



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

23 April 2020

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 16oz WM Poly

Work Order: 20D1462

Enclosed are the results of analyses for samples received by the laboratory on 04/08/20 20:55. 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
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 16oz WM Poly
Project Number: Lot Number K0099CUCS

Reported:
04/23/20 14:42

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
K0099CUCS	20D1462-01	Water	04/08/20 00:00	04/08/20 20:55



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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K0099CUCS

Reported:
 04/23/20 14:42

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
K0099CUCS (20D1462-01) Water												P-02
Sampled: 04/08/20 00:00 Received: 04/08/20 20:55												
Calcium	ND	0.080	1.0	mg/L	1	AD03963	04/15/20 12:15	04/20/20 16:21	EPA 200.7	MAM	1551	U
Magnesium	ND	0.030	1.0	mg/L	1	AD03963	04/15/20 12:15	04/20/20 16:21	EPA 200.7	MAM	1551	U
Potassium	ND	0.090	1.0	mg/L	1	AD03963	04/15/20 12:15	04/20/20 16:21	EPA 200.7	MAM	1551	U
Sodium	ND	0.40	1.0	mg/L	1	AD03963	04/15/20 12:15	04/20/20 16:21	EPA 200.7	MAM	1551	U



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 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K0099CUCS

Reported:
 04/23/20 14:42

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
K0099CUCS (20D1462-01) Water Sampled: 04/08/20 00:00 Received: 04/08/20 20:55												
Mercury	ND	0.020	0.020	ug/L	1	AD04421	04/22/20 08:15	04/23/20 09:40	EPA 245.1	LMR	1551	U
Tin	ND	0.050	0.050	mg/L	1	AD03963	04/15/20 12:15	04/20/20 16:21	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- 16oz WM Poly
 Project Number: Lot Number K0099CUCS

Reported:
 04/23/20 14:42

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
K0099CUCS (20D1462-01) Water Sampled: 04/08/20 00:00 Received: 04/08/20 20:55												
Aluminum	ND	5.0	10	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Antimony	ND	0.20	0.50	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Arsenic	ND	0.40	0.50	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Barium	ND	0.20	0.50	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Beryllium	ND	0.050	0.10	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Boron	ND	20	50	ug/L	1	AD04035	04/16/20 13:30	04/22/20 10:43	EPA 200.8	MB	1551	U
Cadmium	ND	0.060	0.10	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Chromium	ND	0.50	0.50	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Cobalt	ND	0.10	0.10	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Copper	ND	0.40	0.50	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Iron	ND	10	50	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Lead	ND	0.060	0.25	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Manganese	ND	2.0	5.0	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Molybdenum	ND	0.070	0.25	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Nickel	ND	0.30	0.50	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Selenium	ND	0.30	2.0	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Silver	0.10	0.050	0.10	ug/L	1	AD04035	04/16/20 13:30	04/22/20 10:43	EPA 200.8	MB	1551	
Thallium	ND	0.050	0.10	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Vanadium	ND	0.50	1.0	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	EPA 200.8	MB	1551	U
Zinc	ND	4.0	5.0	ug/L	1	AD04035	04/16/20 13:30	04/21/20 18:36	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- 16oz WM Poly
 Project Number: Lot Number K0099CUCS

Reported:
 04/23/20 14:42

Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
K0099CUCS (20D1462-01) Water Sampled: 04/08/20 00:00 Received: 04/08/20 20:55												
Fluoride	ND	0.020	0.10	mg/L	1	AD04163	04/17/20 22:09	04/17/20 22:09	EPA 300.0	SMS	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AD04163	04/17/20 22:09	04/17/20 22:09	EPA 300.0	SMS	1551	T-15, U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AD04163	04/17/20 22:09	04/17/20 22:09	EPA 300.0	SMS	1551	T-15, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AD04163	04/17/20 22:09	04/17/20 22:09	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- 16oz WM Poly Project Number: Lot Number K0099CUCS	Reported: 04/23/20 14:42
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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 AD03963 - Metals Digest

