



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

19 October 2016

Sample Traps, LLC

Attn: Quality Control Manager

6398 Dougherty Road, Suite 36

Dublin, CA 94568

RE: QC- 4oz Glass Jar

Work Order: 16J0393

Enclosed are the results of analyses for samples received by the laboratory on 10/05/16 07:00. 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.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C6271CUHS	16J0393-01	Water	10/05/16 00:00	10/05/16 07:00



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
C6271CUHS (16J0393-01) Water												P-02
Sampled: 10/05/16 00:00 Received: 10/05/16 07:00												
Calcium	0.080	0.020	1.0		mg/L	1	AJ63461	10/11/16 14:48	10/12/16 17:01	EPA 200.7	MAM	J
Magnesium	0.040	0.0080	1.0		mg/L	1	AJ63461	10/11/16 14:48	10/12/16 17:01	EPA 200.7	MAM	J
Potassium	ND	0.040	1.0		mg/L	1	AJ63461	10/11/16 14:48	10/12/16 17:01	EPA 200.7	MAM	U
Sodium	0.13	0.020	1.0		mg/L	1	AJ63461	10/11/16 14:48	10/12/16 17:01	EPA 200.7	MAM	J



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
C6271CUHS (16J0393-01) Water Sampled: 10/05/16 00:00 Received: 10/05/16 07:00												
Mercury	ND	0.010	0.020	ug/L	1	AJ63392	10/10/16 11:36	10/10/16 15:00	EPA 245.1	JJM		U
Tin	ND	0.020	0.050	mg/L	1	AJ63461	10/11/16 14:48	10/12/16 17:01	EPA 200.7	MAM		U



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
C6271CUHS (16J0393-01) Water Sampled: 10/05/16 00:00 Received: 10/05/16 07:00												
												P-02
Aluminum	14	1.6	8.0	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		
Antimony	ND	0.016	0.40	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Arsenic	0.27	0.16	0.40	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		J
Barium	0.35	0.040	0.40	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		J
Beryllium	ND	0.016	0.080	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Boron	9.3	4.8	40	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		J
Cadmium	ND	0.040	0.080	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Chromium	ND	0.064	0.40	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Cobalt	ND	0.0080	0.080	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Copper	0.093	0.040	0.40	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		J
Iron	ND	1.6	40	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Lead	ND	0.016	0.20	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Manganese	0.13	0.040	4.0	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		J
Molybdenum	0.022	0.016	0.20	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		J
Nickel	ND	0.048	0.40	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Selenium	ND	0.16	1.6	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Silver	ND	0.040	0.080	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Thallium	ND	0.040	0.080	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Vanadium	ND	0.40	0.80	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		U
Zinc	0.73	0.40	4.0	ug/L	1	AJ63460	10/11/16 14:45	10/12/16 09:16	EPA 200.8	MMY		J



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

Conventional Chemistry Parameters by APHA/EPA Methods

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

C6271CUHS (16J0393-01) Water **Sampled: 10/05/16 00:00** **Received: 10/05/16 07:00**

Total Organic Carbon	0.136	0.100	0.300	mg/L	1	AJ63313	10/07/16 09:05	10/07/16 17:21	SM5310C	JJM	J
-----------------------------	--------------	--------------	--------------	-------------	----------	----------------	-----------------------	-----------------------	----------------	------------	----------



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
C6271CUHS (16J0393-01) Water Sampled: 10/05/16 00:00 Received: 10/05/16 07:00												
Fluoride	ND	0.070	0.10		mg/L	1	AJ63303	10/07/16 15:35	10/07/16 15:35	EPA 300.0	SMP	U
Nitrate as NO3	ND	0.20	1.0		mg/L	1	AJ63303	10/07/16 15:35	10/07/16 15:35	EPA 300.0	SMP	T-2, U
Nitrite as NO2	ND	0.070	1.0		mg/L	1	AJ63303	10/07/16 15:35	10/07/16 15:35	EPA 300.0	SMP	T-2, U
Sulfate as SO4	ND	0.20	0.50		mg/L	1	AJ63303	10/07/16 15:35	10/07/16 15:35	EPA 300.0	SMP	U



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ63461 - EPA 200 Series

Blank (AJ63461-BLK1)

Prepared: 10/11/16 Analyzed: 10/12/16

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 (AJ63461-BS1)

