



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

23 March 2020

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 2.5g Cubitainer

Work Order: 20C0933

Enclosed are the results of analyses for samples received by the laboratory on 03/06/20 12:00. 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- 2.5g Cubitainer
Project Number: Lot Number N0051GUCS

Reported:
03/23/20 09:11

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
N0051GUCS	20C0933-01	Water	03/06/20 00:00	03/06/20 12:00



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- 2.5g Cubitainer
 Project Number: Lot Number N0051GUCS

Reported:
 03/23/20 09:11

Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
N0051GUCS (20C0933-01) Water Sampled: 03/06/20 00:00 Received: 03/06/20 12:00												
Calcium	ND	0.080	1.0	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:10	EPA 200.7	MAM	1551	U
Magnesium	ND	0.030	1.0	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:10	EPA 200.7	MAM	1551	U
Potassium	ND	0.090	1.0	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:10	EPA 200.7	MAM	1551	U
Sodium	ND	0.40	1.0	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:10	EPA 200.7	MAM	1551	U



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- 2.5g Cubitainer
 Project Number: Lot Number N0051GUCS

Reported:
 03/23/20 09:11

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
N0051GUCS (20C0933-01) Water Sampled: 03/06/20 00:00 Received: 03/06/20 12:00												
Mercury	ND	0.020	0.020	ug/L	1	AC03941	03/16/20 06:31	03/16/20 14:33	EPA 245.1	LMR	1551	U
Tin	ND	0.050	0.050	mg/L	1	AC03981	03/16/20 11:15	03/19/20 15:10	EPA 200.7	MAM	1551	U



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- 2.5g Cubitainer
 Project Number: Lot Number N0051GUCS

Reported:
 03/23/20 09:11

Metals by EPA Method 200.8 ICP/MS

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
N0051GUCS (20C0933-01) Water Sampled: 03/06/20 00:00 Received: 03/06/20 12:00												
Aluminum	ND	5.0	10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Antimony	ND	0.20	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Arsenic	ND	0.40	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Barium	ND	0.20	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Beryllium	ND	0.050	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Boron	ND	20	50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Cadmium	ND	0.060	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Chromium	ND	0.50	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Cobalt	ND	0.10	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Copper	ND	0.40	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Iron	ND	10	50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Lead	ND	0.060	0.25	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Manganese	ND	2.0	5.0	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Molybdenum	ND	0.070	0.25	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Nickel	ND	0.30	0.50	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Selenium	ND	0.30	2.0	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Silver	ND	0.050	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Thallium	ND	0.050	0.10	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Vanadium	ND	0.50	1.0	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U
Zinc	ND	4.0	5.0	ug/L	1	AC03951	03/16/20 15:20	03/18/20 21:53	EPA 200.8	MB	1551	U



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- 2.5g Cubitainer
 Project Number: Lot Number N0051GUCS

Reported:
 03/23/20 09:11

Anions by EPA Method 300.0

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
N0051GUCS (20C0933-01) Water Sampled: 03/06/20 00:00 Received: 03/06/20 12:00												
Fluoride	ND	0.020	0.10	mg/L	1	AC03874	03/13/20 14:28	03/13/20 14:28	EPA 300.0	SMS	1551	U
Nitrate as NO3	ND	0.20	1.0	mg/L	1	AC03874	03/13/20 14:28	03/13/20 14:28	EPA 300.0	SMS	1551	T-02, U
Nitrite as NO2	ND	0.20	1.0	mg/L	1	AC03874	03/13/20 14:28	03/13/20 14:28	EPA 300.0	SMS	1551	T-02, U
Sulfate as SO4	ND	0.20	0.50	mg/L	1	AC03874	03/13/20 14:28	03/13/20 14:28	EPA 300.0	SMS	1551	U



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- 2.5g Cubitainer Project Number: Lot Number N0051GUCS	Reported: 03/23/20 09:11
---	--	-----------------------------

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 AC03981 - Metals Digest

Blank (AC03981-BLK1)											
						Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	ND	0.080	1.0	mg/L							U
Magnesium	ND	0.030	1.0	mg/L							U
Potassium	ND	0.090	1.0	mg/L							U
Sodium	ND	0.40	1.0	mg/L							U

LCS (AC03981-BS1)											
						Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	7.98	0.080	1.0	mg/L	8.00		99.8	85-115			
Magnesium	8.12	0.030	1.0	mg/L	8.00		101	85-115			
Potassium	7.13	0.090	1.0	mg/L	7.80		91.5	85-115			
Sodium	8.44	0.40	1.0	mg/L	8.00		105	85-115			