Blank (AD03963-BLK1) Prepared: 04/15/20 Analyzed: 04/20/20

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

LCS (AD03963-BS1) Prepared: 04/15/20 Analyzed: 04/20/20

Calcium	8.27	0.080	1.0	mg/L	8.00		103	85-115			
Magnesium	8.50	0.030	1.0	mg/L	8.00		106	85-115			
Potassium	8.22	0.090	1.0	mg/L	7.80		105	85-115			
Sodium	8.18	0.40	1.0	mg/L	8.00		102	85-115			

Duplicate (AD03963-DUP1) Source: 20D1274-01 Prepared: 04/15/20 Analyzed: 04/20/20

Calcium	44.0	0.080	1.0	mg/L		44.6			1.31	20	
Magnesium	6.77	0.030	1.0	mg/L		7.08			4.42	20	
Potassium	0.952	0.090	1.0	mg/L		0.964			1.27	20	J
Sodium	15.1	0.40	1.0	mg/L		15.4			1.60	20	

Matrix Spike (AD03963-MS1) Source: 20D1274-01 Prepared: 04/15/20 Analyzed: 04/20/20

Calcium	49.8	0.080	1.0	mg/L	8.00	44.6	65.3	70-130			QM-4X
Magnesium	13.7	0.030	1.0	mg/L	8.00	7.08	82.6	70-130			
Potassium	9.09	0.090	1.0	mg/L	7.80	0.964	104	70-130			
Sodium	22.5	0.40	1.0	mg/L	8.00	15.4	88.5	70-130			

Matrix Spike (AD03963-MS2) Source: 20D1251-01 Prepared: 04/15/20 Analyzed: 04/20/20

Calcium	36.5	0.080	1.0	mg/L	8.00	28.0	106	70-130			
Magnesium	26.1	0.030	1.0	mg/L	8.00	18.4	95.8	70-130			
Potassium	12.9	0.090	1.0	mg/L	7.80	4.59	107	70-130			
Sodium	30.7	0.40	1.0	mg/L	8.00	23.6	88.6	70-130			

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 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K0099CUCS

Reported:
 04/23/20 14:42

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 AD03963 - Metals Digest

Matrix Spike Dup (AD03963-MSD1)

Source: 20D1274-01

Prepared: 04/15/20 Analyzed: 04/20/20

Calcium	53.3	0.080	1.0	mg/L	8.00	44.6	108	70-130	6.64	20	
Magnesium	14.4	0.030	1.0	mg/L	8.00	7.08	91.5	70-130	5.09	20	
Potassium	9.10	0.090	1.0	mg/L	7.80	0.964	104	70-130	0.0751	20	
Sodium	23.5	0.40	1.0	mg/L	8.00	15.4	102	70-130	4.53	20	



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz WM Poly Project Number: Lot Number K0099CUCS	Reported: 04/23/20 14:42
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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 AD03963 - Metals Digest

Blank (AD03963-BLK1)					Prepared: 04/15/20 Analyzed: 04/20/20						
Tin	ND	0.050	0.050	mg/L							U
LCS (AD03963-BS1)					Prepared: 04/15/20 Analyzed: 04/20/20						
Tin	0.206	0.050	0.050	mg/L	0.200		103	85-115			
Duplicate (AD03963-DUP1)					Source: 20D1274-01 Prepared: 04/15/20 Analyzed: 04/20/20						
Tin	ND	0.050	0.050	mg/L		ND				20	U
Matrix Spike (AD03963-MS1)					Source: 20D1274-01 Prepared: 04/15/20 Analyzed: 04/20/20						
Tin	0.199	0.050	0.050	mg/L	0.200	ND	99.6	70-130			
Matrix Spike (AD03963-MS2)					Source: 20D1251-01 Prepared: 04/15/20 Analyzed: 04/20/20						
Tin	0.206	0.050	0.050	mg/L	0.200	ND	103	70-130			
Matrix Spike Dup (AD03963-MSD1)					Source: 20D1274-01 Prepared: 04/15/20 Analyzed: 04/20/20						
Tin	0.209	0.050	0.050	mg/L	0.200	ND	104	70-130	4.65	20	

