



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

10 June 2019

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 4oz Glass Jar

Work Order: 19E2886

Enclosed are the results of analyses for samples received by the laboratory on 05/24/19 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin

Project Manager



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- 4oz Glass Jar
Project Number: -

Reported:
06/10/19 13:08

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
C9140CUHS	19E2886-01	Water	05/24/19 00:00	05/24/19 08:00



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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 4oz Glass Jar
 Project Number: -

Reported:
 06/10/19 13:08

Metals (Drinking Water) by EPA 200 Series Methods

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

C9140CUHS (19E2886-01) Water **Sampled: 05/24/19 00:00** **Received: 05/24/19 08:00**

Calcium	0.17	0.080	1.0	mg/L	1	AE94403	05/31/19 10:52	05/31/19 12:06	EPA 200.7	MAM	J
Magnesium	ND	0.030	1.0	mg/L	1	AE94403	05/31/19 10:52	05/31/19 12:06	EPA 200.7	MAM	U
Potassium	ND	0.090	1.0	mg/L	1	AE94403	05/31/19 10:52	05/31/19 12:06	EPA 200.7	MAM	U
Sodium	0.58	0.40	1.0	mg/L	1	AE94403	05/31/19 10:52	05/31/19 12:06	EPA 200.7	MAM	J



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz Glass Jar
Project Number: -

Reported:
06/10/19 13:08

Metals by EPA 200 Series Methods

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

C9140CUHS (19E2886-01) Water **Sampled: 05/24/19 00:00** **Received: 05/24/19 08:00**

Mercury	ND	0.020	0.020	ug/L	1	AE94188	06/07/19 07:42	06/07/19 15:18	EPA 245.1	LMR	U
Tin	0.19	0.050	0.050	mg/L	1	AE94403	05/31/19 10:52	05/31/19 12:06	EPA 200.7	MAM	



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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 4oz Glass Jar
 Project Number: -

Reported:
 06/10/19 13:08

Metals by EPA Method 200.8 ICP/MS

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

C9140CUHS (19E2886-01) Water Sampled: 05/24/19 00:00 Received: 05/24/19 08:00

Aluminum	6.9	4.0	8.0	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	J
Antimony	ND	0.16	0.40	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Arsenic	ND	0.32	0.40	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Barium	20	0.16	0.40	ug/L	1	AE94331	05/30/19 09:23	05/31/19 15:51	EPA 200.8	MB	
Beryllium	ND	0.040	0.080	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Boron	ND	16	40	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Cadmium	ND	0.048	0.080	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Chromium	ND	0.40	0.40	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Cobalt	ND	0.080	0.080	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Copper	0.89	0.32	0.40	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	
Iron	ND	8.0	40	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Lead	ND	0.048	0.20	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Manganese	ND	1.6	4.0	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Molybdenum	ND	0.056	0.20	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Nickel	ND	0.24	0.40	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Selenium	ND	0.24	1.6	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Silver	ND	0.040	0.080	ug/L	1	AE94331	05/30/19 09:23	05/31/19 15:51	EPA 200.8	MB	U
Thallium	ND	0.040	0.080	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Vanadium	ND	0.40	0.80	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U
Zinc	ND	3.2	4.0	ug/L	1	AE94331	05/30/19 09:23	05/30/19 23:40	EPA 200.8	MB	U



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz Glass Jar
Project Number: -

Reported:
06/10/19 13:08

Conventional Chemistry Parameters by APHA/EPA Methods

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

C9140CUHS (19E2886-01) Water Sampled: 05/24/19 00:00 Received: 05/24/19 08:00

Total Organic Carbon	ND	0.300	0.300	mg/L	1	AF93122	06/04/19 11:45	06/04/19 19:02	SM5310C	EAM	U
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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz Glass Jar Project Number: -	Reported: 06/10/19 13:08
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Anions by EPA Method 300.0

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

C9140CUHS (19E2886-01) Water **Sampled: 05/24/19 00:00** **Received: 05/24/19 08:00**

Fluoride	ND	0.070	0.10	mg/L	1	AE94225	05/28/19 18:31	05/28/19 18:31	EPA 300.0	LRN	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AE94225	05/28/19 18:31	05/28/19 18:31	EPA 300.0	LRN	T-02, U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AE94225	05/28/19 18:47	05/28/19 18:47	EPA 300.0	LRN	T-02, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AE94225	05/28/19 18:47	05/28/19 18:47	EPA 300.0	LRN	U



