



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

16 February 2021

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 32oz. WM HDPE

Work Order: 21A3087

Enclosed are the results of analyses for samples received by the laboratory on 01/26/21 10:00. 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- 32oz. WM HDPE
Project Number: Lot Number L1022CUCS

Reported:
02/16/21 09:51

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: 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
L1022CUCS	21A3087-01	Water	01/26/21 00:00	01/26/21 10:00



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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 L1022CUCS

Reported:
 02/16/21 09:51

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
L1022CUCS (21A3087-01) Water Sampled: 01/26/21 00:00 Received: 01/26/21 10:00												
Calcium	ND	0.080	1.0	mg/L	1	AA14817	01/29/21 07:00	02/04/21 16:03	EPA 200.7	MAM	1551	U
Magnesium	ND	0.030	1.0	mg/L	1	AA14817	01/29/21 07:00	02/04/21 16:03	EPA 200.7	MAM	1551	U
Potassium	ND	0.090	1.0	mg/L	1	AA14817	01/29/21 07:00	02/04/21 16:03	EPA 200.7	MAM	1551	U
Sodium	ND	0.40	1.0	mg/L	1	AA14817	01/29/21 07:00	02/05/21 14:25	EPA 200.7	MAM	1551	U



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 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 32oz. WM HDPE
 Project Number: Lot Number L1022CUCS

Reported:
 02/16/21 09:51

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
L1022CUCS (21A3087-01) Water Sampled: 01/26/21 00:00 Received: 01/26/21 10:00												
Mercury	ND	0.020	0.020	ug/L	1	AB12936	02/02/21 06:23	02/02/21 13:10	EPA 245.1	LMR	1551	U
Tin	ND	0.020	0.050	mg/L	1	AA14817	01/29/21 07:00	02/04/21 16:03	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- 32oz. WM HDPE
 Project Number: Lot Number L1022CUCS

Reported:
 02/16/21 09:51

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
L1022CUCS (21A3087-01) Water Sampled: 01/26/21 00:00 Received: 01/26/21 10:00												
Aluminum	ND	5.0	10	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Antimony	ND	0.20	0.50	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Arsenic	ND	0.40	0.50	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Barium	ND	0.20	0.50	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Beryllium	ND	0.050	0.10	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Boron	ND	8.0	50	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Cadmium	ND	0.060	0.10	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Chromium	ND	0.50	0.50	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Cobalt	ND	0.10	0.10	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Copper	ND	0.40	0.50	ug/L	1	AA14710	01/27/21 14:00	01/29/21 15:20	EPA 200.8	CK	1551	U
Iron	ND	10	50	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Lead	ND	0.060	0.25	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Manganese	ND	2.0	5.0	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Molybdenum	ND	0.070	0.25	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Nickel	ND	0.30	0.50	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Selenium	ND	0.30	2.0	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Silver	ND	0.050	0.10	ug/L	1	AA14710	01/27/21 14:00	02/01/21 11:27	EPA 200.8	CK	1551	U
Thallium	ND	0.050	0.10	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Vanadium	ND	0.50	1.0	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	U
Zinc	ND	4.0	5.0	ug/L	1	AA14710	01/27/21 14:00	01/28/21 12:40	EPA 200.8	CK	1551	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 L1022CUCS

Reported:
 02/16/21 09:51

Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
L1022CUCS (21A3087-01) Water Sampled: 01/26/21 00:00 Received: 01/26/21 10:00												
Fluoride	ND	0.020	0.10	mg/L	1	AB13860	02/10/21 11:04	02/10/21 11:04	EPA 300.0	SMS	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AB13860	02/10/21 11:04	02/10/21 11:04	EPA 300.0	SMS	1551	T-03, U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AB13860	02/10/21 11:04	02/10/21 11:04	EPA 300.0	SMS	1551	T-03, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AB13860	02/10/21 11:04	02/10/21 11:04	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- 32oz. WM HDPE Project Number: Lot Number L1022CUCS	Reported: 02/16/21 09:51
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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 AA14817 - Metals Digest

Blank (AA14817-BLK1)											
						Prepared: 01/29/21 Analyzed: 02/04/21					
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 (AA14817-BS1)											
						Prepared: 01/29/21 Analyzed: 02/04/21					
Calcium	7.63	0.080	1.0	mg/L	8.00		95.4	85-115			
Magnesium	7.44	0.030	1.0	mg/L	8.00		93.0	85-115			
Potassium	8.03	0.090	1.0	mg/L	8.00		100	85-115			
Sodium	7.62	0.40	1.0	mg/L	8.00		95.3	85-115			

