



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

11 September 2023

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 32oz. WM HDPE

Work Order: 23H3712

Enclosed are the results of analyses for samples received by the laboratory on 08/21/23 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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- 32oz. WM HDPE
Project Number: Lot Number L3220CUCS

Reported:
09/11/23 14:12

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L3220CUCS	23H3712-01	Water	08/24/23 00:00	08/21/23 12:00



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
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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 L3220CUCS

Reported:
 09/11/23 14:12

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit	Units								
L3220CUCS (23H3712-01) Water												P-02
Sampled: 08/24/23 00:00												Received: 08/21/23 12:00
Calcium	ND	0.080	1.0	mg/L	1	AH35031	08/29/23 14:43	08/30/23 16:09	EPA 200.7	BED	1551	U
Magnesium	ND	0.030	1.0	mg/L	1	AH35031	08/29/23 14:43	08/29/23 17:33	EPA 200.7	BED	1551	U
Potassium	ND	0.20	1.0	mg/L	1	AH35031	08/29/23 14:43	08/29/23 17:33	EPA 200.7	BED	1551	U
Sodium	ND	0.30	1.0	mg/L	1	AH35031	08/29/23 14:43	08/29/23 17:33	EPA 200.7	BED	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 L3220CUCS

Reported:
09/11/23 14:12

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
			Limit	Units								
L3220CUCS (23H3712-01) Water Sampled: 08/24/23 00:00 Received: 08/21/23 12:00												
Mercury	ND	0.020	0.020	ug/L	1	AH34969	08/29/23 05:45	08/29/23 14:16	EPA 245.1	LMR	1551	U
Tin	ND	0.0060	0.050	mg/L	1	AH35031	08/29/23 14:43	08/29/23 17:33	EPA 200.7	BED	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 L3220CUCS

Reported:
 09/11/23 14:12

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit										
L3220CUCS (23H3712-01) Water													P-02
Sampled: 08/24/23 00:00 Received: 08/21/23 12:00													
Aluminum	ND	5.0	10		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Antimony	ND	0.20	0.50		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Arsenic	0.76	0.40	0.50		ug/L	1	AI33217	09/05/23 11:26	09/08/23 19:43	EPA 200.8	SMP	1551	
Barium	ND	0.20	0.50		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Beryllium	ND	0.050	0.10		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Boron	ND	20	100		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Cadmium	ND	0.060	0.10		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Chromium	ND	0.50	0.50		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Cobalt	ND	0.040	0.10		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Copper	ND	0.40	0.50		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Iron	ND	10	50		ug/L	1	AI33217	09/05/23 11:26	09/08/23 19:43	EPA 200.8	SMP	1551	U
Lead	ND	0.060	0.25		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Manganese	ND	2.0	5.0		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Molybdenum	ND	0.070	0.25		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Nickel	ND	0.30	0.50		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Selenium	ND	0.30	2.0		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Silver	ND	0.20	0.20		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Thallium	ND	0.050	0.10		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	U
Vanadium	0.54	0.50	1.0		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	1551	J
Zinc	ND	2.0	5.0		ug/L	1	AI33217	09/05/23 11:26	09/05/23 21:38	EPA 200.8	SMP	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 L3220CUCS

Reported:
09/11/23 14:12

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit	Units								
L3220CUCS (23H3712-01) Water Sampled: 08/24/23 00:00 Received: 08/21/23 12:00												
Total Organic Carbon	ND		0.300	mg/L	1	AH34808	08/25/23 14:56	08/25/23 22:28	SM5310C	JJ	1551	



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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 L3220CUCS

Reported:
 09/11/23 14:12

Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit	Units								
L3220CUCS (23H3712-01) Water Sampled: 08/24/23 00:00 Received: 08/21/23 12:00												
Fluoride	ND	0.020	0.10	mg/L	1	AH34895	08/28/23 12:04	08/28/23 12:04	EPA 300.0	SM	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AH34895	08/28/23 12:04	08/28/23 12:04	EPA 300.0	SM	1551	T-02, U
Nitrite as NO2	ND	0.070	1.0	mg/L	1	AH34895	08/28/23 12:04	08/28/23 12:04	EPA 300.0	SM	1551	T-02, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AH34895	08/28/23 12:04	08/28/23 12:04	EPA 300.0	SM	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 L3220CUCS	Reported: 09/11/23 14:12
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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 AH35031 - Metals Digest

