



Alpha

Alpha Analytical Laboratories Inc.

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Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

08 September 2016

Sample Traps, LLC

Attn: Quality Control Manager

6398 Dougherty Road, Suite 36

Dublin, CA 94568

RE: QC- 8oz. Glass Jar

Work Order: 16H0164

Enclosed are the results of analyses for samples received by the laboratory on 08/02/16 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
6398 Dougherty Road, Suite 36
Dublin CA, 94568

Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
H6210CUHS	16H0164-01	Water	08/02/16 00:00	08/02/16 08:00

This represents an amended copy of the original report.
MDLs included.



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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
H6210CUHS (16H0164-01) Water Sampled: 08/02/16 00:00 Received: 08/02/16 08:00												
Calcium	0.094	0.020	1.0	mg/L	1	AH63237	08/03/16 10:25	08/08/16 12:56	EPA 200.7	MAM	J	
Magnesium	ND	0.0080	1.0	mg/L	1	AH63237	08/03/16 10:25	08/08/16 12:56	EPA 200.7	MAM	U	
Potassium	ND	0.040	1.0	mg/L	1	AH63237	08/03/16 10:25	08/08/16 12:56	EPA 200.7	MAM	U	
Sodium	0.26	0.020	1.0	mg/L	1	AH63237	08/03/16 10:25	08/08/16 12:56	EPA 200.7	MAM	J	



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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
H6210CUHS (16H0164-01) Water Sampled: 08/02/16 00:00 Received: 08/02/16 08:00												
Mercury	ND	0.010	0.020		ug/L	1	AH63162	08/03/16 12:00	08/03/16 16:27	EPA 245.1	JJM	U
Tin	0.066	0.020	0.050		mg/L	1	AH63237	08/03/16 10:25	08/08/16 12:56	EPA 200.7	MAM	



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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
H6210CUHS (16H0164-01) Water Sampled: 08/02/16 00:00 Received: 08/02/16 08:00												
Aluminum	7.9	2.0	10		ug/L	1	AH63246	08/03/16 11:51	08/08/16 11:25	EPA 200.8	MMY	J
Antimony	0.039	0.020	0.50		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	J
Arsenic	ND	0.20	0.50		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Barium	4.1	0.030	0.50		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	
Beryllium	ND	0.020	0.10		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Boron	ND	6.0	50		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Cadmium	ND	0.020	0.10		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Chromium	ND	0.080	0.50		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Cobalt	ND	0.010	0.10		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Copper	0.68	0.040	0.50		ug/L	1	AH63246	08/03/16 11:51	08/08/16 11:25	EPA 200.8	MMY	
Iron	7.4	2.0	50		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	J
Lead	0.41	0.020	0.25		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	
Manganese	0.25	0.030	5.0		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	J
Molybdenum	ND	0.020	0.25		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Nickel	0.081	0.060	0.50		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	J
Selenium	ND	0.20	2.0		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Silver	ND	0.050	0.10		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Thallium	ND	0.020	0.10		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Vanadium	ND	0.30	1.0		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	U
Zinc	3.6	0.50	5.0		ug/L	1	AH63246	08/03/16 11:51	08/04/16 12:12	EPA 200.8	MMY	J



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Sample Traps, LLC
6398 Dougherty Road, Suite 36
Dublin CA, 94568

Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
H6210CUHS (16H0164-01) Water Sampled: 08/02/16 00:00 Received: 08/02/16 08:00												
Total Organic Carbon	ND	0.100	0.300	mg/L	1	AH63260	08/04/16 08:50	08/04/16 17:01	SM5310C	JJM		U



