



Alpha

Alpha Analytical Laboratories, Inc.

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

18 July 2019

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 4oz WM Poly

Work Order: 19G0189

Enclosed are the results of analyses for samples received by the laboratory on 07/02/19 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin

Project Manager



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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 P9189CUCS

Reported:
07/18/19 07:31

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
P9189CUCS	19G0189-01	Water	07/02/19 00:00	07/02/19 08:00



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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 P9189CUCS

Reported:
 07/18/19 07:31

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							

P9189CUCS (19G0189-01) Water **Sampled: 07/02/19 00:00** **Received: 07/02/19 08:00**

Calcium	ND	0.080	1.0	mg/L	1	AG93413	07/09/19 11:45	07/16/19 11:10	EPA 200.7	MAM	U
Magnesium	ND	0.030	1.0	mg/L	1	AG93413	07/09/19 11:45	07/16/19 11:10	EPA 200.7	MAM	U
Potassium	ND	0.090	1.0	mg/L	1	AG93413	07/09/19 11:45	07/16/19 11:10	EPA 200.7	MAM	U
Sodium	ND	0.40	1.0	mg/L	1	AG93413	07/09/19 11:45	07/16/19 11:10	EPA 200.7	MAM	U



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 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 4oz WM Poly
 Project Number: Lot Number P9189CUCS

Reported:
 07/18/19 07:31

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									

P9189CUCS (19G0189-01) Water **Sampled: 07/02/19 00:00** **Received: 07/02/19 08:00**

Mercury	ND	0.020	0.020	ug/L	1	AG93347	07/08/19 09:03	07/10/19 13:05	EPA 245.1	LMR	U
Tin	ND	0.050	0.050	mg/L	1	AG93413	07/09/19 11:45	07/16/19 11:10	EPA 200.7	MAM	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 P9189CUCS

Reported:
 07/18/19 07:31

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
P9189CUCS (19G0189-01) Water												
Sampled: 07/02/19 00:00											Received: 07/02/19 08:00	
												P-02
Aluminum	8.0	5.0	10	ug/L	1	AG93331	07/08/19 09:20	07/11/19 14:35	EPA 200.8	MB	J	
Antimony	ND	0.20	0.50	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Arsenic	ND	0.40	0.50	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Barium	ND	0.20	0.50	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Beryllium	ND	0.050	0.10	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Boron	ND	20	50	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Cadmium	ND	0.060	0.10	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Chromium	ND	0.50	0.50	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Cobalt	ND	0.10	0.10	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Copper	ND	0.40	0.50	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Iron	ND	10	50	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Lead	ND	0.060	0.25	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Manganese	ND	2.0	5.0	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Molybdenum	0.15	0.070	0.25	ug/L	1	AG93331	07/08/19 09:20	07/11/19 14:35	EPA 200.8	MB	J	
Nickel	ND	0.30	0.50	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Selenium	ND	0.30	2.0	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Silver	0.068	0.050	0.10	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	J	
Thallium	ND	0.050	0.10	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Vanadium	ND	0.50	1.0	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	U	
Zinc	ND	4.0	5.0	ug/L	1	AG93331	07/08/19 09:20	07/10/19 00:32	EPA 200.8	MB	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 P9189CUCS	Reported: 07/18/19 07:31
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Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							

P9189CUCS (19G0189-01) Water **Sampled: 07/02/19 00:00** **Received: 07/02/19 08:00**

Fluoride	ND	0.070	0.10	mg/L	1	AG93219	07/02/19 21:23	07/02/19 21:23	EPA 300.0	SMS	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AG93219	07/02/19 21:23	07/02/19 21:23	EPA 300.0	SMS	U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AG93219	07/02/19 21:23	07/02/19 21:23	EPA 300.0	SMS	U
Sulfate as SO4	0.30	0.20	0.50	mg/L	1	AG93219	07/02/19 21:23	07/02/19 21:23	EPA 300.0	SMS	J



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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 AG93413 - Metals Digest

Blank (AG93413-BLK1)											
						Prepared: 07/09/19 Analyzed: 07/12/19					
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

