



alpha

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

02 October 2019

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 32oz. WM HDPE

Work Order: 19I1903

Enclosed are the results of analyses for samples received by the laboratory on 09/16/19 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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- 32oz. WM HDPE
Project Number: Lot Number L9252CUCS

Reported:
10/02/19 10:51

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
L9252CUCS	1911903-01	Water	09/16/19 00:00	09/16/19 08:00



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 32oz. WM HDPE Project Number: Lot Number L9252CUCS	Reported: 10/02/19 10:51
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Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
L9252CUCS (19I1903-01) Water Sampled: 09/16/19 00:00 Received: 09/16/19 08:00												
Calcium	ND	0.080	1.0		mg/L	1	A193981	09/20/19 14:30	09/25/19 16:56	EPA 200.7	MAM	U
Magnesium	ND	0.030	1.0		mg/L	1	A193981	09/20/19 14:30	09/25/19 16:56	EPA 200.7	MAM	U
Potassium	ND	0.090	1.0		mg/L	1	A193981	09/20/19 14:30	09/25/19 16:56	EPA 200.7	MAM	U
Sodium	ND	0.40	1.0		mg/L	1	A193981	09/20/19 14:30	09/25/19 16:56	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- 32oz. WM HDPE
Project Number: Lot Number L9252CUCS

Reported:
10/02/19 10:51

Metals by EPA 200 Series Methods

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

L9252CUCS (19I1903-01) Water **Sampled: 09/16/19 00:00** **Received: 09/16/19 08:00**

Mercury	ND	0.020	0.020	ug/L	1	A194268	09/26/19 06:26	09/26/19 15:09	EPA 245.1	LMR	U
Tin	ND	0.050	0.050	mg/L	1	A193981	09/20/19 14:30	09/25/19 16:56	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- 32oz. WM HDPE
 Project Number: Lot Number L9252CUCS

Reported:
 10/02/19 10:51

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
L9252CUCS (19I1903-01) Water Sampled: 09/16/19 00:00 Received: 09/16/19 08:00												
Aluminum	ND	5.0	10		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Antimony	ND	0.20	0.50		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Arsenic	ND	0.40	0.50		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Barium	ND	0.20	0.50		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Beryllium	ND	0.050	0.10		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Boron	ND	20	50		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Cadmium	ND	0.060	0.10		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Chromium	ND	0.50	0.50		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Cobalt	ND	0.10	0.10		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Copper	0.44	0.40	0.50		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	J
Iron	ND	10	50		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Lead	ND	0.060	0.25		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Manganese	ND	2.0	5.0		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Molybdenum	ND	0.070	0.25		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Nickel	ND	0.30	0.50		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Selenium	ND	0.30	2.0		ug/L	1	AI93977	09/20/19 17:00	09/24/19 12:04	EPA 200.8	SMP	U
Silver	ND	0.050	0.10		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Thallium	ND	0.050	0.10		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Vanadium	ND	0.50	1.0		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U
Zinc	ND	4.0	5.0		ug/L	1	AI93977	09/20/19 17:00	09/23/19 19:21	EPA 200.8	SMP	U



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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 32oz. WM HDPE
 Project Number: Lot Number L9252CUCS

Reported:
 10/02/19 10:51

Anions by EPA Method 300.0

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

L9252CUCS (19I1903-01) Water **Sampled: 09/16/19 00:00** **Received: 09/16/19 08:00**

Fluoride	ND	0.070	0.10	mg/L	1	A194079	09/23/19 23:54	09/23/19 23:54	EPA 300.0	SMS	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	A194079	09/23/19 23:54	09/23/19 23:54	EPA 300.0	SMS	T-15, U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	A194079	09/23/19 23:54	09/23/19 23:54	EPA 300.0	SMS	T-15, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	A194079	09/23/19 23:54	09/23/19 23:54	EPA 300.0	SMS	U



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 32oz. WM HDPE Project Number: Lot Number L9252CUCS	Reported: 10/02/19 10:51
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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 AI93981 - Metals Digest

Blank (AI93981-BLK1)		Prepared: 09/20/19 Analyzed: 09/25/19									
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 (AI93981-BS1)		Prepared: 09/20/19 Analyzed: 09/25/19									
Calcium	8.22	0.080	1.0	mg/L	8.00		103	85-115			
Magnesium	8.41	0.030	1.0	mg/L	8.00		105	85-115			
Potassium	8.10	0.090	1.0	mg/L	8.00		101	85-115			
Sodium	8.00	0.40	1.0	mg/L	8.00		100	85-115			