Duplicate (AA14817-DUP1)											
			Source: 21A3087-01			Prepared: 01/29/21 Analyzed: 02/04/21					
Calcium	ND	0.080	1.0	mg/L		ND				20	U
Magnesium	ND	0.030	1.0	mg/L		ND				20	U
Potassium	ND	0.090	1.0	mg/L		ND				20	U
Sodium	ND	0.40	1.0	mg/L		ND				20	U

MRL Check (AA14817-MRL1)											
						Prepared: 01/29/21 Analyzed: 02/05/21					
Sodium	ND	0.40	1.0	mg/L	0.100				0-200		U

Matrix Spike (AA14817-MS1)											
			Source: 21A3087-01			Prepared: 01/29/21 Analyzed: 02/04/21					
Calcium	7.54	0.080	1.0	mg/L	8.00	ND	94.2	70-130			
Magnesium	7.52	0.030	1.0	mg/L	8.00	ND	94.0	70-130			
Potassium	7.97	0.090	1.0	mg/L	8.00	ND	99.6	70-130			
Sodium	7.47	0.40	1.0	mg/L	8.00	ND	93.3	70-130			

Matrix Spike (AA14817-MS2)											
			Source: 21A3268-01			Prepared: 01/29/21 Analyzed: 02/04/21					
Calcium	10.1	0.080	1.0	mg/L	8.00	2.54	93.9	70-130			
Magnesium	8.16	0.030	1.0	mg/L	8.00	0.636	94.1	70-130			
Potassium	22.3	0.090	1.0	mg/L	8.00	14.9	91.9	70-130			
Sodium	146	0.40	1.0	mg/L	8.00	144	25.8	70-130			QM-4X

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 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 32oz. WM HDPE
 Project Number: Lot Number L1022CUCS

Reported:
 02/16/21 09:51

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 AA14817 - Metals Digest

Matrix Spike Dup (AA14817-MSD1)

Source: 21A3087-01

Prepared: 01/29/21 Analyzed: 02/04/21

Calcium	7.61	0.080	1.0	mg/L	8.00	ND	95.1	70-130	0.882	20	
Magnesium	7.53	0.030	1.0	mg/L	8.00	ND	94.2	70-130	0.143	20	
Potassium	8.05	0.090	1.0	mg/L	8.00	ND	101	70-130	1.09	20	
Sodium	7.36	0.40	1.0	mg/L	8.00	ND	92.0	70-130	1.43	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 L1022CUCS	Reported: 02/16/21 09:51
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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 AA14817 - Metals Digest

Blank (AA14817-BLK1)					Prepared: 01/29/21 Analyzed: 02/04/21						
Tin	ND	0.020	0.050	mg/L							U
LCS (AA14817-BS1)					Prepared: 01/29/21 Analyzed: 02/04/21						
Tin	0.176	0.020	0.050	mg/L	0.200		87.8	85-115			
Duplicate (AA14817-DUP1)					Source: 21A3087-01 Prepared: 01/29/21 Analyzed: 02/04/21						
Tin	ND	0.020	0.050	mg/L		ND				20	U
Matrix Spike (AA14817-MS1)					Source: 21A3087-01 Prepared: 01/29/21 Analyzed: 02/04/21						
Tin	0.176	0.020	0.050	mg/L	0.200	ND	87.8	70-130			
Matrix Spike (AA14817-MS2)					Source: 21A3268-01 Prepared: 01/29/21 Analyzed: 02/04/21						
Tin	0.188	0.020	0.050	mg/L	0.200	ND	94.1	70-130			
Matrix Spike Dup (AA14817-MSD1)					Source: 21A3087-01 Prepared: 01/29/21 Analyzed: 02/04/21						
Tin	0.177	0.020	0.050	mg/L	0.200	ND	88.7	70-130	1.07	20	

Batch AB12936 - EPA 245.1 Hg Water

Blank (AB12936-BLK1)					Prepared & Analyzed: 02/02/21						
Mercury	ND	0.020	0.020	ug/L							U
LCS (AB12936-BS1)					Prepared & Analyzed: 02/02/21						
Mercury	0.268	0.020	0.020	ug/L	0.250		107	85-115			
Duplicate (AB12936-DUP1)					Source: 21A3087-01 Prepared & Analyzed: 02/02/21						
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 AB12936 - EPA 245.1 Hg Water