LCS (AG93413-BS1)											
						Prepared: 07/09/19 Analyzed: 07/12/19					
Calcium	7.58	0.080	1.0	mg/L	7.27		104	85-115			
Magnesium	7.83	0.030	1.0	mg/L	7.27		108	85-115			
Potassium	7.55	0.090	1.0	mg/L	7.27		104	85-115			
Sodium	7.97	0.40	1.0	mg/L	7.27		110	85-115			

Duplicate (AG93413-DUP1)											
			Source: 19G0316-01			Prepared: 07/09/19 Analyzed: 07/12/19					
Calcium	24.0	0.080	1.0	mg/L		24.2			0.613	20	
Magnesium	24.0	0.030	1.0	mg/L		24.2			0.808	20	
Potassium	8.41	0.090	1.0	mg/L		8.54			1.46	20	
Sodium	38.0	0.40	1.0	mg/L		38.4			1.16	20	

Matrix Spike (AG93413-MS1)											
			Source: 19G0316-01			Prepared: 07/09/19 Analyzed: 07/12/19					
Calcium	30.6	0.080	1.0	mg/L	7.27	24.2	88.2	70-130			
Magnesium	31.1	0.030	1.0	mg/L	7.27	24.2	94.2	70-130			
Potassium	15.3	0.090	1.0	mg/L	7.27	8.54	92.4	70-130			
Sodium	43.5	0.40	1.0	mg/L	7.27	38.4	70.6	70-130			

Matrix Spike (AG93413-MS2)											
			Source: 19G0647-01			Prepared: 07/09/19 Analyzed: 07/12/19					
Calcium	58.4	0.080	1.0	mg/L	7.27	50.3	112	70-130			
Magnesium	16.3	0.030	1.0	mg/L	7.27	8.98	101	70-130			
Potassium	10.6	0.090	1.0	mg/L	7.27	3.01	104	70-130			
Sodium	24.0	0.40	1.0	mg/L	7.27	16.2	106	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 P9189CUCS

Reported:
 07/18/19 07:31

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 AG93413 - Metals Digest

Matrix Spike Dup (AG93413-MSD1)

Source: 19G0316-01

Prepared: 07/09/19 Analyzed: 07/12/19

Calcium	33.4	0.080	1.0	mg/L	7.27	24.2	126	70-130	8.71	20	
Magnesium	31.6	0.030	1.0	mg/L	7.27	24.2	102	70-130	1.78	20	
Potassium	15.4	0.090	1.0	mg/L	7.27	8.54	94.5	70-130	1.02	20	
Sodium	47.4	0.40	1.0	mg/L	7.27	38.4	124	70-130	8.49	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 P9189CUCS

Reported:
 07/18/19 07:31

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 AG93347 - EPA 245.1 Hg Water

Blank (AG93347-BLK1)					Prepared: 07/08/19 Analyzed: 07/10/19						
Mercury	ND	0.020	0.020	ug/L							U
LCS (AG93347-BS1)					Prepared: 07/08/19 Analyzed: 07/10/19						
Mercury	0.233	0.020	0.020	ug/L	0.250		93.2	85-115			
Duplicate (AG93347-DUP1)					Source: 19G0189-01 Prepared: 07/08/19 Analyzed: 07/10/19						
Mercury	ND	0.020	0.020	ug/L		ND				20	U
Matrix Spike (AG93347-MS1)					Source: 19G0189-01 Prepared: 07/08/19 Analyzed: 07/10/19						
Mercury	0.239	0.020	0.020	ug/L	0.250	ND	95.6	70-130			
Matrix Spike Dup (AG93347-MSD1)					Source: 19G0189-01 Prepared: 07/08/19 Analyzed: 07/10/19						
Mercury	0.243	0.020	0.020	ug/L	0.250	ND	97.2	70-130	1.66	20	