Batch AD04421 - EPA 245.1 Hg Water

Blank (AD04421-BLK1)					Prepared: 04/22/20 Analyzed: 04/23/20						
Mercury	ND	0.020	0.020	ug/L							U
LCS (AD04421-BS1)					Prepared: 04/22/20 Analyzed: 04/23/20						
Mercury	0.225	0.020	0.020	ug/L	0.250		90.0	85-115			
Duplicate (AD04421-DUP1)					Source: 20D1462-01 Prepared: 04/22/20 Analyzed: 04/23/20						
Mercury	ND	0.020	0.020	ug/L		ND				20	U

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 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 16oz WM Poly
 Project Number: Lot Number K0099CUCS

Reported:
 04/23/20 14:42

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 AD04421 - EPA 245.1 Hg Water

Matrix Spike (AD04421-MS1)		Source: 20D1462-01			Prepared: 04/22/20 Analyzed: 04/23/20						
Mercury	0.217	0.020	0.020	ug/L	0.250	ND	86.8	70-130			
Matrix Spike Dup (AD04421-MSD1)		Source: 20D1462-01			Prepared: 04/22/20 Analyzed: 04/23/20						
Mercury	0.223	0.020	0.020	ug/L	0.250	ND	89.2	70-130	2.73	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 AD04035 - EPA 200.8

Blank (AD04035-BLK1)

Prepared: 04/16/20 Analyzed: 04/21/20

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 (AD04035-BS1)

Prepared: 04/16/20 Analyzed: 04/21/20

Aluminum	514	5.0	10	ug/L	520		98.9	85-115			
Antimony	22.7	0.20	0.50	ug/L	20.0		114	85-115			
Arsenic	22.1	0.40	0.50	ug/L	20.0		110	85-115			
Barium	22.9	0.20	0.50	ug/L	20.0		115	85-115			
Beryllium	22.9	0.050	0.10	ug/L	20.0		115	85-115			
Boron	109	20	50	ug/L	100		109	85-115			
Cadmium	22.2	0.060	0.10	ug/L	20.0		111	85-115			
Chromium	21.9	0.50	0.50	ug/L	20.0		109	85-115			
Cobalt	20.2	0.10	0.10	ug/L	20.0		101	85-115			
Copper	19.7	0.40	0.50	ug/L	20.0		98.4	85-115			
Iron	540	10	50	ug/L	520		104	85-115			
Lead	20.8	0.060	0.25	ug/L	20.0		104	85-115			
Manganese	20.8	2.0	5.0	ug/L	20.0		104	85-115			
Molybdenum	21.3	0.070	0.25	ug/L	20.0		107	85-115			
Nickel	20.5	0.30	0.50	ug/L	20.0		102	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 AD04035 - EPA 200.8

LCS (AD04035-BS1)

Prepared: 04/16/20 Analyzed: 04/21/20

Selenium	21.9	0.30	2.0	ug/L	20.0		110	85-115			
Silver	21.3	0.050	0.10	ug/L	20.0		106	85-115			
Thallium	20.6	0.050	0.10	ug/L	20.0		103	85-115			
Vanadium	22.0	0.50	1.0	ug/L	20.0		110	85-115			
Zinc	110	4.0	5.0	ug/L	100		110	85-115			

Duplicate (AD04035-DUP1)