Blank (AH35031-BLK1)											Prepared & Analyzed: 08/29/23	
Calcium	ND	0.080	1.0	mg/L							U	
Magnesium	ND	0.030	1.0	mg/L							U	
Potassium	ND	0.20	1.0	mg/L							U	
Sodium	ND	0.30	1.0	mg/L							U	

LCS (AH35031-BS1)											Prepared & Analyzed: 08/29/23	
Calcium	2.45	0.080	1.0	mg/L	2.51		97.6	85-115				
Magnesium	8.22	0.030	1.0	mg/L	8.00		103	85-115				
Potassium	7.89	0.20	1.0	mg/L	8.00		98.6	85-115				
Sodium	8.74	0.30	1.0	mg/L	8.00		109	85-115				

Duplicate (AH35031-DUP1)											Source: 23H3713-01		Prepared & Analyzed: 08/29/23	
Calcium	ND	0.080	1.0	mg/L		ND				20	U			
Magnesium	ND	0.030	1.0	mg/L		ND				20	U			
Potassium	ND	0.20	1.0	mg/L		ND				20	U			
Sodium	ND	0.30	1.0	mg/L		ND				20	U			

Matrix Spike (AH35031-MS1)											Source: 23H3713-01		Prepared & Analyzed: 08/29/23	
Calcium	2.45	0.080	1.0	mg/L	2.51	ND	97.8	70-130						
Magnesium	8.12	0.030	1.0	mg/L	8.00	ND	101	70-130						
Potassium	7.91	0.20	1.0	mg/L	8.00	ND	98.9	70-130						
Sodium	8.65	0.30	1.0	mg/L	8.00	ND	108	70-130						

Matrix Spike Dup (AH35031-MSD1)											Source: 23H3713-01		Prepared & Analyzed: 08/29/23	
Calcium	2.46	0.080	1.0	mg/L	2.51	ND	97.8	70-130	0.0824	20				
Magnesium	8.17	0.030	1.0	mg/L	8.00	ND	102	70-130	0.715	20				
Potassium	8.28	0.20	1.0	mg/L	8.00	ND	103	70-130	4.53	20				
Sodium	9.03	0.30	1.0	mg/L	8.00	ND	113	70-130	4.26	20				

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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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 L3220CUCS	Reported: 09/11/23 14:12
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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 AH34969 - Hg Digest

Blank (AH34969-BLK1)					Prepared & Analyzed: 08/29/23						
Mercury	ND	0.020	0.020	ug/L							U
LCS (AH34969-BS1)					Prepared & Analyzed: 08/29/23						
Mercury	0.254	0.020	0.020	ug/L	0.250		102	85-115			
Duplicate (AH34969-DUP1)					Source: 23H3701-01 Prepared & Analyzed: 08/29/23						
Mercury	ND	0.020	0.020	ug/L		ND				20	U
Matrix Spike (AH34969-MS1)					Source: 23H3701-01 Prepared & Analyzed: 08/29/23						
Mercury	0.254	0.020	0.020	ug/L	0.250	ND	102	70-130			
Matrix Spike (AH34969-MS2)					Source: 23H3704-01 Prepared & Analyzed: 08/29/23						
Mercury	0.255	0.020	0.020	ug/L	0.250	ND	102	70-130			
Matrix Spike Dup (AH34969-MSD1)					Source: 23H3701-01 Prepared & Analyzed: 08/29/23						
Mercury	0.252	0.020	0.020	ug/L	0.250	ND	101	70-130	0.791	20	

Batch AH35031 - Metals Digest

Blank (AH35031-BLK1)					Prepared & Analyzed: 08/29/23						
Tin	ND	0.0060	0.050	mg/L							U
LCS (AH35031-BS1)					Prepared & Analyzed: 08/29/23						
Tin	0.199	0.0060	0.050	mg/L	0.200		99.6	85-115			
Duplicate (AH35031-DUP1)					Source: 23H3713-01 Prepared & Analyzed: 08/29/23						
Tin	ND	0.0060	0.050	mg/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 AH35031 - Metals Digest