Batch AG93413 - Metals Digest

Blank (AG93413-BLK1)					Prepared: 07/09/19 Analyzed: 07/12/19						
Tin	ND	0.050	0.050	mg/L							U
LCS (AG93413-BS1)					Prepared: 07/09/19 Analyzed: 07/12/19						
Tin	0.179	0.050	0.050	mg/L	0.182		98.6	85-115			
Duplicate (AG93413-DUP1)					Source: 19G0316-01 Prepared: 07/09/19 Analyzed: 07/12/19						
Tin	ND	0.050	0.050	mg/L		ND				20	U
Matrix Spike (AG93413-MS1)					Source: 19G0316-01 Prepared: 07/09/19 Analyzed: 07/12/19						
Tin	0.178	0.050	0.050	mg/L	0.182	ND	98.0	70-130			



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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 AG93413 - Metals Digest

Matrix Spike (AG93413-MS2)		Source: 19G0647-01			Prepared: 07/09/19 Analyzed: 07/12/19						
Tin	0.174	0.050	0.050	mg/L	0.182	ND	95.4	70-130			
Matrix Spike Dup (AG93413-MSD1)		Source: 19G0316-01			Prepared: 07/09/19 Analyzed: 07/12/19						
Tin	0.181	0.050	0.050	mg/L	0.182	ND	99.7	70-130	1.74	20	

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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 AG93331 - EPA 200.8

Blank (AG93331-BLK1)

Prepared: 07/08/19 Analyzed: 07/11/19

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	0.0716	0.050	0.10	ug/L							J
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 (AG93331-BS1)

Prepared: 07/08/19 Analyzed: 07/11/19

Aluminum	500	5.0	10	ug/L	520		96.1	85-115			
Antimony	22.8	0.20	0.50	ug/L	20.0		114	85-115			
Arsenic	20.0	0.40	0.50	ug/L	20.0		99.9	85-115			
Barium	19.2	0.20	0.50	ug/L	20.0		96.0	85-115			
Beryllium	19.7	0.050	0.10	ug/L	20.0		98.5	85-115			
Boron	101	20	50	ug/L	100		101	85-115			
Cadmium	22.1	0.060	0.10	ug/L	20.0		111	85-115			
Chromium	20.2	0.50	0.50	ug/L	20.0		101	85-115			
Cobalt	20.7	0.10	0.10	ug/L	20.0		103	85-115			
Copper	20.0	0.40	0.50	ug/L	20.0		100	85-115			
Iron	523	10	50	ug/L	520		101	85-115			
Lead	20.3	0.060	0.25	ug/L	20.0		101	85-115			
Manganese	19.3	2.0	5.0	ug/L	20.0		96.5	85-115			
Molybdenum	21.2	0.070	0.25	ug/L	20.0		106	85-115			
Nickel	20.8	0.30	0.50	ug/L	20.0		104	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 AG93331 - EPA 200.8

LCS (AG93331-BS1)

Prepared: 07/08/19 Analyzed: 07/09/19

Selenium	19.6	0.30	2.0	ug/L	20.0		98.1	85-115			
Silver	22.2	0.050	0.10	ug/L	20.0		111	85-115			
Thallium	20.1	0.050	0.10	ug/L	20.0		101	85-115			
Vanadium	20.1	0.50	1.0	ug/L	20.0		101	85-115			
Zinc	102	4.0	5.0	ug/L	100		102	85-115			

Duplicate (AG93331-DUP1)

Source: 19G0202-13

Prepared: 07/08/19 Analyzed: 07/11/19

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	ND	1.6	2.0	ug/L		ND			20		R-01, U
Barium	66.8	0.80	2.0	ug/L		65.9			1.31	20	
Beryllium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Boron	ND	80	200	ug/L		ND				20	R-01, U
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	ND	0.40	0.40	ug/L		ND				20	R-01, U
Copper	102	1.6	2.0	ug/L		102			0.247	20	
Iron	144	40	200	ug/L		138			3.73	20	J
Lead	1.83	0.24	1.0	ug/L		1.80			1.48	20	
Manganese	ND	8.0	20	ug/L		ND				20	R-01, U
Molybdenum	7.48	0.28	1.0	ug/L		7.61			1.70	20	
Nickel	2.80	1.2	2.0	ug/L		2.68			4.10	20	
Selenium	ND	1.2	8.0	ug/L		ND				20	R-01, U
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	7.75	2.0	4.0	ug/L		7.30			6.00	20	
Zinc	582	16	20	ug/L		579			0.520	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 P9189CUCS	Reported: 07/18/19 07:31
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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 AG93331 - EPA 200.8