Source: 20D1462-01

Prepared: 04/16/20 Analyzed: 04/21/20

Aluminum	ND	5.0	10	ug/L		ND			20		U
Antimony	ND	0.20	0.50	ug/L		ND			20		U
Arsenic	ND	0.40	0.50	ug/L		ND			20		U
Barium	ND	0.20	0.50	ug/L		ND			20		U
Beryllium	ND	0.050	0.10	ug/L		ND			20		U
Boron	ND	20	50	ug/L		ND			20		U
Cadmium	ND	0.060	0.10	ug/L		ND			20		U
Chromium	ND	0.50	0.50	ug/L		ND			20		U
Cobalt	ND	0.10	0.10	ug/L		ND			20		U
Copper	ND	0.40	0.50	ug/L		ND			20		U
Iron	ND	10	50	ug/L		ND			20		U
Lead	ND	0.060	0.25	ug/L		ND			20		U
Manganese	ND	2.0	5.0	ug/L		ND			20		U
Molybdenum	ND	0.070	0.25	ug/L		ND			20		U
Nickel	ND	0.30	0.50	ug/L		ND			20		U
Selenium	ND	0.30	2.0	ug/L		ND			20		U
Silver	0.0756	0.050	0.10	ug/L		0.101			28.9		J
Thallium	ND	0.050	0.10	ug/L		ND			20		U
Vanadium	ND	0.50	1.0	ug/L		ND			20		U
Zinc	ND	4.0	5.0	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- 16oz WM Poly Project Number: Lot Number K0099CUCS	Reported: 04/23/20 14:42
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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 AD04035 - EPA 200.8

Matrix Spike (AD04035-MS1)	Source: 20D1462-01			Prepared: 04/16/20 Analyzed: 04/21/20							
Aluminum	504	5.0	10	ug/L	520	ND	97.0	70-130			
Antimony	22.1	0.20	0.50	ug/L	20.0	ND	111	70-130			
Arsenic	22.3	0.40	0.50	ug/L	20.0	ND	111	70-130			
Barium	21.9	0.20	0.50	ug/L	20.0	ND	110	70-130			
Beryllium	22.2	0.050	0.10	ug/L	20.0	ND	111	70-130			
Boron	106	20	50	ug/L	100	ND	106	70-130			
Cadmium	21.5	0.060	0.10	ug/L	20.0	ND	108	70-130			
Chromium	21.5	0.50	0.50	ug/L	20.0	ND	108	70-130			
Cobalt	19.9	0.10	0.10	ug/L	20.0	ND	99.5	70-130			
Copper	20.0	0.40	0.50	ug/L	20.0	ND	99.9	70-130			
Iron	533	10	50	ug/L	520	ND	103	70-130			
Lead	20.3	0.060	0.25	ug/L	20.0	ND	101	70-130			
Manganese	20.4	2.0	5.0	ug/L	20.0	ND	102	70-130			
Molybdenum	20.7	0.070	0.25	ug/L	20.0	ND	103	70-130			
Nickel	20.2	0.30	0.50	ug/L	20.0	ND	101	70-130			
Selenium	22.1	0.30	2.0	ug/L	20.0	ND	111	70-130			
Silver	21.1	0.050	0.10	ug/L	20.0	0.101	105	70-130			
Thallium	19.9	0.050	0.10	ug/L	20.0	ND	99.6	70-130			
Vanadium	21.7	0.50	1.0	ug/L	20.0	ND	108	70-130			
Zinc	112	4.0	5.0	ug/L	100	ND	112	70-130			

Matrix Spike (AD04035-MS2)	Source: 20D1213-01			Prepared: 04/16/20 Analyzed: 04/21/20							
Aluminum	562	20	40	ug/L	520	42.9	99.7	70-130			
Antimony	23.4	0.80	2.0	ug/L	20.0	1.12	112	70-130			
Arsenic	26.2	1.6	2.0	ug/L	20.0	ND	131	70-130			QM-01
Barium	30.0	0.80	2.0	ug/L	20.0	9.96	100	70-130			
Beryllium	21.8	0.20	0.40	ug/L	20.0	ND	109	70-130			
Boron	115	80	200	ug/L	100	ND	115	70-130			R-01, J
Cadmium	21.8	0.24	0.40	ug/L	20.0	ND	109	70-130			
Chromium	22.5	2.0	2.0	ug/L	20.0	ND	113	70-130			
Cobalt	20.4	0.40	0.40	ug/L	20.0	ND	102	70-130			
Copper	29.9	1.6	2.0	ug/L	20.0	32.1	NR	70-130			QM-01
Iron	628	40	200	ug/L	520	80.7	105	70-130			
Lead	20.8	0.24	1.0	ug/L	20.0	0.856	100	70-130			
Manganese	23.4	8.0	20	ug/L	20.0	ND	117	70-130			
Molybdenum	21.3	0.28	1.0	ug/L	20.0	0.403	104	70-130			
Nickel	21.1	1.2	2.0	ug/L	20.0	ND	105	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz WM Poly Project Number: Lot Number K0099CUCS	Reported: 04/23/20 14:42
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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 AD04035 - EPA 200.8