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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
H6210CUHS (16H0164-01) Water Sampled: 08/02/16 00:00 Received: 08/02/16 08:00												
Fluoride	ND	0.070	0.10		mg/L	1	AH63231	08/03/16 16:49	08/03/16 16:49	EPA 300.0	SMP	U
Nitrate as NO3	ND	0.20	1.0		mg/L	1	AH63231	08/03/16 16:49	08/03/16 16:49	EPA 300.0	SMP	U
Nitrite as NO2	ND	0.070	1.0		mg/L	1	AH63231	08/03/16 16:49	08/03/16 16:49	EPA 300.0	SMP	U
Sulfate as SO4	ND	0.20	0.50		mg/L	1	AH63231	08/03/16 16:49	08/03/16 16:49	EPA 300.0	SMP	U



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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63237 - Metals Digest

Blank (AH63237-BLK1)

Prepared: 08/03/16 Analyzed: 08/04/16

Calcium	ND	0.020	1.0	mg/L							U
Magnesium	ND	0.0080	1.0	mg/L							U
Potassium	ND	0.040	1.0	mg/L							U
Sodium	ND	0.020	1.0	mg/L							U

LCS (AH63237-BS1)

Prepared: 08/03/16 Analyzed: 08/04/16

Calcium	7.53	0.020	1.0	mg/L	8.00		94.1	85-115			
Magnesium	7.39	0.0080	1.0	mg/L	8.00		92.4	85-115			
Potassium	7.76	0.040	1.0	mg/L	8.00		97.0	85-115			
Sodium	7.86	0.020	1.0	mg/L	8.00		98.2	85-115			

Duplicate (AH63237-DUP1)

Source: 16H0238-01

Prepared: 08/03/16 Analyzed: 08/04/16

Calcium	55.3	0.020	1.0	mg/L		54.3			1.80	20	
Magnesium	6.99	0.0080	1.0	mg/L		7.02			0.418	20	
Potassium	1.02	0.040	1.0	mg/L		1.01			1.02	20	
Sodium	6.01	0.020	1.0	mg/L		5.92			1.55	20	

Matrix Spike (AH63237-MS1)

Source: 16H0238-01

Prepared: 08/03/16 Analyzed: 08/04/16

Calcium	60.8	0.020	1.0	mg/L	8.00	54.3	80.9	70-130			
Magnesium	14.1	0.0080	1.0	mg/L	8.00	7.02	88.5	70-130			
Potassium	8.56	0.040	1.0	mg/L	8.00	1.01	94.3	70-130			
Sodium	13.3	0.020	1.0	mg/L	8.00	5.92	91.8	70-130			

Matrix Spike (AH63237-MS2)

Source: 16H0252-01

Prepared: 08/03/16 Analyzed: 08/04/16

Calcium	19.8	0.020	1.0	mg/L	8.00	12.3	94.9	70-130			
Magnesium	23.9	0.0080	1.0	mg/L	8.00	15.9	99.5	70-130			
Potassium	20.4	0.040	1.0	mg/L	8.00	12.9	94.7	70-130			
Sodium	46.6	0.020	1.0	mg/L	8.00	39.0	94.7	70-130			



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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63237 - Metals Digest

Matrix Spike Dup (AH63237-MSD1)

Source: 16H0238-01

Prepared: 08/03/16 Analyzed: 08/04/16

Calcium	61.0	0.020	1.0	mg/L	8.00	54.3	83.8	70-130	0.385	20	
Magnesium	14.2	0.0080	1.0	mg/L	8.00	7.02	89.3	70-130	0.499	20	
Potassium	8.52	0.040	1.0	mg/L	8.00	1.01	93.9	70-130	0.454	20	
Sodium	13.1	0.020	1.0	mg/L	8.00	5.92	89.9	70-130	1.12	20	



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Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63162 - EPA 245.1 Hg Water

Blank (AH63162-BLK1)			Prepared & Analyzed: 08/03/16								
Mercury	ND	0.010	0.020	ug/L							U
LCS (AH63162-BS1)			Prepared & Analyzed: 08/03/16								
Mercury	0.251	0.010	0.020	ug/L	0.250		100	85-115			
Duplicate (AH63162-DUP1)			Source: 16G2434-01			Prepared & Analyzed: 08/03/16					
Mercury	ND	0.010	0.020	ug/L		ND				20	U
Matrix Spike (AH63162-MS1)			Source: 16G2434-01			Prepared & Analyzed: 08/03/16					
Mercury	0.244	0.010	0.020	ug/L	0.250	ND	97.6	70-130			
Matrix Spike Dup (AH63162-MSD1)			Source: 16G2434-01			Prepared & Analyzed: 08/03/16					
Mercury	0.248	0.010	0.020	ug/L	0.250	ND	99.2	70-130	1.63	20	