Matrix Spike (AH35031-MS1)		Source: 23H3713-01			Prepared & Analyzed: 08/29/23						
Tin	0.196	0.0060	0.050	mg/L	0.200	ND	97.8	70-130			
Matrix Spike Dup (AH35031-MSD1)		Source: 23H3713-01			Prepared & Analyzed: 08/29/23						
Tin	0.199	0.0060	0.050	mg/L	0.200	ND	99.7	70-130	1.90	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 AI33217 - EPA 200.8

Blank (AI33217-BLK1)

Prepared & Analyzed: 09/05/23

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	100	ug/L							U
Cadmium	ND	0.060	0.10	ug/L							U
Chromium	ND	0.50	0.50	ug/L							U
Cobalt	ND	0.040	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	0.20	0.20	ug/L							U
Thallium	ND	0.050	0.10	ug/L							U
Vanadium	ND	0.50	1.0	ug/L							U
Zinc	ND	2.0	5.0	ug/L							U

LCS (AI33217-BS1)

Prepared & Analyzed: 09/05/23

Aluminum	490	5.0	10	ug/L	520		94.3	85-115			
Antimony	19.6	0.20	0.50	ug/L	20.0		98.1	85-115			
Arsenic	21.4	0.40	0.50	ug/L	20.0		107	85-115			
Barium	19.6	0.20	0.50	ug/L	20.0		97.8	85-115			
Beryllium	19.7	0.050	0.10	ug/L	20.0		98.6	85-115			
Boron	96.3	20	100	ug/L	100		96.3	85-115			J
Cadmium	19.6	0.060	0.10	ug/L	20.0		98.1	85-115			
Chromium	19.6	0.50	0.50	ug/L	20.0		97.8	85-115			
Cobalt	19.6	0.040	0.10	ug/L	20.0		97.8	85-115			
Copper	19.0	0.40	0.50	ug/L	20.0		94.9	85-115			
Iron	494	10	50	ug/L	520		95.0	85-115			
Lead	19.5	0.060	0.25	ug/L	20.0		97.6	85-115			
Manganese	18.9	2.0	5.0	ug/L	20.0		94.6	85-115			
Molybdenum	19.7	0.070	0.25	ug/L	20.0		98.4	85-115			
Nickel	19.5	0.30	0.50	ug/L	20.0		97.4	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 AI33217 - EPA 200.8

LCS (AI33217-BS1)

Prepared & Analyzed: 09/05/23

Selenium	20.1	0.30	2.0	ug/L	20.0		101	85-115			
Silver	19.5	0.20	0.20	ug/L	20.0		97.7	85-115			
Thallium	19.5	0.050	0.10	ug/L	20.0		97.7	85-115			
Vanadium	20.1	0.50	1.0	ug/L	20.0		100	85-115			
Zinc	96.2	2.0	5.0	ug/L	100		96.2	85-115			

Duplicate (AI33217-DUP1)

Source: 23H3695-01

Prepared & Analyzed: 09/05/23

Aluminum	30.2	5.0	10	ug/L		30.2			0.104	20	
Antimony	ND	0.20	0.50	ug/L		ND				20	U
Arsenic	0.457	0.40	0.50	ug/L		0.427			6.79	20	J
Barium	32.4	0.20	0.50	ug/L		33.0			1.84	20	
Beryllium	ND	0.050	0.10	ug/L		ND				20	U
Boron	23.8	20	100	ug/L		23.8			0.0709	20	J
Cadmium	ND	0.060	0.10	ug/L		ND				20	U
Chromium	ND	0.50	0.50	ug/L		ND				20	U
Cobalt	ND	0.040	0.10	ug/L		ND				20	U
Copper	1.13	0.40	0.50	ug/L		1.16			2.76	20	
Iron	ND	10	50	ug/L		ND				20	U
Lead	0.217	0.060	0.25	ug/L		0.225			3.71	20	J
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	0.20	0.20	ug/L		ND				20	U
Thallium	ND	0.050	0.10	ug/L		ND				20	U
Vanadium	0.587	0.50	1.0	ug/L		0.570			3.04	20	J
Zinc	ND	2.0	5.0	ug/L		ND				20	U



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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 AI33217 - EPA 200.8