Matrix Spike (AD04035-MS2)	Source: 20D1213-01			Prepared: 04/16/20 Analyzed: 04/21/20							
Selenium	26.1	1.2	8.0	ug/L	20.0	ND	131	70-130			QM-01
Silver	22.8	0.20	0.40	ug/L	20.0	0.740	110	70-130			
Thallium	20.6	0.20	0.40	ug/L	20.0	ND	103	70-130			
Vanadium	22.8	2.0	4.0	ug/L	20.0	ND	114	70-130			
Zinc	263	16	20	ug/L	100	144	119	70-130			

Matrix Spike Dup (AD04035-MSD1)	Source: 20D1462-01			Prepared: 04/16/20 Analyzed: 04/21/20							
Aluminum	511	5.0	10	ug/L	520	ND	98.3	70-130	1.36	20	
Antimony	22.3	0.20	0.50	ug/L	20.0	ND	112	70-130	1.01	20	
Arsenic	22.7	0.40	0.50	ug/L	20.0	ND	113	70-130	1.65	20	
Barium	22.3	0.20	0.50	ug/L	20.0	ND	111	70-130	1.69	20	
Beryllium	22.2	0.050	0.10	ug/L	20.0	ND	111	70-130	0.00473	20	
Boron	107	20	50	ug/L	100	ND	107	70-130	1.08	20	
Cadmium	22.0	0.060	0.10	ug/L	20.0	ND	110	70-130	2.21	20	
Chromium	21.8	0.50	0.50	ug/L	20.0	ND	109	70-130	1.40	20	
Cobalt	20.3	0.10	0.10	ug/L	20.0	ND	101	70-130	1.81	20	
Copper	20.4	0.40	0.50	ug/L	20.0	ND	102	70-130	2.31	20	
Iron	542	10	50	ug/L	520	ND	104	70-130	1.56	20	
Lead	20.5	0.060	0.25	ug/L	20.0	ND	103	70-130	1.25	20	
Manganese	20.8	2.0	5.0	ug/L	20.0	ND	104	70-130	1.65	20	
Molybdenum	20.8	0.070	0.25	ug/L	20.0	ND	104	70-130	0.681	20	
Nickel	20.3	0.30	0.50	ug/L	20.0	ND	101	70-130	0.332	20	
Selenium	22.5	0.30	2.0	ug/L	20.0	ND	113	70-130	1.78	20	
Silver	21.4	0.050	0.10	ug/L	20.0	0.101	106	70-130	1.28	20	
Thallium	20.2	0.050	0.10	ug/L	20.0	ND	101	70-130	1.58	20	
Vanadium	21.9	0.50	1.0	ug/L	20.0	ND	110	70-130	0.970	20	
Zinc	112	4.0	5.0	ug/L	100	ND	112	70-130	0.0600	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz WM Poly Project Number: Lot Number K0099CUCS	Reported: 04/23/20 14:42
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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 AD04163 - EPA 300.0

Blank (AD04163-BLK1)											
											Prepared & Analyzed: 04/17/20
Nitrite as NO2	ND	0.20	1.0	mg/L							U
Nitrate as NO3	ND	0.20	1.0	mg/L							U
Sulfate as SO4	ND	0.20	0.50	mg/L							U
Fluoride	ND	0.020	0.10	mg/L							U

LCS (AD04163-BS1)											
											Prepared & Analyzed: 04/17/20
Fluoride	5.85	0.020	0.10	mg/L	5.56		105	90-110			
Nitrate as NO3	26	0.20	1.0	mg/L	24.7		104	90-110			
Nitrite as NO2	18.5	0.20	1.0	mg/L	18.2		102	90-110			
Sulfate as SO4	22.7	0.20	0.50	mg/L	22.2		102	90-110			