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz Glass Jar Project Number: -	Reported: 06/10/19 13:08
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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 AE94403 - EPA 200 Series

Blank (AE94403-BLK1)											Prepared & Analyzed: 05/31/19	
Calcium	ND	0.080	1.0	mg/L							U	
Magnesium	0.0428	0.030	1.0	mg/L							J	
Potassium	ND	0.090	1.0	mg/L							U	
Sodium	ND	0.40	1.0	mg/L							U	

LCS (AE94403-BS1)											Prepared & Analyzed: 05/31/19	
Calcium	7.15	0.080	1.0	mg/L	7.27		98.4	85-115				
Magnesium	7.10	0.030	1.0	mg/L	7.27		97.7	85-115				
Potassium	7.17	0.090	1.0	mg/L	7.27		98.7	85-115				
Sodium	7.46	0.40	1.0	mg/L	7.27		103	85-115				

Duplicate (AE94403-DUP1)											Source: 19E2886-01		Prepared & Analyzed: 05/31/19	
Calcium	0.171	0.080	1.0	mg/L		0.173			1.21	20	J			
Magnesium	ND	0.030	1.0	mg/L		ND				20	U			
Potassium	ND	0.090	1.0	mg/L		ND				20	U			
Sodium	0.578	0.40	1.0	mg/L		0.584			1.04	20	J			

Matrix Spike (AE94403-MS1)											Source: 19E2886-01		Prepared & Analyzed: 05/31/19	
Calcium	7.48	0.080	1.0	mg/L	7.27	0.173	100	70-130						
Magnesium	7.48	0.030	1.0	mg/L	7.27	ND	103	70-130						
Potassium	7.44	0.090	1.0	mg/L	7.27	ND	102	70-130						
Sodium	8.31	0.40	1.0	mg/L	7.27	0.584	106	70-130						

Matrix Spike Dup (AE94403-MSD1)											Source: 19E2886-01		Prepared & Analyzed: 05/31/19	
Calcium	7.82	0.080	1.0	mg/L	7.27	0.173	105	70-130	4.43	20				
Magnesium	7.87	0.030	1.0	mg/L	7.27	ND	108	70-130	5.07	20				
Potassium	7.66	0.090	1.0	mg/L	7.27	ND	105	70-130	2.94	20				
Sodium	8.70	0.40	1.0	mg/L	7.27	0.584	112	70-130	4.56	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- 4oz Glass Jar Project Number: -	Reported: 06/10/19 13:08
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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 AE94188 - EPA 245.1 Hg Water

Blank (AE94188-BLK1)					Prepared & Analyzed: 06/07/19						
Mercury	ND	0.020	0.020	ug/L							U
LCS (AE94188-BS1)					Prepared & Analyzed: 06/07/19						
Mercury	0.254	0.020	0.020	ug/L	0.250		102	85-115			
Duplicate (AE94188-DUP1)					Source: 19E2544-04 Prepared & Analyzed: 06/07/19						
Mercury	ND	0.020	0.020	ug/L		ND				20	U
MRL Check (AE94188-MRL1)					Prepared & Analyzed: 06/07/19						
Mercury	0.0250	0.020	0.020	ug/L	0.0500		50.0	0-200			
Matrix Spike (AE94188-MS1)					Source: 19E2544-04 Prepared & Analyzed: 06/07/19						
Mercury	0.202	0.020	0.020	ug/L	0.250	ND	80.8	70-130			
Matrix Spike Dup (AE94188-MSD1)					Source: 19E2544-04 Prepared & Analyzed: 06/07/19						
Mercury	0.204	0.020	0.020	ug/L	0.250	ND	81.6	70-130	0.985	20	

Batch AE94403 - EPA 200 Series

Blank (AE94403-BLK1)					Prepared & Analyzed: 05/31/19						
Tin	ND	0.050	0.050	mg/L							U
LCS (AE94403-BS1)					Prepared & Analyzed: 05/31/19						
Tin	0.177	0.050	0.050	mg/L	0.182		97.1	85-115			
Duplicate (AE94403-DUP1)					Source: 19E2886-01 Prepared & Analyzed: 05/31/19						
Tin	0.186	0.050	0.050	mg/L		0.187			0.356	20	