Batch AH63237 - Metals Digest

Blank (AH63237-BLK1)			Prepared: 08/03/16 Analyzed: 08/04/16								
Tin	ND	0.020	0.050	mg/L							U
LCS (AH63237-BS1)			Prepared: 08/03/16 Analyzed: 08/04/16								
Tin	0.188	0.020	0.050	mg/L	0.200		94.1	85-115			
Duplicate (AH63237-DUP1)			Source: 16H0238-01			Prepared: 08/03/16 Analyzed: 08/04/16					
Tin	ND	0.020	0.050	mg/L		ND				20	U
Matrix Spike (AH63237-MS1)			Source: 16H0238-01			Prepared: 08/03/16 Analyzed: 08/04/16					
Tin	0.181	0.020	0.050	mg/L	0.200	ND	90.3	70-130			



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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63237 - Metals Digest

Matrix Spike (AH63237-MS2)

Source: 16H0252-01

Prepared: 08/03/16 Analyzed: 08/04/16

Tin	0.192	0.020	0.050	mg/L	0.200	ND	95.9	70-130			
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Matrix Spike Dup (AH63237-MSD1)

Source: 16H0238-01

Prepared: 08/03/16 Analyzed: 08/04/16

Tin	0.181	0.020	0.050	mg/L	0.200	ND	90.4	70-130	0.0934	20	
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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63246 - EPA 200.8

Blank (AH63246-BLK1)

Prepared: 08/03/16 Analyzed: 08/04/16

Aluminum	ND	2.0	10	ug/L							U
Antimony	ND	0.020	0.50	ug/L							U
Arsenic	ND	0.20	0.50	ug/L							U
Barium	ND	0.030	0.50	ug/L							U
Beryllium	ND	0.020	0.10	ug/L							U
Boron	ND	6.0	50	ug/L							U
Cadmium	ND	0.020	0.10	ug/L							U
Chromium	ND	0.080	0.50	ug/L							U
Cobalt	ND	0.010	0.10	ug/L							U
Copper	0.0475	0.040	0.50	ug/L							J
Iron	ND	2.0	50	ug/L							U
Lead	ND	0.020	0.25	ug/L							U
Manganese	ND	0.030	5.0	ug/L							U
Molybdenum	ND	0.020	0.25	ug/L							U
Nickel	ND	0.060	0.50	ug/L							U
Selenium	ND	0.20	2.0	ug/L							U
Silver	ND	0.050	0.10	ug/L							U
Thallium	ND	0.020	0.10	ug/L							U
Vanadium	ND	0.30	1.0	ug/L							U
Zinc	ND	0.50	5.0	ug/L							U

LCS (AH63246-BS1)

Prepared: 08/03/16 Analyzed: 08/04/16

Aluminum	521	2.0	10	ug/L	520	100	85-115
Antimony	21.5	0.020	0.50	ug/L	20.0	107	85-115
Arsenic	21.1	0.20	0.50	ug/L	20.0	106	85-115
Barium	20.6	0.030	0.50	ug/L	20.0	103	85-115
Beryllium	22.2	0.020	0.10	ug/L	20.0	111	85-115
Boron	100	6.0	50	ug/L	100	100	85-115
Cadmium	21.0	0.020	0.10	ug/L	20.0	105	85-115
Chromium	21.1	0.080	0.50	ug/L	20.0	105	85-115
Cobalt	21.4	0.010	0.10	ug/L	20.0	107	85-115
Copper	21.3	0.040	0.50	ug/L	20.0	107	85-115
Iron	550	2.0	50	ug/L	520	106	85-115
Lead	21.6	0.020	0.25	ug/L	20.0	108	85-115
Manganese	21.6	0.030	5.0	ug/L	20.0	108	85-115