Duplicate (AD04163-DUP1)											
											Source: 20D2016-01
											Prepared & Analyzed: 04/17/20
Nitrite as NO2	ND	0.20	1.0	mg/L		ND				20	U
Fluoride	0.302	0.020	0.10	mg/L		0.306			1.32	20	
Nitrate as NO3	11	0.20	1.0	mg/L		11			0.0787	20	
Sulfate as SO4	25.3	0.20	0.50	mg/L		25.2			0.273	20	

Matrix Spike (AD04163-MS1)											
											Source: 20D2016-01
											Prepared & Analyzed: 04/17/20
Fluoride	5.69	0.20	1.0	mg/L	5.56	0.306	96.9	80-120			
Nitrate as NO3	35	2.0	10	mg/L	24.7	11	96.4	80-120			
Nitrite as NO2	18.0	2.0	10	mg/L	18.2	ND	98.9	80-120			
Sulfate as SO4	45.2	2.0	5.0	mg/L	22.2	25.2	90.0	80-120			

Matrix Spike (AD04163-MS2)											
											Source: 20D2089-01
											Prepared & Analyzed: 04/17/20
Nitrate as NO3	24	2.0	10	mg/L	24.7	ND	97.2	80-120			
Nitrite as NO2	18.0	2.0	10	mg/L	18.2	ND	98.9	80-120			
Sulfate as SO4	20.9	2.0	5.0	mg/L	22.2	ND	93.9	80-120			
Fluoride	5.34	0.20	1.0	mg/L	5.56	ND	96.2	80-120			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 16oz WM Poly Project Number: Lot Number K0099CUCS	Reported: 04/23/20 14:42
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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 AD04163 - EPA 300.0

Matrix Spike Dup (AD04163-MSD1)	Source: 20D2016-01				Prepared & Analyzed: 04/17/20						
Fluoride	5.47	0.20	1.0	mg/L	5.56	0.306	92.9	80-120	3.98	20	
Nitrite as NO2	17.4	2.0	10	mg/L	18.2	ND	95.5	80-120	3.51	20	
Nitrate as NO3	34	2.0	10	mg/L	24.7	11	91.8	80-120	3.24	20	
Sulfate as SO4	44.1	2.0	5.0	mg/L	22.2	25.2	85.0	80-120	2.46	20	

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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 16oz WM Poly
Project Number: Lot Number K0099CUCS

Reported:
04/23/20 14:42

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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Chain of Custody Record

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

Lab No. 20D1442 Page of

Report to: Company: Sample Traps LLC Attn: Quality Control Manager Address: Phone/Fax: Email Address: admin@sampletraps.com		Project Info for Report: Project ID: QC- 16oz WM poly Project No: Lot number K0099CUCS PO/Reference:		Signature below authorizes work under terms stated on reverse side.	
Samplers Signature: Print: N/A		Container: 40ml VOA <input type="checkbox"/> Glass bottle <input type="checkbox"/> Glass Jar <input type="checkbox"/> Poly <input checked="" type="checkbox"/>		Analyses Requested	
Preservative: Methanol <input type="checkbox"/> HCL <input type="checkbox"/> Na Bisulfate <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Water <input type="checkbox"/> Container <input type="checkbox"/>		Matrix: Sample Traps Inorganics <input checked="" type="checkbox"/> Include MDL flags <input type="checkbox"/>		TAT 10 days <input type="checkbox"/> RUSH: 5 days <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Other: <input type="checkbox"/> days	
Sample Identification K0099CUCS		Sample Notes or CDPH Source Numbers:		Sample Notes (lab use only) Temperature: _____ deg. C Shipment Method: _____ Custody Seals: Y / N	
Relinquished by: Dave Pann <i>[Signature]</i>		Date: 4/8/20 2055		CDPH Write On EDT Transmission? Yes <input type="checkbox"/> No <input type="checkbox"/>	
State System Number:		Global ID:		CA Geotracker EDF Report? Yes <input type="checkbox"/> No <input type="checkbox"/>	
State System Number:		EDF to (Email Address):		Sampling Company Log Code:	
State System Number:		Travel and Site Time:		Mileage:	
Misc. Supplies:		Misc. Supplies:		Misc. Supplies:	