Matrix Spike (AI33217-MS1)	Source: 23H3695-01			Prepared & Analyzed: 09/05/23							
Aluminum	539	5.0	10	ug/L	520	30.2	97.8	70-130			
Antimony	19.5	0.20	0.50	ug/L	20.0	ND	97.6	70-130			
Arsenic	21.4	0.40	0.50	ug/L	20.0	0.427	105	70-130			
Barium	50.1	0.20	0.50	ug/L	20.0	33.0	85.8	70-130			
Beryllium	18.7	0.050	0.10	ug/L	20.0	ND	93.7	70-130			
Boron	117	20	100	ug/L	100	23.8	93.6	70-130			
Cadmium	19.3	0.060	0.10	ug/L	20.0	ND	96.6	70-130			
Chromium	19.0	0.50	0.50	ug/L	20.0	ND	94.8	70-130			
Cobalt	18.9	0.040	0.10	ug/L	20.0	ND	94.5	70-130			
Copper	19.9	0.40	0.50	ug/L	20.0	1.16	93.5	70-130			
Iron	478	10	50	ug/L	520	ND	91.9	70-130			
Lead	19.4	0.060	0.25	ug/L	20.0	0.225	96.0	70-130			
Manganese	18.4	2.0	5.0	ug/L	20.0	ND	91.8	70-130			
Molybdenum	19.5	0.070	0.25	ug/L	20.0	ND	97.5	70-130			
Nickel	19.0	0.30	0.50	ug/L	20.0	ND	95.2	70-130			
Selenium	20.1	0.30	2.0	ug/L	20.0	ND	100	70-130			
Silver	18.7	0.20	0.20	ug/L	20.0	ND	93.7	70-130			
Thallium	19.3	0.050	0.10	ug/L	20.0	ND	96.3	70-130			
Vanadium	20.0	0.50	1.0	ug/L	20.0	0.570	96.9	70-130			
Zinc	95.7	2.0	5.0	ug/L	100	ND	95.7	70-130			

Matrix Spike Dup (AI33217-MSD1)	Source: 23H3695-01			Prepared & Analyzed: 09/05/23							
Aluminum	576	5.0	10	ug/L	520	30.2	105	70-130	6.71	20	
Antimony	20.5	0.20	0.50	ug/L	20.0	ND	103	70-130	5.12	20	
Arsenic	21.0	0.40	0.50	ug/L	20.0	0.427	103	70-130	2.10	20	
Barium	53.1	0.20	0.50	ug/L	20.0	33.0	101	70-130	5.72	20	
Beryllium	19.8	0.050	0.10	ug/L	20.0	ND	99.1	70-130	5.57	20	
Boron	124	20	100	ug/L	100	23.8	101	70-130	5.78	20	
Cadmium	20.4	0.060	0.10	ug/L	20.0	ND	102	70-130	5.26	20	
Chromium	19.9	0.50	0.50	ug/L	20.0	ND	99.3	70-130	4.68	20	
Cobalt	19.9	0.040	0.10	ug/L	20.0	ND	99.3	70-130	4.93	20	
Copper	21.1	0.40	0.50	ug/L	20.0	1.16	99.8	70-130	6.17	20	
Iron	504	10	50	ug/L	520	ND	97.0	70-130	5.39	20	
Lead	20.5	0.060	0.25	ug/L	20.0	0.225	101	70-130	5.37	20	
Manganese	19.2	2.0	5.0	ug/L	20.0	ND	96.0	70-130	4.47	20	
Molybdenum	20.5	0.070	0.25	ug/L	20.0	ND	103	70-130	5.20	20	
Nickel	20.0	0.30	0.50	ug/L	20.0	ND	100	70-130	4.91	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 L3220CUCS	Reported: 09/11/23 14:12
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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 AI33217 - EPA 200.8

Matrix Spike Dup (AI33217-MSD1)	Source: 23H3695-01				Prepared & Analyzed: 09/05/23						
Selenium	21.6	0.30	2.0	ug/L	20.0	ND	108	70-130	7.53	20	
Silver	20.0	0.20	0.20	ug/L	20.0	ND	100	70-130	6.55	20	
Thallium	20.3	0.050	0.10	ug/L	20.0	ND	102	70-130	5.40	20	
Vanadium	20.9	0.50	1.0	ug/L	20.0	0.570	101	70-130	4.41	20	
Zinc	102	2.0	5.0	ug/L	100	ND	102	70-130	6.07	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 L3220CUCS	Reported: 09/11/23 14:12
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Conventional Chemistry Parameters by APHA/EPA 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 AH34808 - General Prep