Prepared: 10/11/16 Analyzed: 10/12/16

Calcium	7.74	0.020	1.0	mg/L	6.80		114	85-115			
Magnesium	7.91	0.0080	1.0	mg/L	7.40		107	85-115			
Potassium	7.90	0.040	1.0	mg/L	7.60		104	85-115			
Sodium	7.78	0.020	1.0	mg/L	7.40		105	85-115			

Duplicate (AJ63461-DUP1)

Source: 16J0393-01

Prepared: 10/11/16 Analyzed: 10/12/16

Calcium	0.0786	0.020	1.0	mg/L		0.0805			2.39	20	J
Magnesium	0.0369	0.0080	1.0	mg/L		0.0404			8.88	20	J
Potassium	ND	0.040	1.0	mg/L		ND				20	U
Sodium	0.0907	0.020	1.0	mg/L		0.132			37.1	20	J

Matrix Spike (AJ63461-MS1)

Source: 16J0393-01

Prepared: 10/11/16 Analyzed: 10/12/16

Calcium	7.80	0.020	1.0	mg/L	6.80	0.0805	114	70-130			
Magnesium	8.33	0.0080	1.0	mg/L	7.40	0.0404	112	70-130			
Potassium	7.96	0.040	1.0	mg/L	7.60	ND	105	70-130			
Sodium	8.18	0.020	1.0	mg/L	7.40	0.132	109	70-130			

Matrix Spike Dup (AJ63461-MSD1)

Source: 16J0393-01

Prepared: 10/11/16 Analyzed: 10/12/16

Calcium	7.80	0.020	1.0	mg/L	6.80	0.0805	113	70-130	0.0873	20	
Magnesium	8.11	0.0080	1.0	mg/L	7.40	0.0404	109	70-130	2.67	20	
Potassium	7.97	0.040	1.0	mg/L	7.60	ND	105	70-130	0.112	20	
Sodium	8.27	0.020	1.0	mg/L	7.40	0.132	110	70-130	1.09	20	



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ63392 - EPA 245.1 Hg Water

Blank (AJ63392-BLK1)			Prepared & Analyzed: 10/10/16								
Mercury	ND	0.010	0.020	ug/L							U
LCS (AJ63392-BS1)			Prepared & Analyzed: 10/10/16								
Mercury	0.246	0.010	0.020	ug/L	0.250		98.4	85-115			
Duplicate (AJ63392-DUP1)			Source: 16J0393-01			Prepared & Analyzed: 10/10/16					
Mercury	0.0107	0.010	0.020	ug/L		ND				20	J
Matrix Spike (AJ63392-MS1)			Source: 16J0393-01			Prepared & Analyzed: 10/10/16					
Mercury	0.251	0.010	0.020	ug/L	0.250	ND	100	70-130			
Matrix Spike Dup (AJ63392-MSD1)			Source: 16J0393-01			Prepared & Analyzed: 10/10/16					
Mercury	0.266	0.010	0.020	ug/L	0.250	ND	106	70-130	5.80	20	

Batch AJ63461 - EPA 200 Series

Blank (AJ63461-BLK1)			Prepared: 10/11/16 Analyzed: 10/12/16								
Tin	ND	0.020	0.050	mg/L							U
LCS (AJ63461-BS1)			Prepared: 10/11/16 Analyzed: 10/12/16								
Tin	0.199	0.020	0.050	mg/L	0.200		99.5	85-115			
Duplicate (AJ63461-DUP1)			Source: 16J0393-01			Prepared: 10/11/16 Analyzed: 10/12/16					
Tin	ND	0.020	0.050	mg/L		ND				20	U
Matrix Spike (AJ63461-MS1)			Source: 16J0393-01			Prepared: 10/11/16 Analyzed: 10/12/16					
Tin	0.203	0.020	0.050	mg/L	0.200	ND	101	70-130			



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

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
---------	--------	-----	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch AJ63461 - EPA 200 Series

Matrix Spike Dup (AJ63461-MSD1)

Source: 16J0393-01

Prepared: 10/11/16 Analyzed: 10/12/16

Tin	0.202	0.020	0.050	mg/L	0.200	ND	101	70-130	0.615	20	
-----	-------	-------	-------	------	-------	----	-----	--------	-------	----	--



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ63460 - EPA 200 Series

Blank (AJ63460-BLK1)