Duplicate (AI93981-DUP1)		Source: 19I1591-01		Prepared: 09/20/19 Analyzed: 09/25/19							
Calcium	64.4	0.080	1.0	mg/L		64.5			0.116	20	
Magnesium	12.1	0.030	1.0	mg/L		12.5			3.20	20	
Potassium	6.03	0.090	1.0	mg/L		6.00			0.499	20	
Sodium	38.7	0.40	1.0	mg/L		38.6			0.321	20	

Matrix Spike (AI93981-MS1)		Source: 19I1591-01		Prepared: 09/20/19 Analyzed: 09/25/19							
Calcium	69.5	0.080	1.0	mg/L	8.00	64.5	62.7	70-130			QM-4X
Magnesium	20.0	0.030	1.0	mg/L	8.00	12.5	93.6	70-130			
Potassium	13.4	0.090	1.0	mg/L	8.00	6.00	91.9	70-130			
Sodium	43.9	0.40	1.0	mg/L	8.00	38.6	66.2	70-130			QM-4X

Matrix Spike (AI93981-MS2)		Source: 19I1468-02		Prepared: 09/20/19 Analyzed: 09/25/19							
Calcium	60.3	0.080	1.0	mg/L	8.00	53.1	89.5	70-130			
Magnesium	28.3	0.030	1.0	mg/L	8.00	20.7	94.5	70-130			
Potassium	16.3	0.090	1.0	mg/L	8.00	9.36	86.4	70-130			
Sodium	114	0.40	1.0	mg/L	8.00	107	78.6	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 32oz. WM HDPE Project Number: Lot Number L9252CUCS	Reported: 10/02/19 10:51
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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 AI93981 - Metals Digest

Matrix Spike Dup (AI93981-MSD1)	Source: 1911591-01			Prepared: 09/20/19 Analyzed: 09/25/19						
Calcium	71.2	0.080	1.0	mg/L	8.00	64.5	83.5	70-130	2.37	20
Magnesium	19.9	0.030	1.0	mg/L	8.00	12.5	92.2	70-130	0.588	20
Potassium	13.3	0.090	1.0	mg/L	8.00	6.00	90.7	70-130	0.762	20
Sodium	44.8	0.40	1.0	mg/L	8.00	38.6	77.2	70-130	1.99	20

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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 AI93981 - Metals Digest

Blank (AI93981-BLK1)				Prepared: 09/20/19 Analyzed: 09/25/19							
Tin	ND	0.050	0.050	mg/L							U
LCS (AI93981-BS1)				Prepared: 09/20/19 Analyzed: 09/25/19							
Tin	0.203	0.050	0.050	mg/L	0.200		102	85-115			
Duplicate (AI93981-DUP1)		Source: 19I1591-01		Prepared: 09/20/19 Analyzed: 09/25/19							
Tin	ND	0.050	0.050	mg/L		ND				20	U
Matrix Spike (AI93981-MS1)		Source: 19I1591-01		Prepared: 09/20/19 Analyzed: 09/25/19							
Tin	0.197	0.050	0.050	mg/L	0.200	ND	98.5	70-130			
Matrix Spike (AI93981-MS2)		Source: 19I1468-02		Prepared: 09/20/19 Analyzed: 09/25/19							
Tin	0.191	0.050	0.050	mg/L	0.200	ND	95.6	70-130			
Matrix Spike Dup (AI93981-MSD1)		Source: 19I1591-01		Prepared: 09/20/19 Analyzed: 09/25/19							
Tin	0.192	0.050	0.050	mg/L	0.200	ND	96.1	70-130	2.51	20	

Batch AI94268 - EPA 245.1 Hg Water

Blank (AI94268-BLK1)				Prepared & Analyzed: 09/26/19							
Mercury	ND	0.020	0.020	ug/L							U
LCS (AI94268-BS1)				Prepared & Analyzed: 09/26/19							
Mercury	0.246	0.020	0.020	ug/L	0.250		98.4	85-115			
Duplicate (AI94268-DUP1)		Source: 19I1903-01		Prepared & Analyzed: 09/26/19							
Mercury	ND	0.020	0.020	ug/L		ND				20	U

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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 AI94268 - EPA 245.1 Hg Water

Matrix Spike (AI94268-MS1)		Source: 19I1903-01			Prepared & Analyzed: 09/26/19						
Mercury	0.247	0.020	0.020	ug/L	0.250	ND	98.8	70-130			
Matrix Spike Dup (AI94268-MSD1)		Source: 19I1903-01			Prepared & Analyzed: 09/26/19						
Mercury	0.252	0.020	0.020	ug/L	0.250	ND	101	70-130	2.00	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 AI93977 - EPA 200.8