Matrix Spike (AB12936-MS1)		Source: 21A3087-01			Prepared & Analyzed: 02/02/21						
Mercury	0.260	0.020	0.020	ug/L	0.250	ND	104	70-130			
Matrix Spike (AB12936-MS2)		Source: 21A3293-03			Prepared & Analyzed: 02/02/21						
Mercury	0.256	0.020	0.020	ug/L	0.250	ND	102	70-130			
Matrix Spike Dup (AB12936-MSD1)		Source: 21A3087-01			Prepared & Analyzed: 02/02/21						
Mercury	0.262	0.020	0.020	ug/L	0.250	ND	105	70-130	0.766	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 AA14710 - EPA 200.8

Blank (AA14710-BLK1)

Prepared: 01/27/21 Analyzed: 01/28/21

Aluminum	ND	5.0	10	ug/L							U
Antimony	ND	0.20	0.50	ug/L							U
Arsenic	ND	0.40	0.50	ug/L							U
Barium	ND	0.20	0.50	ug/L							U
Beryllium	ND	0.050	0.10	ug/L							U
Boron	ND	8.0	50	ug/L							U
Cadmium	ND	0.060	0.10	ug/L							U
Chromium	ND	0.50	0.50	ug/L							U
Cobalt	ND	0.10	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 (AA14710-BS1)

Prepared: 01/27/21 Analyzed: 01/28/21

Aluminum	500	5.0	10	ug/L	520		96.1	85-115			
Antimony	20.4	0.20	0.50	ug/L	20.0		102	85-115			
Arsenic	20.8	0.40	0.50	ug/L	20.0		104	85-115			
Barium	20.4	0.20	0.50	ug/L	20.0		102	85-115			
Beryllium	20.6	0.050	0.10	ug/L	20.0		103	85-115			
Boron	95.5	8.0	50	ug/L	100		95.5	85-115			
Cadmium	20.1	0.060	0.10	ug/L	20.0		101	85-115			
Chromium	20.2	0.50	0.50	ug/L	20.0		101	85-115			
Cobalt	20.2	0.10	0.10	ug/L	20.0		101	85-115			
Copper	21.7	0.40	0.50	ug/L	20.0		109	85-115			
Iron	529	10	50	ug/L	520		102	85-115			
Lead	19.9	0.060	0.25	ug/L	20.0		99.4	85-115			
Manganese	20.9	2.0	5.0	ug/L	20.0		104	85-115			
Molybdenum	20.0	0.070	0.25	ug/L	20.0		99.8	85-115			
Nickel	20.3	0.30	0.50	ug/L	20.0		102	85-115			

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Project Manager: Quality Control Manager
 Project: QC- 32oz. WM HDPE
 Project Number: Lot Number L1022CUCS

Reported:
 02/16/21 09:51

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 AA14710 - EPA 200.8

LCS (AA14710-BS1)

Prepared: 01/27/21 Analyzed: 01/29/21

Selenium	21.1	0.30	2.0	ug/L	20.0		106	85-115			
Silver	19.2	0.050	0.10	ug/L	20.0		95.9	85-115			
Thallium	19.8	0.050	0.10	ug/L	20.0		98.8	85-115			
Vanadium	20.2	0.50	1.0	ug/L	20.0		101	85-115			
Zinc	105	4.0	5.0	ug/L	100		105	85-115			

Duplicate (AA14710-DUP1)

Source: 21A3087-01

Prepared: 01/27/21 Analyzed: 01/28/21

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	8.0	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	ND	0.050	0.10	ug/L		ND			20		U
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- 32oz. WM HDPE
 Project Number: Lot Number L1022CUCS

Reported:
 02/16/21 09:51

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 AA14710 - EPA 200.8

Matrix Spike (AA14710-MS1)