Matrix Spike (AG93331-MS1)	Source: 19G0202-13			Prepared: 07/08/19		Analyzed: 07/11/19				
Aluminum	482	20	40	ug/L	520	ND	92.8	70-130		
Antimony	23.2	0.80	2.0	ug/L	20.0	ND	116	70-130		
Arsenic	20.9	1.6	2.0	ug/L	20.0	ND	105	70-130		
Barium	86.5	0.80	2.0	ug/L	20.0	65.9	103	70-130		
Beryllium	19.4	0.20	0.40	ug/L	20.0	ND	97.1	70-130		
Boron	176	80	200	ug/L	100	ND	176	70-130		QM-4X, R-01, J
Cadmium	21.8	0.24	0.40	ug/L	20.0	ND	109	70-130		
Chromium	20.0	2.0	2.0	ug/L	20.0	ND	99.8	70-130		
Cobalt	20.0	0.40	0.40	ug/L	20.0	ND	100	70-130		
Copper	123	1.6	2.0	ug/L	20.0	102	104	70-130		
Iron	692	40	200	ug/L	520	138	107	70-130		
Lead	21.1	0.24	1.0	ug/L	20.0	1.80	96.4	70-130		
Manganese	19.5	8.0	20	ug/L	20.0	ND	97.3	70-130		R-01, J
Molybdenum	29.7	0.28	1.0	ug/L	20.0	7.61	111	70-130		
Nickel	22.8	1.2	2.0	ug/L	20.0	2.68	101	70-130		
Selenium	21.1	1.2	8.0	ug/L	20.0	ND	105	70-130		
Silver	22.5	0.20	0.40	ug/L	20.0	ND	113	70-130		
Thallium	19.3	0.20	0.40	ug/L	20.0	ND	96.4	70-130		
Vanadium	27.8	2.0	4.0	ug/L	20.0	7.30	102	70-130		
Zinc	684	16	20	ug/L	100	579	105	70-130		

Matrix Spike (AG93331-MS2)	Source: 19G0497-03			Prepared: 07/08/19		Analyzed: 07/11/19				
Aluminum	444	5.0	10	ug/L	520	10.5	83.4	70-130		
Antimony	23.4	0.20	0.50	ug/L	20.0	0.411	115	70-130		
Arsenic	22.9	0.40	0.50	ug/L	20.0	2.27	103	70-130		
Barium	73.9	0.20	0.50	ug/L	20.0	55.2	93.6	70-130		
Beryllium	20.0	0.050	0.10	ug/L	20.0	ND	99.8	70-130		
Boron	505	20	50	ug/L	100	407	98.1	70-130		
Cadmium	20.1	0.060	0.10	ug/L	20.0	ND	101	70-130		
Chromium	18.8	0.50	0.50	ug/L	20.0	ND	93.8	70-130		
Cobalt	18.4	0.10	0.10	ug/L	20.0	0.175	91.0	70-130		
Copper	23.6	0.40	0.50	ug/L	20.0	5.98	88.3	70-130		
Iron	554	10	50	ug/L	520	87.9	89.7	70-130		
Lead	18.4	0.060	0.25	ug/L	20.0	ND	92.2	70-130		
Manganese	20.1	2.0	5.0	ug/L	20.0	2.25	89.3	70-130		
Molybdenum	23.0	0.070	0.25	ug/L	20.0	0.327	113	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 P9189CUCS	Reported: 07/18/19 07:31
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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 AG93331 - EPA 200.8