Blank (AI93977-BLK1)

Prepared: 09/20/19 Analyzed: 09/23/19

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	0.218	0.20	0.50	ug/L							J
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	0.404	0.30	2.0	ug/L							J
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 (AI93977-BS1)

Prepared: 09/20/19 Analyzed: 09/23/19

Aluminum	520	5.0	10	ug/L	520	100	85-115
Antimony	20.7	0.20	0.50	ug/L	20.0	104	85-115
Arsenic	23.1	0.40	0.50	ug/L	20.0	115	85-115
Barium	20.3	0.20	0.50	ug/L	20.0	101	85-115
Beryllium	20.2	0.050	0.10	ug/L	20.0	101	85-115
Boron	99.3	20	50	ug/L	100	99.3	85-115
Cadmium	20.4	0.060	0.10	ug/L	20.0	102	85-115
Chromium	20.4	0.50	0.50	ug/L	20.0	102	85-115
Cobalt	20.1	0.10	0.10	ug/L	20.0	100	85-115
Copper	19.6	0.40	0.50	ug/L	20.0	98.2	85-115
Iron	512	10	50	ug/L	520	98.4	85-115
Lead	19.9	0.060	0.25	ug/L	20.0	99.7	85-115
Manganese	19.3	2.0	5.0	ug/L	20.0	96.3	85-115
Molybdenum	20.2	0.070	0.25	ug/L	20.0	101	85-115
Nickel	20.2	0.30	0.50	ug/L	20.0	101	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 AI93977 - EPA 200.8

LCS (AI93977-BS1)

Prepared: 09/20/19 Analyzed: 09/23/19

Selenium	20.5	0.30	2.0	ug/L	20.0		103	85-115			
Silver	19.7	0.050	0.10	ug/L	20.0		98.5	85-115			
Thallium	19.7	0.050	0.10	ug/L	20.0		98.6	85-115			
Vanadium	20.6	0.50	1.0	ug/L	20.0		103	85-115			
Zinc	100	4.0	5.0	ug/L	100		100	85-115			

Duplicate (AI93977-DUP1)

Source: 19I2386-01

Prepared: 09/20/19 Analyzed: 09/23/19

Aluminum	20.5	20	40	ug/L		21.0			2.26	20	R-01, J
Antimony	ND	0.80	2.0	ug/L		ND				20	R-01, U
Arsenic	4.18	1.6	2.0	ug/L		4.46			6.44	20	
Barium	34.9	0.80	2.0	ug/L		35.0			0.341	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	ND	1.6	2.0	ug/L		ND				20	R-01, U
Iron	53.8	40	200	ug/L		63.3			16.2	20	R-01, J
Lead	ND	0.24	1.0	ug/L		ND				20	R-01, U
Manganese	ND	8.0	20	ug/L		ND				20	R-01, U
Molybdenum	0.601	0.28	1.0	ug/L		0.613			1.87	20	R-01, J
Nickel	ND	1.2	2.0	ug/L		ND				20	R-01, U
Selenium	1.86	1.2	8.0	ug/L		1.42			26.5	20	R-01, J
Silver	0.237	0.20	0.40	ug/L		ND			200	20	R-01, J
Thallium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Vanadium	10.1	2.0	4.0	ug/L		9.62			4.67	20	
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- 32oz. WM HDPE Project Number: Lot Number L9252CUCS	Reported: 10/02/19 10:51
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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 AI93977 - EPA 200.8

Matrix Spike (AI93977-MS1)		Source: 1912386-01			Prepared: 09/20/19		Analyzed: 09/23/19		
Aluminum	539	20	40	ug/L	520	21.0	99.6	70-130	
Antimony	20.7	0.80	2.0	ug/L	20.0	ND	103	70-130	
Arsenic	26.8	1.6	2.0	ug/L	20.0	4.46	112	70-130	
Barium	55.2	0.80	2.0	ug/L	20.0	35.0	101	70-130	
Beryllium	20.0	0.20	0.40	ug/L	20.0	ND	100	70-130	
Boron	146	80	200	ug/L	100	ND	146	70-130	R-01, J
Cadmium	19.9	0.24	0.40	ug/L	20.0	ND	99.6	70-130	
Chromium	20.8	2.0	2.0	ug/L	20.0	ND	104	70-130	
Cobalt	19.7	0.40	0.40	ug/L	20.0	ND	98.5	70-130	
Copper	20.1	1.6	2.0	ug/L	20.0	ND	101	70-130	
Iron	565	40	200	ug/L	520	63.3	96.5	70-130	
Lead	19.7	0.24	1.0	ug/L	20.0	ND	98.7	70-130	
Manganese	19.3	8.0	20	ug/L	20.0	ND	96.4	70-130	R-01, J
Molybdenum	20.7	0.28	1.0	ug/L	20.0	0.613	100	70-130	
Nickel	20.4	1.2	2.0	ug/L	20.0	ND	102	70-130	
Selenium	22.1	1.2	8.0	ug/L	20.0	1.42	103	70-130	
Silver	19.9	0.20	0.40	ug/L	20.0	ND	99.6	70-130	
Thallium	19.6	0.20	0.40	ug/L	20.0	ND	97.9	70-130	
Vanadium	30.0	2.0	4.0	ug/L	20.0	9.62	102	70-130	
Zinc	99.9	16	20	ug/L	100	ND	99.9	70-130	