Duplicate (AC03981-DUP1)											
			Source: 20C1308-01			Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	21.1	0.080	1.0	mg/L		20.0			5.69	20	
Magnesium	12.4	0.030	1.0	mg/L		12.2			1.96	20	
Potassium	19.6	0.090	1.0	mg/L		19.6			0.0895	20	
Sodium	97.9	0.40	1.0	mg/L		93.7			4.36	20	

Matrix Spike (AC03981-MS1)											
			Source: 20C1308-01			Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	29.5	0.080	1.0	mg/L	8.00	20.0	119	70-130			
Magnesium	20.7	0.030	1.0	mg/L	8.00	12.2	106	70-130			
Potassium	27.8	0.090	1.0	mg/L	7.80	19.6	106	70-130			
Sodium	103	0.40	1.0	mg/L	8.00	93.7	121	70-130			

Matrix Spike (AC03981-MS2)											
			Source: 20C1289-06			Prepared: 03/16/20 Analyzed: 03/19/20					
Calcium	72.9	0.080	1.0	mg/L	8.00	63.7	114	70-130			
Magnesium	62.3	0.030	1.0	mg/L	8.00	54.2	101	70-130			
Potassium	8.45	0.090	1.0	mg/L	7.80	1.10	94.3	70-130			
Sodium	40.0	0.40	1.0	mg/L	8.00	32.7	91.8	70-130			

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. 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- 2.5g Cubitainer
 Project Number: Lot Number N0051GUCS

Reported:
 03/23/20 09:11

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 AC03981 - Metals Digest

Matrix Spike Dup (AC03981-MSD1)

Source: 20C1308-01

Prepared: 03/16/20 Analyzed: 03/19/20

Calcium	29.0	0.080	1.0	mg/L	8.00	20.0	113	70-130	1.59	20	
Magnesium	20.6	0.030	1.0	mg/L	8.00	12.2	105	70-130	0.418	20	
Potassium	27.5	0.090	1.0	mg/L	7.80	19.6	101	70-130	1.17	20	
Sodium	102	0.40	1.0	mg/L	8.00	93.7	101	70-130	1.61	20	



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- 2.5g Cubitainer Project Number: Lot Number N0051GUCS	Reported: 03/23/20 09:11
---	--	-----------------------------

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 AC03941 - EPA 245.1 Hg Water

Blank (AC03941-BLK1)					Prepared & Analyzed: 03/16/20						
Mercury	ND	0.020	0.020	ug/L							U
LCS (AC03941-BS1)					Prepared & Analyzed: 03/16/20						
Mercury	0.279	0.020	0.020	ug/L	0.250		112	85-115			
Duplicate (AC03941-DUP1)					Source: 20C0918-01 Prepared & Analyzed: 03/16/20						
Mercury	ND	0.020	0.020	ug/L		ND				20	U
Matrix Spike (AC03941-MS1)					Source: 20C0918-01 Prepared & Analyzed: 03/16/20						
Mercury	0.288	0.020	0.020	ug/L	0.250	ND	115	70-130			
Matrix Spike Dup (AC03941-MSD1)					Source: 20C0918-01 Prepared & Analyzed: 03/16/20						
Mercury	0.299	0.020	0.020	ug/L	0.250	ND	120	70-130	3.75	20	

Batch AC03981 - Metals Digest

Blank (AC03981-BLK1)					Prepared: 03/16/20 Analyzed: 03/19/20						
Tin	ND	0.050	0.050	mg/L							U
LCS (AC03981-BS1)					Prepared: 03/16/20 Analyzed: 03/19/20						
Tin	0.199	0.050	0.050	mg/L	0.200		99.5	85-115			
Duplicate (AC03981-DUP1)					Source: 20C1308-01 Prepared: 03/16/20 Analyzed: 03/19/20						
Tin	ND	0.050	0.050	mg/L		ND				20	U
Matrix Spike (AC03981-MS1)					Source: 20C1308-01 Prepared: 03/16/20 Analyzed: 03/19/20						
Tin	0.200	0.050	0.050	mg/L	0.200	ND	100	70-130			

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. 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- 2.5g Cubitainer Project Number: Lot Number N0051GUCS	Reported: 03/23/20 09:11
---	--	-----------------------------