Matrix Spike (AG93331-MS2)		Source: 19G0497-03			Prepared: 07/08/19		Analyzed: 07/11/19	
Nickel	20.9	0.30	0.50	ug/L	20.0	3.40	87.8	70-130
Selenium	19.7	0.30	2.0	ug/L	20.0	ND	98.6	70-130
Silver	19.0	0.050	0.10	ug/L	20.0	ND	94.9	70-130
Thallium	18.3	0.050	0.10	ug/L	20.0	ND	91.3	70-130
Vanadium	23.3	0.50	1.0	ug/L	20.0	4.17	95.4	70-130
Zinc	135	4.0	5.0	ug/L	100	46.3	88.9	70-130

Matrix Spike Dup (AG93331-MSD1)		Source: 19G0202-13			Prepared: 07/08/19		Analyzed: 07/11/19				
Aluminum	493	20	40	ug/L	520	ND	94.7	70-130	2.11	20	
Antimony	23.2	0.80	2.0	ug/L	20.0	ND	116	70-130	0.127	20	
Arsenic	20.0	1.6	2.0	ug/L	20.0	ND	99.8	70-130	4.76	20	
Barium	85.0	0.80	2.0	ug/L	20.0	65.9	95.5	70-130	1.79	20	
Beryllium	19.0	0.20	0.40	ug/L	20.0	ND	94.8	70-130	2.40	20	
Boron	174	80	200	ug/L	100	ND	174	70-130	1.28	20	QM-4X, R-01, J
Cadmium	21.9	0.24	0.40	ug/L	20.0	ND	110	70-130	0.475	20	
Chromium	19.5	2.0	2.0	ug/L	20.0	ND	97.5	70-130	2.29	20	
Cobalt	20.4	0.40	0.40	ug/L	20.0	ND	102	70-130	1.96	20	
Copper	123	1.6	2.0	ug/L	20.0	102	104	70-130	0.0938	20	
Iron	650	40	200	ug/L	520	138	98.4	70-130	6.32	20	
Lead	21.2	0.24	1.0	ug/L	20.0	1.80	96.8	70-130	0.408	20	
Manganese	18.9	8.0	20	ug/L	20.0	ND	94.7	70-130	2.75	20	R-01, J
Molybdenum	29.7	0.28	1.0	ug/L	20.0	7.61	111	70-130	0.0326	20	
Nickel	22.5	1.2	2.0	ug/L	20.0	2.68	99.1	70-130	1.24	20	
Selenium	21.3	1.2	8.0	ug/L	20.0	ND	107	70-130	1.23	20	
Silver	22.2	0.20	0.40	ug/L	20.0	ND	111	70-130	1.34	20	
Thallium	19.3	0.20	0.40	ug/L	20.0	ND	96.6	70-130	0.243	20	
Vanadium	28.0	2.0	4.0	ug/L	20.0	7.30	103	70-130	0.663	20	
Zinc	685	16	20	ug/L	100	579	105	70-130	0.0313	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 P9189CUCS	Reported: 07/18/19 07:31
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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 AG93219 - EPA 300.0

Blank (AG93219-BLK1)		Prepared & Analyzed: 07/02/19									
Fluoride	ND	0.070	0.10	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
Nitrate as NO3	ND	0.20	1.0	mg/L							U

LCS (AG93219-BS1)		Prepared & Analyzed: 07/02/19									
Fluoride	5.73	0.070	0.10	mg/L	5.56		103	90-110			
Nitrate as NO3	25	0.20	1.0	mg/L	24.7		103	90-110			
Sulfate as SO4	22.1	0.20	0.50	mg/L	22.2		99.3	90-110			
Nitrite as NO2	18.6	0.20	1.0	mg/L	18.2		102	90-110			

Duplicate (AG93219-DUP1)		Source: 19G0124-01		Prepared & Analyzed: 07/02/19								
Nitrite as NO2	ND	0.20	1.0	mg/L		ND					20	U
Sulfate as SO4	17.1	0.20	0.50	mg/L		17.1			0.228		20	
Fluoride	ND	0.070	0.10	mg/L		ND					20	U
Nitrate as NO3	16	0.20	1.0	mg/L		16			0.0122		20	