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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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Sample Traps, LLC
6398 Dougherty Road, Suite 36
Dublin CA, 94568

Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63246 - EPA 200.8

LCS (AH63246-BS1)

Prepared: 08/03/16 Analyzed: 08/04/16

Molybdenum	21.3	0.020	0.25	ug/L	20.0	107	85-115				
Nickel	21.6	0.060	0.50	ug/L	20.0	108	85-115				
Selenium	21.4	0.20	2.0	ug/L	20.0	107	85-115				
Silver	20.5	0.050	0.10	ug/L	20.0	102	85-115				
Thallium	21.3	0.020	0.10	ug/L	20.0	107	85-115				
Vanadium	21.0	0.30	1.0	ug/L	20.0	105	85-115				
Zinc	105	0.50	5.0	ug/L	100	105	85-115				

Duplicate (AH63246-DUP1)

Source: 16G2400-01

Prepared: 08/03/16 Analyzed: 08/04/16

Aluminum	27.6	2.0	10	ug/L	26.9			2.70	20		
Antimony	0.937	0.020	0.50	ug/L	0.928			0.963	20		
Arsenic	ND	0.20	0.50	ug/L	ND				20		U
Barium	3.67	0.030	0.50	ug/L	3.62			1.46	20		
Beryllium	ND	0.020	0.10	ug/L	ND				20		U
Boron	ND	6.0	50	ug/L	ND				20		U
Cadmium	ND	0.020	0.10	ug/L	ND				20		U
Chromium	1.05	0.080	0.50	ug/L	1.05			0.354	20		
Cobalt	0.511	0.010	0.10	ug/L	0.529			3.34	20		
Copper	194	0.040	0.50	ug/L	194			0.410	20		
Iron	161	2.0	50	ug/L	159			1.13	20		
Lead	8.34	0.020	0.25	ug/L	8.24			1.25	20		
Manganese	0.799	0.030	5.0	ug/L	0.815			1.99	20		J
Molybdenum	0.161	0.020	0.25	ug/L	0.153			4.57	20		J
Nickel	1.26	0.060	0.50	ug/L	1.24			1.89	20		
Selenium	0.284	0.20	2.0	ug/L	0.314			10.3	20		J
Silver	0.0655	0.050	0.10	ug/L	ND				20		J
Thallium	ND	0.020	0.10	ug/L	ND				20		U
Vanadium	ND	0.30	1.0	ug/L	ND				20		U
Zinc	69.1	0.50	5.0	ug/L	69.3			0.279	20		

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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63246 - EPA 200.8

Matrix Spike (AH63246-MS1)

Source: 16G2400-01

Prepared: 08/03/16 Analyzed: 08/04/16

Aluminum	583	2.0	10	ug/L	520	26.9	107	70-130			
Antimony	23.1	0.020	0.50	ug/L	20.0	0.928	111	70-130			
Arsenic	22.6	0.20	0.50	ug/L	20.0	ND	113	70-130			
Barium	24.8	0.030	0.50	ug/L	20.0	3.62	106	70-130			
Beryllium	22.1	0.020	0.10	ug/L	20.0	ND	111	70-130			
Boron	107	6.0	50	ug/L	100	ND	107	70-130			
Cadmium	20.7	0.020	0.10	ug/L	20.0	ND	103	70-130			
Chromium	22.4	0.080	0.50	ug/L	20.0	1.05	107	70-130			
Cobalt	21.4	0.010	0.10	ug/L	20.0	0.529	104	70-130			
Copper	219	0.040	0.50	ug/L	20.0	194	126	70-130			
Iron	716	2.0	50	ug/L	520	159	107	70-130			
Lead	29.1	0.020	0.25	ug/L	20.0	8.24	104	70-130			
Manganese	22.4	0.030	5.0	ug/L	20.0	0.815	108	70-130			
Molybdenum	23.0	0.020	0.25	ug/L	20.0	0.153	114	70-130			
Nickel	21.8	0.060	0.50	ug/L	20.0	1.24	103	70-130			
Selenium	20.8	0.20	2.0	ug/L	20.0	0.314	103	70-130			
Silver	20.2	0.050	0.10	ug/L	20.0	ND	101	70-130			
Thallium	20.5	0.020	0.10	ug/L	20.0	ND	103	70-130			
Vanadium	21.8	0.30	1.0	ug/L	20.0	ND	109	70-130			
Zinc	167	0.50	5.0	ug/L	100	69.3	97.2	70-130			