Matrix Spike (AI93977-MS2)		Source: 1912386-03			Prepared: 09/20/19		Analyzed: 09/23/19		
Aluminum	543	20	40	ug/L	520	ND	104	70-130	
Antimony	20.7	0.80	2.0	ug/L	20.0	ND	103	70-130	
Arsenic	27.7	1.6	2.0	ug/L	20.0	4.89	114	70-130	
Barium	93.4	0.80	2.0	ug/L	20.0	73.6	98.7	70-130	
Beryllium	20.2	0.20	0.40	ug/L	20.0	ND	101	70-130	
Boron	170	80	200	ug/L	100	ND	170	70-130	QM-01, R-01, J
Cadmium	20.4	0.24	0.40	ug/L	20.0	ND	102	70-130	
Chromium	21.1	2.0	2.0	ug/L	20.0	ND	105	70-130	
Cobalt	19.8	0.40	0.40	ug/L	20.0	ND	99.1	70-130	
Copper	20.9	1.6	2.0	ug/L	20.0	ND	105	70-130	
Iron	598	40	200	ug/L	520	95.0	96.8	70-130	
Lead	19.7	0.24	1.0	ug/L	20.0	ND	98.3	70-130	
Manganese	23.6	8.0	20	ug/L	20.0	ND	118	70-130	
Molybdenum	21.9	0.28	1.0	ug/L	20.0	1.51	102	70-130	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 32oz. WM HDPE Project Number: Lot Number L9252CUCS	Reported: 10/02/19 10:51
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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 AI93977 - EPA 200.8

Matrix Spike (AI93977-MS2)		Source: 1912386-03			Prepared: 09/20/19		Analyzed: 09/23/19	
Nickel	20.5	1.2	2.0	ug/L	20.0	ND	103	70-130
Selenium	22.5	1.2	8.0	ug/L	20.0	1.63	104	70-130
Silver	19.4	0.20	0.40	ug/L	20.0	ND	97.2	70-130
Thallium	19.6	0.20	0.40	ug/L	20.0	ND	98.1	70-130
Vanadium	29.5	2.0	4.0	ug/L	20.0	9.35	101	70-130
Zinc	100	16	20	ug/L	100	ND	100	70-130

Matrix Spike Dup (AI93977-MSD1)		Source: 1912386-01			Prepared: 09/20/19		Analyzed: 09/23/19				
Aluminum	546	20	40	ug/L	520	21.0	101	70-130	1.37	20	
Antimony	20.8	0.80	2.0	ug/L	20.0	ND	104	70-130	0.788	20	
Arsenic	26.3	1.6	2.0	ug/L	20.0	4.46	109	70-130	1.57	20	
Barium	55.9	0.80	2.0	ug/L	20.0	35.0	104	70-130	1.28	20	
Beryllium	19.9	0.20	0.40	ug/L	20.0	ND	99.7	70-130	0.497	20	
Boron	145	80	200	ug/L	100	ND	145	70-130	0.913	20	QM-01, R-01, J
Cadmium	20.3	0.24	0.40	ug/L	20.0	ND	101	70-130	1.87	20	
Chromium	21.2	2.0	2.0	ug/L	20.0	ND	106	70-130	2.02	20	
Cobalt	20.0	0.40	0.40	ug/L	20.0	ND	100	70-130	1.50	20	
Copper	20.4	1.6	2.0	ug/L	20.0	ND	102	70-130	1.19	20	
Iron	564	40	200	ug/L	520	63.3	96.4	70-130	0.148	20	
Lead	20.0	0.24	1.0	ug/L	20.0	ND	99.8	70-130	1.13	20	
Manganese	19.5	8.0	20	ug/L	20.0	ND	97.4	70-130	1.05	20	R-01, J
Molybdenum	21.1	0.28	1.0	ug/L	20.0	0.613	103	70-130	2.04	20	
Nickel	20.6	1.2	2.0	ug/L	20.0	ND	103	70-130	1.16	20	
Selenium	22.4	1.2	8.0	ug/L	20.0	1.42	105	70-130	1.21	20	
Silver	19.8	0.20	0.40	ug/L	20.0	ND	99.1	70-130	0.499	20	
Thallium	20.0	0.20	0.40	ug/L	20.0	ND	99.9	70-130	2.01	20	
Vanadium	30.5	2.0	4.0	ug/L	20.0	9.62	104	70-130	1.68	20	
Zinc	101	16	20	ug/L	100	ND	101	70-130	0.906	20	