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 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 4oz Glass Jar
 Project Number: -

Reported:
 06/10/19 13:08

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 AE94403 - EPA 200 Series

Matrix Spike (AE94403-MS1)

Source: 19E2886-01

Prepared & Analyzed: 05/31/19

Tin	0.360	0.050	0.050	mg/L	0.182	0.187	95.5	70-130			
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Matrix Spike Dup (AE94403-MSD1)

Source: 19E2886-01

Prepared & Analyzed: 05/31/19

Tin	0.374	0.050	0.050	mg/L	0.182	0.187	103	70-130	3.81	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 AE94331 - EPA 200 Series

Blank (AE94331-BLK1)

Prepared & Analyzed: 05/30/19

Aluminum	ND	4.0	8.0	ug/L							U
Antimony	ND	0.16	0.40	ug/L							U
Arsenic	ND	0.32	0.40	ug/L							U
Barium	ND	0.16	0.40	ug/L							U
Beryllium	ND	0.040	0.080	ug/L							U
Boron	ND	16	40	ug/L							U
Cadmium	ND	0.048	0.080	ug/L							U
Chromium	ND	0.40	0.40	ug/L							U
Cobalt	ND	0.080	0.080	ug/L							U
Copper	ND	0.32	0.40	ug/L							U
Iron	ND	8.0	40	ug/L							U
Lead	ND	0.048	0.20	ug/L							U
Manganese	ND	1.6	4.0	ug/L							U
Molybdenum	ND	0.056	0.20	ug/L							U
Nickel	ND	0.24	0.40	ug/L							U
Selenium	ND	0.24	1.6	ug/L							U
Silver	ND	0.040	0.080	ug/L							U
Thallium	ND	0.040	0.080	ug/L							U
Vanadium	ND	0.40	0.80	ug/L							U
Zinc	ND	3.2	4.0	ug/L							U

LCS (AE94331-BS1)

Prepared & Analyzed: 05/30/19

Aluminum	613	4.0	8.0	ug/L	520		118	85-115			
Antimony	20.5	0.16	0.40	ug/L	20.0		102	85-115			
Arsenic	20.0	0.32	0.40	ug/L	20.0		100	85-115			
Barium	19.9	0.16	0.40	ug/L	20.0		99.4	85-115			
Beryllium	20.1	0.040	0.080	ug/L	20.0		101	85-115			
Boron	101	16	40	ug/L	100		101	85-115			
Cadmium	20.9	0.048	0.080	ug/L	20.0		105	85-115			
Chromium	19.1	0.40	0.40	ug/L	20.0		95.4	85-115			
Cobalt	19.2	0.080	0.080	ug/L	20.0		95.9	85-115			
Copper	18.7	0.32	0.40	ug/L	20.0		93.7	85-115			
Iron	498	8.0	40	ug/L	520		95.7	85-115			
Lead	20.7	0.048	0.20	ug/L	20.0		103	85-115			
Manganese	18.8	1.6	4.0	ug/L	20.0		93.9	85-115			
Molybdenum	21.1	0.056	0.20	ug/L	20.0		106	85-115			
Nickel	19.5	0.24	0.40	ug/L	20.0		97.5	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 AE94331 - EPA 200 Series

LCS (AE94331-BS1)

Prepared & Analyzed: 05/30/19

Selenium	20.2	0.24	1.6	ug/L	20.0	101	85-115				
Silver	20.1	0.040	0.080	ug/L	20.0	101	85-115				
Thallium	20.5	0.040	0.080	ug/L	20.0	103	85-115				
Vanadium	19.3	0.40	0.80	ug/L	20.0	96.5	85-115				
Zinc	98.9	3.2	4.0	ug/L	100	98.9	85-115				

Duplicate (AE94331-DUP1)