Prepared: 10/11/16 Analyzed: 10/12/16

Aluminum	ND	1.6	8.0	ug/L							U
Antimony	ND	0.016	0.40	ug/L							U
Arsenic	ND	0.16	0.40	ug/L							U
Barium	ND	0.040	0.40	ug/L							U
Beryllium	ND	0.016	0.080	ug/L							U
Boron	ND	4.8	40	ug/L							U
Cadmium	ND	0.040	0.080	ug/L							U
Chromium	ND	0.064	0.40	ug/L							U
Cobalt	ND	0.0080	0.080	ug/L							U
Copper	ND	0.040	0.40	ug/L							U
Iron	ND	1.6	40	ug/L							U
Lead	ND	0.016	0.20	ug/L							U
Manganese	ND	0.040	4.0	ug/L							U
Molybdenum	ND	0.016	0.20	ug/L							U
Nickel	ND	0.048	0.40	ug/L							U
Selenium	ND	0.16	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	0.40	4.0	ug/L							U

LCS (AJ63460-BS1)

Prepared: 10/11/16 Analyzed: 10/12/16

Aluminum	545	1.6	8.0	ug/L	520	105	85-115
Antimony	21.1	0.016	0.40	ug/L	20.0	105	85-115
Arsenic	21.1	0.16	0.40	ug/L	20.0	106	85-115
Barium	20.3	0.040	0.40	ug/L	20.0	101	85-115
Beryllium	20.7	0.016	0.080	ug/L	20.0	103	85-115
Boron	92.4	4.8	40	ug/L	100	92.4	85-115
Cadmium	20.8	0.040	0.080	ug/L	20.0	104	85-115
Chromium	19.5	0.064	0.40	ug/L	20.0	97.3	85-115
Cobalt	18.7	0.0080	0.080	ug/L	20.0	93.7	85-115
Copper	18.5	0.040	0.40	ug/L	20.0	92.7	85-115
Iron	506	1.6	40	ug/L	520	97.3	85-115
Lead	21.1	0.016	0.20	ug/L	20.0	106	85-115
Manganese	20.4	0.040	4.0	ug/L	20.0	102	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.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ63460 - EPA 200 Series

LCS (AJ63460-BS1)

Prepared: 10/11/16 Analyzed: 10/12/16

Molybdenum	20.2	0.016	0.20	ug/L	20.0	101	85-115				
Nickel	18.9	0.048	0.40	ug/L	20.0	94.4	85-115				
Selenium	21.6	0.16	1.6	ug/L	20.0	108	85-115				
Silver	19.8	0.040	0.080	ug/L	20.0	98.9	85-115				
Thallium	21.1	0.040	0.080	ug/L	20.0	105	85-115				
Vanadium	19.7	0.40	0.80	ug/L	20.0	98.5	85-115				
Zinc	101	0.40	4.0	ug/L	100	101	85-115				

Duplicate (AJ63460-DUP1)

Source: 16J0393-01

Prepared: 10/11/16 Analyzed: 10/12/16

Aluminum	13.9	1.6	8.0	ug/L	14.0			0.919	20		
Antimony	0.0168	0.016	0.40	ug/L	ND				20		J
Arsenic	0.183	0.16	0.40	ug/L	0.274			39.5	20		J
Barium	0.326	0.040	0.40	ug/L	0.345			5.52	20		J
Beryllium	ND	0.016	0.080	ug/L	ND				20		U
Boron	9.09	4.8	40	ug/L	9.32			2.54	20		J
Cadmium	ND	0.040	0.080	ug/L	ND				20		U
Chromium	ND	0.064	0.40	ug/L	ND				20		U
Cobalt	ND	0.0080	0.080	ug/L	ND				20		U
Copper	0.0472	0.040	0.40	ug/L	0.0935			65.8	20		J
Iron	ND	1.6	40	ug/L	ND				20		U
Lead	ND	0.016	0.20	ug/L	ND				20		U
Manganese	0.130	0.040	4.0	ug/L	0.129			0.993	20		J
Molybdenum	0.0208	0.016	0.20	ug/L	0.0222			6.32	20		J
Nickel	ND	0.048	0.40	ug/L	ND				20		U
Selenium	ND	0.16	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	0.835	0.40	4.0	ug/L	0.726			14.0	20		J

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.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ63460 - EPA 200 Series