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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 AI94079 - EPA 300.0

Blank (AI94079-BLK1)		Prepared & Analyzed: 09/23/19									
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	0.070	0.10	mg/L							U

LCS (AI94079-BS1)		Prepared & Analyzed: 09/23/19									
Fluoride	5.62	0.070	0.10	mg/L	5.56		101	90-110			
Nitrate as NO3	24	0.20	1.0	mg/L	24.7		96.3	90-110			
Sulfate as SO4	21.7	0.20	0.50	mg/L	22.2		97.5	90-110			
Nitrite as NO2	18.6	0.20	1.0	mg/L	18.2		102	90-110			

Duplicate (AI94079-DUP1)		Source: 19I2626-01		Prepared & Analyzed: 09/23/19							
Nitrate as NO3	0.78	0.20	1.0	mg/L	0.78				0.386	20	J
Sulfate as SO4	8.80	0.20	0.50	mg/L	8.78				0.250	20	
Fluoride	0.0960	0.070	0.10	mg/L	0.0960				0.00	20	J
Nitrite as NO2	ND	0.20	1.0	mg/L	ND					20	U

Matrix Spike (AI94079-MS1)		Source: 19I2626-01		Prepared & Analyzed: 09/23/19							
Nitrate as NO3	26	0.20	1.0	mg/L	24.7	0.78	104	80-120			
Sulfate as SO4	31.0	0.20	0.50	mg/L	22.2	8.78	100	80-120			
Nitrite as NO2	17.7	0.20	1.0	mg/L	18.2	ND	97.3	80-120			
Fluoride	5.75	0.070	0.10	mg/L	5.56	0.0960	102	80-120			

Matrix Spike Dup (AI94079-MSD1)		Source: 19I2626-01		Prepared & Analyzed: 09/23/19							
Fluoride	5.73	0.070	0.10	mg/L	5.56	0.0960	101	80-120	0.368	20	
Nitrate as NO3	26	0.20	1.0	mg/L	24.7	0.78	103	80-120	0.410	20	
Nitrite as NO2	17.7	0.20	1.0	mg/L	18.2	ND	97.2	80-120	0.124	20	
Sulfate as SO4	30.9	0.20	0.50	mg/L	22.2	8.78	99.7	80-120	0.294	20	

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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 32oz. WM HDPE
Project Number: Lot Number L9252CUCS

Reported:
10/02/19 10:51

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. 19T1903 Page of

Report to:		Invoice to (if different):		Project Info for Report:				Signature below authorizes work under terms stated on reverse side.															
Company: Sample Traps LLC		Company:		Project ID:) QC- 32oz WM HDPE				Analyses Requested						TAT 10 days <input checked="" type="radio"/> 5 days <input type="radio"/> 48 hours <input type="radio"/> Other: <input type="radio"/> days		Sample Notes (lab use only) Temperature: <u> </u> deg. C Shipment Method: Custody Seals: Y / N							
Attn: Quality Control Manager		Attn:		Project No: Lot number L9252CUCS																			
Address:		Address:		PO/Reference :				Total Number of Containers Sample Traps Inorganics include MDL j-flags															
Phone/Fax:		Phone/Fax:		Email Address: admin@sampletraps.com																			
Samplers Signature: Print: N/A		Container:		Preservative:				Matrix:				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 Notes or CDPH Source Numbers:	
L9252CUCS		x x		x												x		x		3		Aaron/Triple Dot corporation Lot# 073Q2019	
Relinquished by:		Received by:		Date:		Time:		CDPH Write On EDT Transmission? <input type="radio"/> Yes <input type="radio"/> No															
Per BAL		<i>[Signature]</i>		9-16-19		8890		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: _____															