Matrix Spike Dup (AH63246-MSD1)

Source: 16G2400-01

Prepared: 08/03/16 Analyzed: 08/04/16

Aluminum	582	2.0	10	ug/L	520	26.9	107	70-130	0.0383	20	
Antimony	23.0	0.020	0.50	ug/L	20.0	0.928	110	70-130	0.338	20	
Arsenic	22.3	0.20	0.50	ug/L	20.0	ND	111	70-130	1.42	20	
Barium	24.4	0.030	0.50	ug/L	20.0	3.62	104	70-130	1.60	20	
Beryllium	22.0	0.020	0.10	ug/L	20.0	ND	110	70-130	0.531	20	
Boron	105	6.0	50	ug/L	100	ND	105	70-130	1.96	20	
Cadmium	20.7	0.020	0.10	ug/L	20.0	ND	104	70-130	0.192	20	
Chromium	22.0	0.080	0.50	ug/L	20.0	1.05	105	70-130	1.87	20	
Cobalt	20.9	0.010	0.10	ug/L	20.0	0.529	102	70-130	2.35	20	
Copper	215	0.040	0.50	ug/L	20.0	194	108	70-130	1.59	20	
Iron	702	2.0	50	ug/L	520	159	104	70-130	1.99	20	
Lead	28.6	0.020	0.25	ug/L	20.0	8.24	102	70-130	1.75	20	
Manganese	22.0	0.030	5.0	ug/L	20.0	0.815	106	70-130	1.77	20	

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Sample Traps, LLC
6398 Dougherty Road, Suite 36
Dublin CA, 94568

Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63246 - EPA 200.8

Matrix Spike Dup (AH63246-MSD1)	Source: 16G2400-01				Prepared: 08/03/16 Analyzed: 08/04/16							
Molybdenum	22.8	0.020	0.25	ug/L	20.0	0.153	113	70-130	1.02	20		
Nickel	21.6	0.060	0.50	ug/L	20.0	1.24	102	70-130	0.978	20		
Selenium	20.6	0.20	2.0	ug/L	20.0	0.314	101	70-130	1.26	20		
Silver	19.9	0.050	0.10	ug/L	20.0	ND	99.5	70-130	1.31	20		
Thallium	20.3	0.020	0.10	ug/L	20.0	ND	101	70-130	1.20	20		
Vanadium	21.6	0.30	1.0	ug/L	20.0	ND	108	70-130	0.748	20		
Zinc	166	0.50	5.0	ug/L	100	69.3	96.6	70-130	0.404	20		



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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63260 - General Prep

Blank (AH63260-BLK1)

Prepared & Analyzed: 08/04/16

Total Organic Carbon	ND	0.100	0.300	mg/L							U
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LCS (AH63260-BS1)

Prepared & Analyzed: 08/04/16

Total Organic Carbon	10.3	0.100	0.300	mg/L	10.0		103	85-115			
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LCS Dup (AH63260-BSD1)

Prepared & Analyzed: 08/04/16

Total Organic Carbon	10.5	0.100	0.300	mg/L	10.0		105	85-115	1.14	20	
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Duplicate (AH63260-DUP1)

Source: 16H0347-01

Prepared & Analyzed: 08/04/16

Total Organic Carbon	ND	0.100	0.300	mg/L		ND				20	U
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Matrix Spike (AH63260-MS1)