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 AC03981 - Metals Digest

Matrix Spike (AC03981-MS2)		Source: 20C1289-06			Prepared: 03/16/20 Analyzed: 03/19/20						
Tin	0.192	0.050	0.050	mg/L	0.200	ND	95.8	70-130			
Matrix Spike Dup (AC03981-MSD1)		Source: 20C1308-01			Prepared: 03/16/20 Analyzed: 03/19/20						
Tin	0.197	0.050	0.050	mg/L	0.200	ND	98.7	70-130	1.33	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. 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- 2.5g Cubitainer
 Project Number: Lot Number N0051GUCS

Reported:
 03/23/20 09:11

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 AC03951 - EPA 200.8

Blank (AC03951-BLK1)

Prepared: 03/16/20 Analyzed: 03/18/20

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	50	ug/L							U
Cadmium	ND	0.060	0.10	ug/L							U
Chromium	ND	0.50	0.50	ug/L							U
Cobalt	ND	0.10	0.10	ug/L							U
Copper	ND	0.40	0.50	ug/L							U
Iron	ND	10	50	ug/L							U
Lead	ND	0.060	0.25	ug/L							U
Manganese	ND	2.0	5.0	ug/L							U
Molybdenum	ND	0.070	0.25	ug/L							U
Nickel	ND	0.30	0.50	ug/L							U
Selenium	ND	0.30	2.0	ug/L							U
Silver	ND	0.050	0.10	ug/L							U
Thallium	ND	0.050	0.10	ug/L							U
Vanadium	ND	0.50	1.0	ug/L							U
Zinc	ND	4.0	5.0	ug/L							U

LCS (AC03951-BS1)

Prepared: 03/16/20 Analyzed: 03/18/20

Aluminum	524	5.0	10	ug/L	520	101	85-115
Antimony	19.8	0.20	0.50	ug/L	20.0	99.2	85-115
Arsenic	21.6	0.40	0.50	ug/L	20.0	108	85-115
Barium	19.6	0.20	0.50	ug/L	20.0	98.0	85-115
Beryllium	21.9	0.050	0.10	ug/L	20.0	110	85-115
Boron	106	20	50	ug/L	100	106	85-115
Cadmium	20.1	0.060	0.10	ug/L	20.0	101	85-115
Chromium	21.8	0.50	0.50	ug/L	20.0	109	85-115
Cobalt	22.2	0.10	0.10	ug/L	20.0	111	85-115
Copper	20.6	0.40	0.50	ug/L	20.0	103	85-115
Iron	557	10	50	ug/L	520	107	85-115
Lead	21.0	0.060	0.25	ug/L	20.0	105	85-115
Manganese	20.3	2.0	5.0	ug/L	20.0	102	85-115
Molybdenum	20.7	0.070	0.25	ug/L	20.0	104	85-115
Nickel	20.1	0.30	0.50	ug/L	20.0	100	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. 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- 2.5g Cubitainer Project Number: Lot Number N0051GUCS	Reported: 03/23/20 09:11
---	--	-----------------------------

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 AC03951 - EPA 200.8

LCS (AC03951-BS1)

Prepared: 03/16/20 Analyzed: 03/18/20

Selenium	22.2	0.30	2.0	ug/L	20.0		111	85-115			
Silver	19.5	0.050	0.10	ug/L	20.0		97.6	85-115			
Thallium	20.9	0.050	0.10	ug/L	20.0		105	85-115			
Vanadium	21.5	0.50	1.0	ug/L	20.0		107	85-115			
Zinc	95.8	4.0	5.0	ug/L	100		95.8	85-115			

Duplicate (AC03951-DUP1)