Source: 19E2886-01

Prepared & Analyzed: 05/30/19

Aluminum	6.76	4.0	8.0	ug/L	6.87			1.52	20		J
Antimony	ND	0.16	0.40	ug/L	ND				20		U
Arsenic	ND	0.32	0.40	ug/L	ND				20		U
Barium	20.1	0.16	0.40	ug/L	20.1			0.397	20		
Beryllium	ND	0.040	0.080	ug/L	ND				20		U
Boron	ND	16	40	ug/L	ND				20		U
Cadmium	ND	0.048	0.080	ug/L	ND				20		U
Chromium	ND	0.40	0.40	ug/L	ND				20		U
Cobalt	ND	0.080	0.080	ug/L	ND				20		U
Copper	0.844	0.32	0.40	ug/L	0.887			4.90	20		
Iron	ND	8.0	40	ug/L	ND				20		U
Lead	ND	0.048	0.20	ug/L	ND				20		U
Manganese	ND	1.6	4.0	ug/L	ND				20		U
Molybdenum	ND	0.056	0.20	ug/L	ND				20		U
Nickel	ND	0.24	0.40	ug/L	ND				20		U
Selenium	ND	0.24	1.6	ug/L	ND				20		U
Silver	ND	0.040	0.080	ug/L	ND				20		U
Thallium	ND	0.040	0.080	ug/L	ND				20		U
Vanadium	ND	0.40	0.80	ug/L	ND				20		U
Zinc	ND	3.2	4.0	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 AE94331 - EPA 200 Series

MRL Check (AE94331-MRL1)

Prepared & Analyzed: 05/30/19

Aluminum	16.8	4.0	8.0	ug/L	16.0	105	0-200				
Antimony	0.824	0.16	0.40	ug/L	0.800	103	0-200				
Arsenic	0.766	0.32	0.40	ug/L	0.800	95.8	0-200				
Barium	0.787	0.16	0.40	ug/L	0.800	98.4	0-200				
Beryllium	0.166	0.040	0.080	ug/L	0.160	104	0-200				
Boron	16.2	16	40	ug/L	16.0	101	0-200				J
Cadmium	0.161	0.048	0.080	ug/L	0.160	100	0-200				
Chromium	0.808	0.40	0.40	ug/L	0.800	101	0-200				
Cobalt	0.160	0.080	0.080	ug/L	0.160	99.7	0-200				
Copper	0.742	0.32	0.40	ug/L	0.800	92.7	0-200				
Iron	78.5	8.0	40	ug/L	80.0	98.1	0-200				
Lead	0.419	0.048	0.20	ug/L	0.400	105	0-200				
Manganese	7.50	1.6	4.0	ug/L	8.00	93.8	0-200				
Molybdenum	0.422	0.056	0.20	ug/L	0.400	106	0-200				
Nickel	0.801	0.24	0.40	ug/L	0.800	100	0-200				
Silver	0.169	0.040	0.080	ug/L	0.160	106	0-200				
Thallium	0.165	0.040	0.080	ug/L	0.160	103	0-200				
Vanadium	1.54	0.40	0.80	ug/L	1.60	96.5	0-200				
Zinc	7.82	3.2	4.0	ug/L	8.00	97.8	0-200				

Matrix Spike (AE94331-MS1)

Source: 19E2886-01

Prepared & Analyzed: 05/30/19

Aluminum	644	4.0	8.0	ug/L	520	6.87	123	70-130			
Antimony	20.8	0.16	0.40	ug/L	20.0	ND	104	70-130			
Arsenic	20.1	0.32	0.40	ug/L	20.0	ND	101	70-130			
Barium	41.5	0.16	0.40	ug/L	20.0	20.1	107	70-130			
Beryllium	19.3	0.040	0.080	ug/L	20.0	ND	96.6	70-130			
Boron	112	16	40	ug/L	100	ND	112	70-130			
Cadmium	20.2	0.048	0.080	ug/L	20.0	ND	101	70-130			
Chromium	19.0	0.40	0.40	ug/L	20.0	ND	95.0	70-130			
Cobalt	18.3	0.080	0.080	ug/L	20.0	ND	91.7	70-130			
Copper	19.1	0.32	0.40	ug/L	20.0	0.887	91.2	70-130			
Iron	486	8.0	40	ug/L	520	ND	93.5	70-130			
Lead	20.2	0.048	0.20	ug/L	20.0	ND	101	70-130			
Manganese	18.8	1.6	4.0	ug/L	20.0	ND	94.0	70-130			
Molybdenum	20.9	0.056	0.20	ug/L	20.0	ND	105	70-130			
Nickel	18.5	0.24	0.40	ug/L	20.0	ND	92.4	70-130			
Selenium	19.7	0.24	1.6	ug/L	20.0	ND	98.4	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz Glass Jar Project Number: -	Reported: 06/10/19 13:08
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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 AE94331 - EPA 200 Series