Source: 16H0422-01

Prepared & Analyzed: 08/04/16

Total Organic Carbon	22.6	0.200	0.600	mg/L	20.0	0.982	108	70-130			
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Matrix Spike Dup (AH63260-MSD1)

Source: 16H0422-01

Prepared & Analyzed: 08/04/16

Total Organic Carbon	22.6	0.200	0.600	mg/L	20.0	0.982	108	70-130	0.232	20	
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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63231 - General Preparation

Blank (AH63231-BLK1)

Prepared & Analyzed: 08/03/16

Fluoride	ND	0.070	0.10	mg/L							U
Sulfate as SO4	ND	0.20	0.50	mg/L							U
Nitrate as NO3	ND	0.20	1.0	mg/L							U
Nitrite as NO2	ND	0.070	1.0	mg/L							U

LCS (AH63231-BS1)

Prepared & Analyzed: 08/03/16

Nitrate as NO3	23	0.20	1.0	mg/L	22.2		103	90-110			
Sulfate as SO4	20.2	0.20	0.50	mg/L	20.0		101	90-110			
Fluoride	4.76	0.070	0.10	mg/L	5.00		95.2	90-110			
Nitrite as NO2	16.8	0.070	1.0	mg/L	16.4		103	90-110			

Duplicate (AH63231-DUP1)

Source: 16H0268-01

Prepared & Analyzed: 08/03/16

Sulfate as SO4	7.31	0.20	0.50	mg/L		7.30			0.260	20	
Nitrite as NO2	ND	0.070	1.0	mg/L		ND				20	U
Nitrate as NO3	0.34	0.20	1.0	mg/L		0.35			2.58	20	J
Fluoride	0.0860	0.070	0.10	mg/L		0.0900			4.55	20	J

Matrix Spike (AH63231-MS1)

Source: 16H0268-01

Prepared & Analyzed: 08/03/16

Nitrite as NO2	18.8	0.070	1.0	mg/L	18.2	ND	103	80-120			
Sulfate as SO4	30.8	0.20	0.50	mg/L	22.2	7.30	106	80-120			
Fluoride	5.10	0.070	0.10	mg/L	5.56	0.0900	90.1	80-120			
Nitrate as NO3	26	0.20	1.0	mg/L	24.7	0.35	103	80-120			

Matrix Spike (AH63231-MS2)

Source: 16H0234-01

Prepared & Analyzed: 08/03/16

Fluoride	5.41	0.070	0.10	mg/L	5.56	0.103	95.6	80-120			
Nitrite as NO2	18.9	0.070	1.0	mg/L	18.2	ND	104	80-120			
Nitrate as NO3	25	0.20	1.0	mg/L	24.7	ND	103	80-120			
Sulfate as SO4	35.2	0.20	0.50	mg/L	22.2	11.5	107	80-120			



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Project Manager: Quality Control Manager
Project: QC- 8oz. Glass Jar
Project Number: [none]

Reported:
09/08/16 09:26

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 AH63231 - General Preparation

Matrix Spike Dup (AH63231-MSD1)

Source: 16H0268-01

Prepared & Analyzed: 08/03/16

Nitrite as NO2	19.4	0.070	1.0	mg/L	18.2	ND	106	80-120	3.10	20	
Nitrate as NO3	26	0.20	1.0	mg/L	24.7	0.35	106	80-120	2.77	20	
Sulfate as SO4	31.7	0.20	0.50	mg/L	22.2	7.30	110	80-120	2.68	20	
Fluoride	5.22	0.070	0.10	mg/L	5.56	0.0900	92.4	80-120	2.48	20	



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Sample Traps, LLC

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Dublin CA, 94568

Project Manager: Quality Control Manager

Project: QC- 8oz. Glass Jar

Project Number: [none]

Reported:

09/08/16 09:26

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
P-02	Sample was received with insufficient preservative. Sample was preserved and allowed to sit 24 hours before further processing.
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