Matrix Spike (AJ63460-MS1)		Source: 16J0393-01			Prepared: 10/11/16		Analyzed: 10/12/16	
Aluminum	555	1.6	8.0	ug/L	520	14.0	104	70-130
Antimony	20.4	0.016	0.40	ug/L	20.0	ND	102	70-130
Arsenic	19.8	0.16	0.40	ug/L	20.0	0.274	97.6	70-130
Barium	20.2	0.040	0.40	ug/L	20.0	0.345	99.1	70-130
Beryllium	19.3	0.016	0.080	ug/L	20.0	ND	96.5	70-130
Boron	98.2	4.8	40	ug/L	100	9.32	88.8	70-130
Cadmium	19.6	0.040	0.080	ug/L	20.0	ND	98.2	70-130
Chromium	19.2	0.064	0.40	ug/L	20.0	ND	96.0	70-130
Cobalt	18.4	0.0080	0.080	ug/L	20.0	ND	92.1	70-130
Copper	18.6	0.040	0.40	ug/L	20.0	0.0935	92.8	70-130
Iron	500	1.6	40	ug/L	520	ND	96.2	70-130
Lead	20.7	0.016	0.20	ug/L	20.0	ND	103	70-130
Manganese	20.2	0.040	4.0	ug/L	20.0	0.129	100	70-130
Molybdenum	20.0	0.016	0.20	ug/L	20.0	0.0222	100	70-130
Nickel	18.5	0.048	0.40	ug/L	20.0	ND	92.4	70-130
Selenium	18.4	0.16	1.6	ug/L	20.0	ND	92.0	70-130
Silver	19.6	0.040	0.080	ug/L	20.0	ND	98.0	70-130
Thallium	20.5	0.040	0.080	ug/L	20.0	ND	103	70-130
Vanadium	19.3	0.40	0.80	ug/L	20.0	ND	96.6	70-130
Zinc	91.8	0.40	4.0	ug/L	100	0.726	91.0	70-130

Matrix Spike Dup (AJ63460-MSD1)		Source: 16J0393-01			Prepared: 10/11/16		Analyzed: 10/12/16			
Aluminum	556	1.6	8.0	ug/L	520	14.0	104	70-130	0.0750	20
Antimony	20.6	0.016	0.40	ug/L	20.0	ND	103	70-130	0.987	20
Arsenic	20.0	0.16	0.40	ug/L	20.0	0.274	98.9	70-130	1.30	20
Barium	20.4	0.040	0.40	ug/L	20.0	0.345	100	70-130	1.02	20
Beryllium	19.7	0.016	0.080	ug/L	20.0	ND	98.3	70-130	1.83	20
Boron	98.9	4.8	40	ug/L	100	9.32	89.6	70-130	0.746	20
Cadmium	19.7	0.040	0.080	ug/L	20.0	ND	98.7	70-130	0.519	20
Chromium	19.4	0.064	0.40	ug/L	20.0	ND	96.8	70-130	0.793	20
Cobalt	18.6	0.0080	0.080	ug/L	20.0	ND	93.0	70-130	0.998	20
Copper	18.9	0.040	0.40	ug/L	20.0	0.0935	94.1	70-130	1.40	20
Iron	505	1.6	40	ug/L	520	ND	97.1	70-130	0.958	20
Lead	20.8	0.016	0.20	ug/L	20.0	ND	104	70-130	0.605	20
Manganese	20.3	0.040	4.0	ug/L	20.0	0.129	101	70-130	0.954	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.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

Metals by EPA Method 200.8 ICP/MS - Quality Control

Analyte	Result	MDL	Reporting		Spike Level	Source		%REC		RPD	Limit	Notes
			Limit	Units		Result	%REC	Limits	RPD			

Batch AJ63460 - EPA 200 Series

Matrix Spike Dup (AJ63460-MSD1)

Source: 16J0393-01

Prepared: 10/11/16 Analyzed: 10/12/16

Molybdenum	20.3	0.016	0.20	ug/L	20.0	0.0222	101	70-130	1.17	20
Nickel	18.6	0.048	0.40	ug/L	20.0	ND	93.2	70-130	0.942	20
Selenium	18.4	0.16	1.6	ug/L	20.0	ND	91.8	70-130	0.281	20
Silver	19.8	0.040	0.080	ug/L	20.0	ND	99.2	70-130	1.31	20
Thallium	20.7	0.040	0.080	ug/L	20.0	ND	104	70-130	0.979	20
Vanadium	19.5	0.40	0.80	ug/L	20.0	ND	97.3	70-130	0.737	20
Zinc	92.6	0.40	4.0	ug/L	100	0.726	91.9	70-130	0.962	20