Matrix Spike (AE94331-MS1)		Source: 19E2886-01			Prepared & Analyzed: 05/30/19						
Silver	19.6	0.040	0.080	ug/L	20.0	ND	97.8	70-130			
Thallium	20.0	0.040	0.080	ug/L	20.0	ND	100	70-130			
Vanadium	19.7	0.40	0.80	ug/L	20.0	ND	98.3	70-130			
Zinc	91.4	3.2	4.0	ug/L	100	ND	91.4	70-130			

Matrix Spike (AE94331-MS2)		Source: 19E2994-06			Prepared & Analyzed: 05/30/19						
Aluminum	3220	20	40	ug/L	2600	ND	124	70-130			
Antimony	111	0.80	2.0	ug/L	100	ND	111	70-130			
Arsenic	127	1.6	2.0	ug/L	100	16.5	111	70-130			
Barium	320	0.80	2.0	ug/L	100	221	99.2	70-130			
Beryllium	104	0.20	0.40	ug/L	100	ND	104	70-130			
Boron	1500	80	200	ug/L	500	988	102	70-130			
Cadmium	109	0.24	0.40	ug/L	100	ND	109	70-130			
Chromium	92.8	2.0	2.0	ug/L	100	ND	92.8	70-130			
Cobalt	87.8	0.40	0.40	ug/L	100	ND	87.8	70-130			
Copper	89.0	1.6	2.0	ug/L	100	ND	89.0	70-130			
Iron	2350	40	200	ug/L	2600	ND	90.5	70-130			
Lead	95.8	0.24	1.0	ug/L	100	ND	95.8	70-130			
Manganese	411	8.0	20	ug/L	100	324	87.4	70-130			
Molybdenum	118	0.28	1.0	ug/L	100	12.0	106	70-130			
Nickel	88.4	1.2	2.0	ug/L	100	ND	88.4	70-130			
Selenium	123	1.2	8.0	ug/L	100	ND	123	70-130			
Thallium	96.4	0.20	0.40	ug/L	100	ND	96.4	70-130			
Vanadium	97.3	2.0	4.0	ug/L	100	ND	97.3	70-130			
Zinc	531	16	20	ug/L	500	ND	106	70-130			

Matrix Spike Dup (AE94331-MSD1)		Source: 19E2886-01			Prepared & Analyzed: 05/30/19						
Aluminum	641	4.0	8.0	ug/L	520	6.87	122	70-130	0.468	20	
Antimony	19.5	0.16	0.40	ug/L	20.0	ND	97.4	70-130	6.48	20	
Arsenic	19.8	0.32	0.40	ug/L	20.0	ND	99.0	70-130	1.52	20	
Barium	41.4	0.16	0.40	ug/L	20.0	20.1	107	70-130	0.225	20	
Beryllium	19.0	0.040	0.080	ug/L	20.0	ND	95.2	70-130	1.40	20	
Boron	112	16	40	ug/L	100	ND	112	70-130	0.117	20	
Cadmium	19.2	0.048	0.080	ug/L	20.0	ND	96.2	70-130	4.95	20	
Chromium	19.1	0.40	0.40	ug/L	20.0	ND	95.7	70-130	0.679	20	
Cobalt	18.2	0.080	0.080	ug/L	20.0	ND	91.2	70-130	0.461	20	
Copper	19.1	0.32	0.40	ug/L	20.0	0.887	91.2	70-130	0.00110	20	

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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 4oz Glass Jar
 Project Number: -

Reported:
 06/10/19 13:08

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 AE94331 - EPA 200 Series

Matrix Spike Dup (AE94331-MSD1)	Source: 19E2886-01				Prepared & Analyzed: 05/30/19						
Iron	479	8.0	40	ug/L	520	ND	92.2	70-130	1.42	20	
Lead	20.0	0.048	0.20	ug/L	20.0	ND	100	70-130	0.780	20	
Manganese	18.6	1.6	4.0	ug/L	20.0	ND	93.0	70-130	1.05	20	
Molybdenum	19.7	0.056	0.20	ug/L	20.0	ND	98.7	70-130	5.85	20	
Nickel	18.4	0.24	0.40	ug/L	20.0	ND	92.0	70-130	0.395	20	
Selenium	19.2	0.24	1.6	ug/L	20.0	ND	95.9	70-130	2.52	20	
Silver	18.7	0.040	0.080	ug/L	20.0	ND	93.5	70-130	4.43	20	
Thallium	19.8	0.040	0.080	ug/L	20.0	ND	99.2	70-130	0.996	20	
Vanadium	19.6	0.40	0.80	ug/L	20.0	ND	98.2	70-130	0.145	20	
Zinc	90.4	3.2	4.0	ug/L	100	ND	90.4	70-130	1.10	20	