Source: 21A3087-01

Prepared: 01/27/21 Analyzed: 01/28/21

Aluminum	533	5.0	10	ug/L	520	ND	103	70-130			
Antimony	21.6	0.20	0.50	ug/L	20.0	ND	108	70-130			
Arsenic	22.1	0.40	0.50	ug/L	20.0	ND	110	70-130			
Barium	21.7	0.20	0.50	ug/L	20.0	ND	109	70-130			
Beryllium	22.0	0.050	0.10	ug/L	20.0	ND	110	70-130			
Boron	103	8.0	50	ug/L	100	ND	103	70-130			
Cadmium	21.3	0.060	0.10	ug/L	20.0	ND	106	70-130			
Chromium	21.4	0.50	0.50	ug/L	20.0	ND	107	70-130			
Cobalt	20.8	0.10	0.10	ug/L	20.0	ND	104	70-130			
Copper	22.4	0.40	0.50	ug/L	20.0	ND	112	70-130			
Iron	568	10	50	ug/L	520	ND	109	70-130			
Lead	21.4	0.060	0.25	ug/L	20.0	ND	107	70-130			
Manganese	21.9	2.0	5.0	ug/L	20.0	ND	110	70-130			
Molybdenum	21.0	0.070	0.25	ug/L	20.0	ND	105	70-130			
Nickel	21.1	0.30	0.50	ug/L	20.0	ND	106	70-130			
Selenium	21.7	0.30	2.0	ug/L	20.0	ND	108	70-130			
Silver	20.8	0.050	0.10	ug/L	20.0	ND	104	70-130			
Thallium	21.3	0.050	0.10	ug/L	20.0	ND	107	70-130			
Vanadium	21.3	0.50	1.0	ug/L	20.0	ND	107	70-130			
Zinc	111	4.0	5.0	ug/L	100	ND	111	70-130			

Matrix Spike (AA14710-MS2)

Source: 21A3080-01

Prepared: 01/27/21 Analyzed: 01/28/21

Aluminum	1640	20	40	ug/L	520	984	126	70-130			
Antimony	20.5	0.80	2.0	ug/L	20.0	ND	103	70-130			
Arsenic	22.8	1.6	2.0	ug/L	20.0	ND	114	70-130			
Barium	71.0	0.80	2.0	ug/L	20.0	51.4	97.6	70-130			
Beryllium	21.5	0.20	0.40	ug/L	20.0	ND	108	70-130			
Boron	147	32	200	ug/L	100	44.5	102	70-130			
Cadmium	20.5	0.24	0.40	ug/L	20.0	ND	103	70-130			
Chromium	21.3	2.0	2.0	ug/L	20.0	ND	106	70-130			
Cobalt	19.4	0.40	0.40	ug/L	20.0	ND	96.8	70-130			
Copper	39.5	1.6	2.0	ug/L	20.0	16.7	114	70-130			
Iron	1180	40	200	ug/L	520	624	107	70-130			
Lead	22.3	0.24	1.0	ug/L	20.0	1.17	106	70-130			
Manganese	23.6	8.0	20	ug/L	20.0	ND	118	70-130			
Molybdenum	19.5	0.28	1.0	ug/L	20.0	ND	97.7	70-130			
Nickel	20.7	1.2	2.0	ug/L	20.0	1.40	96.4	70-130			

R-01, J

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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 L1022CUCS

Reported:
 02/16/21 09:51

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 AA14710 - EPA 200.8

Matrix Spike (AA14710-MS2)

Source: 21A3080-01

Prepared: 01/27/21 Analyzed: 01/29/21

Selenium	23.7	1.2	2.0	ug/L	20.0	ND	118	70-130			
Silver	20.8	0.20	0.40	ug/L	20.0	ND	104	70-130			
Thallium	20.9	0.20	0.40	ug/L	20.0	ND	104	70-130			
Vanadium	21.5	2.0	4.0	ug/L	20.0	ND	107	70-130			
Zinc	129	16	20	ug/L	100	19.3	109	70-130			

Matrix Spike Dup (AA14710-MSD1)

