	3.90	20
Cobalt	20.4	0.40	0.40	ug/L	20.0	ND	102	70-130	3.54	20
Copper	184	1.6	2.0	ug/L	20.0	167	83.8	70-130	1.03	20
Iron	803	40	200	ug/L	520	275	101	70-130	1.77	20
Lead	20.9	0.24	1.0	ug/L	20.0	0.555	102	70-130	1.26	20
Manganese	20.3	8.0	20	ug/L	20.0	ND	102	70-130	1.04	20
Molybdenum	21.6	0.28	1.0	ug/L	20.0	0.862	104	70-130	1.34	20
Nickel	19.8	1.2	2.0	ug/L	20.0	1.95	89.5	70-130	4.48	20
Selenium	23.9	1.2	8.0	ug/L	20.0	2.24	108	70-130	3.32	20
Silver	18.9	0.20	0.40	ug/L	20.0	ND	94.4	70-130	2.31	20
Thallium	20.7	0.20	0.40	ug/L	20.0	ND	103	70-130	0.0758	20
Vanadium	21.7	2.0	4.0	ug/L	20.0	ND	109	70-130	4.21	20
Zinc	92.5	16	20	ug/L	100	ND	92.5	70-130	1.47	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 I0051CUCS	Reported: 03/23/20 09:17
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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 AC03874 - EPA 300.0**

<b>Blank (AC03874-BLK1)</b>											Prepared & Analyzed: 03/13/20	
Nitrite as NO2	ND	0.20	1.0	mg/L								U
Nitrate as NO3	ND	0.20	1.0	mg/L								U
Fluoride	ND	0.020	0.10	mg/L								U
Sulfate as SO4	ND	0.20	0.50	mg/L								U

<b>LCS (AC03874-BS1)</b>											Prepared & Analyzed: 03/13/20	
Nitrate as NO3	25	0.20	1.0	mg/L	24.7		102	90-110				
Nitrite as NO2	18.1	0.20	1.0	mg/L	18.2		99.5	90-110				
Fluoride	5.74	0.020	0.10	mg/L	5.56		103	90-110				
Sulfate as SO4	22.3	0.20	0.50	mg/L	22.2		100	90-110				

<b>Calibration Check (AC03874-CCV1)</b>											Prepared & Analyzed: 03/13/20	
Sulfate as SO4	14.9	0.20	0.50	mg/L	15.2		98.1	0-200				
Fluoride	2.05	0.020	0.10	mg/L	2.02		102	0-200				
Nitrate as NO3	13	0.20	1.0	mg/L	13.4		96.2	0-200				
Nitrite as NO2	10.4	0.20	1.0	mg/L	9.96		104	0-200				

<b>Calibration Check (AC03874-CCV2)</b>											Prepared & Analyzed: 03/13/20	
Nitrate as NO3	13	0.20	1.0	mg/L	13.4		96.3	0-200				
Fluoride	2.05	0.020	0.10	mg/L	2.02		102	0-200				
Nitrite as NO2	10.4	0.20	1.0	mg/L	9.96		104	0-200				
Sulfate as SO4	14.9	0.20	0.50	mg/L	15.2		98.2	0-200				

<b>Calibration Check (AC03874-CCV3)</b>											Prepared & Analyzed: 03/13/20	
Fluoride	2.07	0.020	0.10	mg/L	2.02		102	0-200				
Nitrate as NO3	13	0.20	1.0	mg/L	13.4		96.7	0-200				
Sulfate as SO4	14.9	0.20	0.50	mg/L	15.2		98.6	0-200				
Nitrite as NO2	10.5	0.20	1.0	mg/L	9.96		105	0-200				

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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 I0051CUCS	Reported: 03/23/20 09:17
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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 AC03874 - EPA 300.0**

<b>Duplicate (AC03874-DUP1)</b>		<b>Source: 20C1664-01</b>			<b>Prepared &amp; Analyzed: 03/13/20</b>						
Sulfate as SO4	3.96	0.20	0.50	mg/L	3.98				0.378	20	
Nitrite as NO2	ND	0.20	1.0	mg/L	ND					20	U
Nitrate as NO3	24	0.20	1.0	mg/L	24				0.0210	20	
Fluoride	0.122	0.020	0.10	mg/L	0.122				0.00	20	

<b>Matrix Spike (AC03874-MS1)</b>		<b>Source: 20C1664-01</b>			<b>Prepared &amp; Analyzed: 03/13/20</b>						
Fluoride	5.28	0.20	1.0	mg/L	5.56	ND	95.0	80-120			
Nitrate as NO3	46	2.0	10	mg/L	24.7	24	87.9	80-120			
Sulfate as SO4	24.2	2.0	5.0	mg/L	22.2	3.98	90.8	80-120			
Nitrite as NO2	17.1	2.0	10	mg/L	18.2	ND	94.1	80-120			

<b>Matrix Spike (AC03874-MS2)</b>		<b>Source: 20C1791-01</b>			<b>Prepared &amp; Analyzed: 03/13/20</b>						
Sulfate as SO4	21.9	2.0	5.0	mg/L	22.2	ND	98.6	80-120			
Nitrite as NO2	17.4	2.0	10	mg/L	18.2	ND	95.7	80-120			
Fluoride	5.28	0.20	1.0	mg/L	5.56	ND	95.0	80-120			
Nitrate as NO3	25	2.0	10	mg/L	24.7	2.2	93.9	80-120			

<b>Matrix Spike Dup (AC03874-MSD1)</b>		<b>Source: 20C1664-01</b>			<b>Prepared &amp; Analyzed: 03/13/20</b>						
Nitrite as NO2	17.2	2.0	10	mg/L	18.2	ND	94.3	80-120	0.213	20	
Nitrate as NO3	45	2.0	10	mg/L	24.7	24	87.1	80-120	0.465	20	
Sulfate as SO4	24.1	2.0	5.0	mg/L	22.2	3.98	90.5	80-120	0.322	20	
Fluoride	5.28	0.20	1.0	mg/L	5.56	ND	95.0	80-120	0.00	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 I0051CUCS

Reported:  
03/23/20 09:17

### 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.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- T-02 Sample analyzed outside of recommended holding time per client.
- 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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# Chain of Custody Record

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

Lab No. 20C0918 Page      of     

Report to: Company: Sample Traps LLC		Invoice to (if different): Company:		Project Info for Report: Project ID: QC- 8oz WM poly		Signature below authorizes work under terms stated on reverse side.												
Attn: Quality Control Manager		Attn:		Project No: Lot Number I0051CUCS		Analyses Requested					TAT	Lab Approval Required For Rush TATs	Sample Notes (lab use only)					
Address:		Address:		PO/Reference :														
Phone/Fax:		Phone/Fax:				Total Number of Containers					Sample Traps Inorganics	Include MDL j-flags	Temperature:  deg. C					
Email Address: admin@sampletraps.com		Email Address:																
Samplers Signature:  N/A		Container:		Preservative:		Matrix:							10 days <input checked="" type="radio"/>	Sample Notes or CDPH Source Numbers:				
Print:		40ml VOA		HCL		Water									5 days <input type="radio"/>			
Sample Identification		Sampled: Date Time		Poly	Glass bottle	Glass Jar	Methanol	Na Bisulfate	Other	None	Water	Container	6	x		x	48 hours <input type="radio"/>	Other: _ days <input type="radio"/>
															I0051CUCS			
Relinquished by: <u>Per BAL</u>		Received by: <u>[Signature]</u>		Date: <u>3-6-20</u>		Time: <u>1200</u>		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: _____										