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz Glass Jar Project Number: -	Reported: 06/10/19 13:08
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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
Batch AF93122 - General Prep											
Blank (AF93122-BLK1)					Prepared & Analyzed: 06/04/19						
Total Organic Carbon	ND	0.300	0.300	mg/L							U
LCS (AF93122-BS1)					Prepared & Analyzed: 06/04/19						
Total Organic Carbon	11.1	0.300	0.300	mg/L	10.0		111	85-115			
LCS Dup (AF93122-BSD1)					Prepared & Analyzed: 06/04/19						
Total Organic Carbon	11.1	0.300	0.300	mg/L	10.0		111	85-115	0.0569	20	
Duplicate (AF93122-DUP1)					Source: 19E2498-02 Prepared & Analyzed: 06/04/19						
Total Organic Carbon	1.09	0.300	0.300	mg/L		1.09			0.183	20	
Matrix Spike (AF93122-MS1)					Source: 19E2498-02 Prepared & Analyzed: 06/04/19						
Total Organic Carbon	11.9	0.300	0.300	mg/L	10.0	1.09	108	70-130			
Matrix Spike Dup (AF93122-MSD1)					Source: 19E2498-02 Prepared & Analyzed: 06/04/19						
Total Organic Carbon	11.9	0.300	0.300	mg/L	10.0	1.09	108	70-130	0.480	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 4oz Glass Jar Project Number: -	Reported: 06/10/19 13:08
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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 AE94225 - EPA 300.0

Blank (AE94225-BLK1)											Prepared & Analyzed: 05/28/19	
Nitrate as NO3	ND	0.20	1.0	mg/L							U	
Fluoride	ND	0.070	0.10	mg/L							U	
Nitrite as NO2	ND	0.20	1.0	mg/L							U	
Sulfate as SO4	ND	0.20	0.50	mg/L							U	

LCS (AE94225-BS1)											Prepared & Analyzed: 05/28/19	
Fluoride	5.66	0.070	0.10	mg/L	5.56		102	90-110				
Nitrate as NO3	25	0.20	1.0	mg/L	24.7		102	90-110				
Nitrite as NO2	18.4	0.20	1.0	mg/L	18.2		101	90-110				
Sulfate as SO4	22.3	0.20	0.50	mg/L	22.2		100	90-110				

Duplicate (AE94225-DUP1)											Source: 19E2886-01		Prepared & Analyzed: 05/28/19	
Fluoride	ND	0.070	0.10	mg/L		ND				20	U			
Sulfate as SO4	ND	0.20	0.50	mg/L		ND				20	U			
Nitrite as NO2	ND	0.20	1.0	mg/L		ND				20	U			
Nitrate as NO3	ND	0.20	1.0	mg/L		ND				20	U			

Matrix Spike (AE94225-MS1)											Source: 19E2886-01		Prepared & Analyzed: 05/28/19	
Fluoride	5.66	0.070	0.10	mg/L	5.56	ND	102	80-120						
Nitrite as NO2	18.3	0.20	1.0	mg/L	18.2	ND	100	80-120						
Sulfate as SO4	22.0	0.20	0.50	mg/L	22.2	ND	99.1	80-120						
Nitrate as NO3	25	0.20	1.0	mg/L	24.7	ND	101	80-120						

Matrix Spike Dup (AE94225-MSD1)											Source: 19E2886-01		Prepared & Analyzed: 05/28/19	
Fluoride	5.58	0.070	0.10	mg/L	5.56	ND	100	80-120	1.46	20				
Nitrate as NO3	25	0.20	1.0	mg/L	24.7	ND	101	80-120	0.134	20				
Nitrite as NO2	18.2	0.20	1.0	mg/L	18.2	ND	100	80-120	0.120	20				
Sulfate as SO4	22.0	0.20	0.50	mg/L	22.2	ND	98.8	80-120	0.212	20				

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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 4oz Glass Jar
Project Number: -

Reported:
06/10/19 13:08

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- 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