Source: 21A3087-01

Prepared: 01/27/21 Analyzed: 01/28/21

Aluminum	505	5.0	10	ug/L	520	ND	97.1	70-130	5.40	20	
Antimony	20.5	0.20	0.50	ug/L	20.0	ND	103	70-130	5.14	20	
Arsenic	21.1	0.40	0.50	ug/L	20.0	ND	105	70-130	4.74	20	
Barium	20.4	0.20	0.50	ug/L	20.0	ND	102	70-130	6.05	20	
Beryllium	20.9	0.050	0.10	ug/L	20.0	ND	105	70-130	5.20	20	
Boron	99.9	8.0	50	ug/L	100	ND	99.9	70-130	2.76	20	
Cadmium	20.2	0.060	0.10	ug/L	20.0	ND	101	70-130	5.00	20	
Chromium	20.1	0.50	0.50	ug/L	20.0	ND	100	70-130	6.59	20	
Cobalt	20.1	0.10	0.10	ug/L	20.0	ND	100	70-130	3.67	20	
Copper	21.6	0.40	0.50	ug/L	20.0	ND	108	70-130	3.39	20	
Iron	539	10	50	ug/L	520	ND	104	70-130	5.30	20	
Lead	20.3	0.060	0.25	ug/L	20.0	ND	102	70-130	5.25	20	
Manganese	20.8	2.0	5.0	ug/L	20.0	ND	104	70-130	5.14	20	
Molybdenum	20.0	0.070	0.25	ug/L	20.0	ND	99.9	70-130	5.01	20	
Nickel	19.8	0.30	0.50	ug/L	20.0	ND	99.2	70-130	6.35	20	
Selenium	20.9	0.30	2.0	ug/L	20.0	ND	104	70-130	3.92	20	
Silver	19.6	0.050	0.10	ug/L	20.0	ND	98.1	70-130	5.66	20	
Thallium	20.2	0.050	0.10	ug/L	20.0	ND	101	70-130	5.70	20	
Vanadium	20.4	0.50	1.0	ug/L	20.0	ND	102	70-130	4.43	20	
Zinc	106	4.0	5.0	ug/L	100	ND	106	70-130	4.33	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 L1022CUCS	Reported: 02/16/21 09:51
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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 AB13860 - EPA 300.0

Blank (AB13860-BLK1)											
											Prepared & Analyzed: 02/10/21
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 (AB13860-BS1)											
											Prepared & Analyzed: 02/10/21
Nitrate as NO3	24	0.20	1.0	mg/L	24.7		98.3	90-110			
Sulfate as SO4	22.1	0.20	0.50	mg/L	22.2		99.3	90-110			
Fluoride	5.42	0.020	0.10	mg/L	5.56		97.5	90-110			
Nitrite as NO2	17.5	0.20	1.0	mg/L	18.2		96.0	90-110			

Duplicate (AB13860-DUP1)											
											Source: 21B1835-01
											Prepared & Analyzed: 02/10/21
Fluoride	0.192	0.020	0.10	mg/L		0.192			0.00	20	
Nitrate as NO3	ND	0.20	1.0	mg/L		ND				20	U
Sulfate as SO4	31.5	0.20	0.50	mg/L		31.5			0.0952	20	
Nitrite as NO2	ND	0.20	1.0	mg/L		ND				20	U

Matrix Spike (AB13860-MS1)											
											Source: 21B1835-01
											Prepared & Analyzed: 02/10/21
Nitrate as NO3	22	2.0	10	mg/L	24.7	ND	89.7	80-120			
Fluoride	4.78	0.20	1.0	mg/L	5.56	ND	86.0	80-120			
Sulfate as SO4	51.6	2.0	5.0	mg/L	22.2	31.5	90.3	80-120			
Nitrite as NO2	15.4	2.0	10	mg/L	18.2	ND	84.5	80-120			

Matrix Spike (AB13860-MS2)											
											Source: 21B1867-01
											Prepared & Analyzed: 02/11/21
Fluoride	5.57	0.20	1.0	mg/L	5.56	0.827	85.3	80-120			
Nitrate as NO3	24	2.0	10	mg/L	24.7	ND	97.7	80-120			
Sulfate as SO4	95.1	2.0	5.0	mg/L	22.2	73.4	97.5	80-120			
Nitrite as NO2	15.0	2.0	10	mg/L	18.2	ND	82.3	80-120			

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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 L1022CUCS

Reported:
 02/16/21 09:51

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 AB13860 - EPA 300.0

Matrix Spike Dup (AB13860-MSD1)

Source: 21B1835-01

Prepared & Analyzed: 02/10/21

Nitrate as NO3	22	2.0	10	mg/L	24.7	ND	88.6	80-120	1.26	20	
Fluoride	4.78	0.20	1.0	mg/L	5.56	ND	86.0	80-120	0.00	20	
Sulfate as SO4	51.1	2.0	5.0	mg/L	22.2	31.5	88.2	80-120	0.908	20	
Nitrite as NO2	15.0	2.0	10	mg/L	18.2	ND	82.0	80-120	2.89	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 L1022CUCS

Reported:
02/16/21 09:51

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- 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-03 Client did not specify sampling time.
- 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