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

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 AJ63313 - General Prep

Blank (AJ63313-BLK1)			Prepared & Analyzed: 10/07/16								
Total Organic Carbon	ND	0.100	0.300	mg/L							U
LCS (AJ63313-BS1)			Prepared & Analyzed: 10/07/16								
Total Organic Carbon	10.7	0.100	0.300	mg/L	10.0		107	85-115			
LCS Dup (AJ63313-BSD1)			Prepared & Analyzed: 10/07/16								
Total Organic Carbon	10.6	0.100	0.300	mg/L	10.0		106	85-115	0.861	20	
Duplicate (AJ63313-DUP1)			Source: 16J0194-01			Prepared & Analyzed: 10/07/16					
Total Organic Carbon	0.164	0.100	0.300	mg/L		0.212			25.1	20	J
Matrix Spike (AJ63313-MS1)			Source: 16J0194-01			Prepared & Analyzed: 10/07/16					
Total Organic Carbon	21.6	0.200	0.600	mg/L	20.0	0.212	107	70-130			
Matrix Spike Dup (AJ63313-MSD1)			Source: 16J0194-01			Prepared & Analyzed: 10/07/16					
Total Organic Carbon	21.7	0.200	0.600	mg/L	20.0	0.212	107	70-130	0.285	20	



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

Anions by EPA Method 300.0 - Quality Control

Analyte	Result	MDL	Reporting		Spike Level	Source		%REC		RPD		Notes
			Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch AJ63303 - General Preparation

Blank (AJ63303-BLK1)

Prepared & Analyzed: 10/07/16

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

LCS (AJ63303-BS1)

Prepared & Analyzed: 10/07/16

Sulfate as SO4	23.8	0.20	0.50	mg/L	22.2		107	90-110				
Nitrate as NO3	26	0.20	1.0	mg/L	24.7		107	90-110				
Fluoride	5.83	0.070	0.10	mg/L	5.56		105	90-110				
Nitrite as NO2	18.7	0.070	1.0	mg/L	18.2		103	90-110				

Duplicate (AJ63303-DUP1)

Source: 16J0463-01

Prepared & Analyzed: 10/07/16

Nitrate as NO3	0.31	0.20	1.0	mg/L		0.31			0.00	20		J
Nitrite as NO2	ND	0.070	1.0	mg/L		ND				20		U
Sulfate as SO4	95.8	1.0	2.5	mg/L		96.0			0.208	20		
Fluoride	0.146	0.070	0.10	mg/L		0.144			1.38	20		

Matrix Spike (AJ63303-MS1)

Source: 16J0463-01

Prepared & Analyzed: 10/07/16

Sulfate as SO4	119	1.0	2.5	mg/L	22.2	96.0	101	80-120				
Fluoride	6.15	0.35	0.50	mg/L	5.56	0.144	108	80-120				
Nitrite as NO2	17.2	0.35	5.0	mg/L	18.2	ND	94.4	80-120				
Nitrate as NO3	25	1.0	5.0	mg/L	24.7	0.31	99.9	80-120				

Matrix Spike (AJ63303-MS2)

Source: 16J0576-04

Prepared & Analyzed: 10/07/16

Fluoride	5.36	0.35	0.50	mg/L	5.56	0.120	94.2	80-120				
Nitrite as NO2	17.6	0.35	5.0	mg/L	18.2	0.141	95.6	80-120				
Sulfate as SO4	29.5	1.0	2.5	mg/L	22.2	7.00	101	80-120				
Nitrate as NO3	26	1.0	5.0	mg/L	24.7	0.82	101	80-120				



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

Reported:
10/19/16 09:39

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
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ63303 - General Preparation

Matrix Spike Dup (AJ63303-MSD1)

Source: 16J0463-01

Prepared & Analyzed: 10/07/16

Fluoride	6.09	0.35	0.50	mg/L	5.56	0.144	107	80-120	0.999	20	
Nitrate as NO3	25	1.0	5.0	mg/L	24.7	0.31	99.2	80-120	0.626	20	
Sulfate as SO4	119	1.0	2.5	mg/L	22.2	96.0	102	80-120	0.183	20	
Nitrite as NO2	17.4	0.35	5.0	mg/L	18.2	ND	95.5	80-120	1.16	20	



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

Sample Traps, LLC

6398 Dougherty Road, Suite 36

Dublin CA, 94568

Project Manager: Quality Control Manager

Project: QC- 4oz Glass Jar

Project Number: -

Reported:

10/19/16 09:39

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.
- T-2 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