Matrix Spike (AG93219-MS1)		Source: 19G0124-01		Prepared & Analyzed: 07/02/19								
Nitrate as NO3	41	0.20	1.0	mg/L	24.7	16	99.4	80-120				
Fluoride	5.86	0.070	0.10	mg/L	5.56	ND	105	80-120				
Sulfate as SO4	39.7	0.20	0.50	mg/L	22.2	17.1	102	80-120				
Nitrite as NO2	19.0	0.20	1.0	mg/L	18.2	ND	104	80-120				

Matrix Spike (AG93219-MS2)		Source: 19G0131-01		Prepared & Analyzed: 07/02/19								
Fluoride	6.09	0.070	0.10	mg/L	5.56	ND	110	80-120				
Nitrate as NO3	38	0.20	1.0	mg/L	24.7	12	106	80-120				
Nitrite as NO2	19.5	0.20	1.0	mg/L	18.2	ND	107	80-120				
Sulfate as SO4	46.3	0.20	0.50	mg/L	22.2	22.6	106	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 P9189CUCS

Reported:
 07/18/19 07:31

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 AG93219 - EPA 300.0

Matrix Spike Dup (AG93219-MSD1)

Source: 19G0124-01

Prepared & Analyzed: 07/02/19

Fluoride	5.86	0.070	0.10	mg/L	5.56	ND	106	80-120	0.0948	20	
Nitrite as NO2	19.0	0.20	1.0	mg/L	18.2	ND	104	80-120	0.0578	20	
Sulfate as SO4	39.7	0.20	0.50	mg/L	22.2	17.1	102	80-120	0.0140	20	
Nitrate as NO3	41	0.20	1.0	mg/L	24.7	16	99.4	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- 4oz WM Poly
Project Number: Lot Number P9189CUCS

Reported:
07/18/19 07:31

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-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.
- 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



Laboratory & Corporate: 208 Mason Street, Ukiah, CA 95482
707-468-0401 Fax: 707-468-5267

Service Center & Micro Lab: 6398 Dougherty Rd, Ste 35, Dublin, CA 94568
925-828-6226 Fax: 925-828-6309

Chain of Custody Record

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

Lab No. 1960189 Page of

Report to: Company: Sample Traps LLC		Invoice to (if different): Company: 		Project Info for Report: Project ID: QC- 4oz WM poly		Signature below authorizes work under terms stated on reverse side.																					
Attn: Quality Control Manager		Attn: 		Project No: Lot number P9189CUCS		Analyses Requested					TAT 10 days <input checked="" type="radio"/> RUSH: 5 days <input type="radio"/> 48 hours <input type="radio"/> Other: <input type="radio"/> days		Lab Approval Required For Rush TATs	Sample Notes (lab use only) Temperature: <u> </u> deg. C Shipment Method: <u> </u> Custody Seals: <u>Y / N</u>													
Address: 		Address: 		PO/Reference : 																							
Phone/Fax: 		Phone/Fax: 		Print: N/A		: Total Number of Containers		Sample Traps Inorganics		include MDL j-flags		Sample Notes or CDPH Source Numbers:															
Email Address: admin@sampletraps.com		Email Address: 																									
Samplers Signature: 		Container:		Preservative:		Matrix:		: Total Number of Containers		Sample Traps Inorganics		include MDL j-flags		Sample Notes or CDPH Source Numbers:													
		40ml VOA		HCL		Water																					
Sample Identification		Sampled: Date Time		Poly		Glass bottle		Glass Jar		Methanol		Na Bisulfate		Other		None		Container		: Total Number of Containers		Sample Traps Inorganics		include MDL j-flags		Sample Notes or CDPH Source Numbers:	
P9189CUCS		x x		x												x		x									
Relinquished by:		Received by:		Date:		Time:		: Total Number of Containers		Sample Traps Inorganics		include MDL j-flags		Sample Notes or CDPH Source Numbers:													
<i>Per Sample Traps</i>		<i>[Signature]</i>		<i>7-2-19</i>		<i>0800</i>																					
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