Blank (AH34808-BLK1)			Prepared & Analyzed: 08/25/23								
Total Organic Carbon	ND		0.300	mg/L							
LCS (AH34808-BS1)			Prepared & Analyzed: 08/25/23								
Total Organic Carbon	10.0		0.300	mg/L	10.0		100	85-115			
LCS Dup (AH34808-BSD1)			Prepared & Analyzed: 08/25/23								
Total Organic Carbon	10.0		0.300	mg/L	10.0		100	85-115	0.0589	20	
Duplicate (AH34808-DUP1)			Source: 23H3500-16			Prepared & Analyzed: 08/25/23					
Total Organic Carbon	7.14		0.300	mg/L		6.98			2.30	20	
Matrix Spike (AH34808-MS1)			Source: 23H3500-16			Prepared & Analyzed: 08/25/23					
Total Organic Carbon	15.1		0.300	mg/L	10.0	6.98	81.6	70-130			
Matrix Spike Dup (AH34808-MSD1)			Source: 23H3500-16			Prepared & Analyzed: 08/25/23					
Total Organic Carbon	16.2		0.300	mg/L	10.0	6.98	92.1	70-130	6.75	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 L3220CUCS	Reported: 09/11/23 14:12
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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 AH34895 - EPA 300.0

Blank (AH34895-BLK1)		Prepared & Analyzed: 08/28/23									
Fluoride	ND	0.020	0.10	mg/L							U
Nitrite as NO2	ND	0.070	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

LCS (AH34895-BS1)		Prepared & Analyzed: 08/28/23									
Nitrate as NO3	25	0.20	1.0	mg/L	24.7		102	90-110			
Fluoride	5.73	0.020	0.10	mg/L	5.56		103	90-110			
Nitrite as NO2	18.2	0.070	1.0	mg/L	18.2		100	90-110			
Sulfate as SO4	23.0	0.20	0.50	mg/L	22.2		103	90-110			

Duplicate (AH34895-DUP1)		Source: 23H3712-01		Prepared & Analyzed: 08/28/23							
Fluoride	ND	0.020	0.10	mg/L		ND				20	U
Nitrate as NO3	ND	0.20	1.0	mg/L		ND				20	U
Nitrite as NO2	ND	0.070	1.0	mg/L		ND				20	U
Sulfate as SO4	ND	0.20	0.50	mg/L		ND				20	U

Matrix Spike (AH34895-MS1)		Source: 23H3712-01		Prepared & Analyzed: 08/28/23							
Sulfate as SO4	20.4	2.0	5.0	mg/L	22.2	ND	91.6	80-120			
Fluoride	5.64	0.20	1.0	mg/L	5.56	ND	102	80-120			
Nitrate as NO3	22	2.0	10	mg/L	24.7	ND	88.0	80-120			
Nitrite as NO2	16.6	0.70	10	mg/L	18.2	ND	90.9	80-120			

Matrix Spike (AH34895-MS2)		Source: 23H3874-01		Prepared & Analyzed: 08/28/23							
Nitrite as NO2	16.5	0.70	10	mg/L	18.2	ND	90.7	80-120			
Sulfate as SO4	24.8	2.0	5.0	mg/L	22.2	5.09	88.8	80-120			
Fluoride	4.98	0.20	1.0	mg/L	5.56	ND	89.6	80-120			
Nitrate as NO3	23	2.0	10	mg/L	24.7	ND	91.4	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 L3220CUCS	Reported: 09/11/23 14:12
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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 AH34895 - EPA 300.0

Matrix Spike Dup (AH34895-MSD1)	Source: 23H3712-01				Prepared & Analyzed: 08/28/23						
Nitrite as NO2	16.5	0.70	10	mg/L	18.2	ND	90.7	80-120	0.221	20	
Fluoride	5.21	0.20	1.0	mg/L	5.56	ND	93.8	80-120	7.98	20	
Nitrate as NO3	22	2.0	10	mg/L	24.7	ND	88.7	80-120	0.816	20	
Sulfate as SO4	20.3	2.0	5.0	mg/L	22.2	ND	91.3	80-120	0.328	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 L3220CUCS

Reported:
09/11/23 14:12

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.
- T-02 Sample analyzed outside of recommended holding time per client.
- U Analyte included in analysis, but not detected at or above MDL.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- MDL Method detection limit
- Rec Recovery
- RPD Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