Source: 20C1728-01

Prepared: 03/16/20 Analyzed: 03/18/20

Aluminum	ND	20	40	ug/L		ND			20		R-01, U
Antimony	ND	0.80	2.0	ug/L		ND			20		R-01, U
Arsenic	2.82	1.6	2.0	ug/L		3.08			8.75	20	
Barium	117	0.80	2.0	ug/L		117			0.132	20	
Beryllium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Boron	117	80	200	ug/L		114			1.81	20	R-01, J
Cadmium	ND	0.24	0.40	ug/L		ND				20	R-01, U
Chromium	2.89	2.0	2.0	ug/L		3.02			4.31	20	
Cobalt	ND	0.40	0.40	ug/L		ND				20	R-01, U
Copper	167	1.6	2.0	ug/L		167			0.406	20	
Iron	276	40	200	ug/L		275			0.194	20	
Lead	0.555	0.24	1.0	ug/L		0.555			0.0675	20	R-01, J
Manganese	ND	8.0	20	ug/L		ND				20	R-01, U
Molybdenum	0.922	0.28	1.0	ug/L		0.862			6.78	20	R-01, J
Nickel	2.04	1.2	2.0	ug/L		1.95			4.96	20	
Selenium	2.23	1.2	8.0	ug/L		2.24			0.350	20	R-01, J
Silver	ND	0.20	0.40	ug/L		ND				20	R-01, U
Thallium	ND	0.20	0.40	ug/L		ND				20	R-01, U
Vanadium	ND	2.0	4.0	ug/L		ND				20	R-01, U
Zinc	ND	16	20	ug/L		ND				20	R-01, U



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- 2.5g Cubitainer Project Number: Lot Number N0051GUCS	Reported: 03/23/20 09:11
---	--	-----------------------------

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 AC03951 - EPA 200.8

MRL Check (AC03951-MRL1)

Prepared: 03/16/20 Analyzed: 03/20/20

Nickel	0.755	0.30	0.50	ug/L	0.800		94.3	0-200			
--------	-------	------	------	------	-------	--	------	-------	--	--	--

Matrix Spike (AC03951-MS1)

Source: 20C1728-01

Prepared: 03/16/20 Analyzed: 03/18/20

Aluminum	521	20	40	ug/L	520	ND	100	70-130			
Antimony	20.1	0.80	2.0	ug/L	20.0	ND	101	70-130			
Arsenic	24.7	1.6	2.0	ug/L	20.0	3.08	108	70-130			
Barium	136	0.80	2.0	ug/L	20.0	117	94.4	70-130			
Beryllium	21.9	0.20	0.40	ug/L	20.0	ND	110	70-130			
Boron	221	80	200	ug/L	100	114	107	70-130			
Cadmium	20.1	0.24	0.40	ug/L	20.0	ND	100	70-130			
Chromium	24.5	2.0	2.0	ug/L	20.0	3.02	107	70-130			
Cobalt	21.1	0.40	0.40	ug/L	20.0	ND	106	70-130			
Copper	186	1.6	2.0	ug/L	20.0	167	93.3	70-130			
Iron	817	40	200	ug/L	520	275	104	70-130			
Lead	21.1	0.24	1.0	ug/L	20.0	0.555	103	70-130			
Manganese	20.5	8.0	20	ug/L	20.0	ND	103	70-130			
Molybdenum	21.9	0.28	1.0	ug/L	20.0	0.862	105	70-130			
Nickel	20.8	1.2	2.0	ug/L	20.0	1.95	94.0	70-130			
Selenium	24.7	1.2	8.0	ug/L	20.0	2.24	112	70-130			
Silver	19.3	0.20	0.40	ug/L	20.0	ND	96.6	70-130			
Thallium	20.7	0.20	0.40	ug/L	20.0	ND	103	70-130			
Vanadium	22.6	2.0	4.0	ug/L	20.0	ND	113	70-130			
Zinc	93.8	16	20	ug/L	100	ND	93.8	70-130			

Matrix Spike (AC03951-MS2)

Source: 20C1728-02

Prepared: 03/16/20 Analyzed: 03/18/20

Aluminum	516	20	40	ug/L	520	21.6	95.0	70-130			
Antimony	19.7	0.80	2.0	ug/L	20.0	ND	98.3	70-130			
Arsenic	24.5	1.6	2.0	ug/L	20.0	3.03	107	70-130			
Barium	127	0.80	2.0	ug/L	20.0	111	81.6	70-130			
Beryllium	21.1	0.20	0.40	ug/L	20.0	ND	105	70-130			
Boron	199	80	200	ug/L	100	99.8	99.3	70-130			R-01, J
Cadmium	19.5	0.24	0.40	ug/L	20.0	ND	97.5	70-130			
Chromium	22.6	2.0	2.0	ug/L	20.0	ND	113	70-130			
Cobalt	20.7	0.40	0.40	ug/L	20.0	ND	104	70-130			
Copper	274	1.6	2.0	ug/L	20.0	261	65.9	70-130			QM-01
Iron	1090	40	200	ug/L	520	576	99.2	70-130			
Lead	22.5	0.24	1.0	ug/L	20.0	2.05	102	70-130			

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. 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- 2.5g Cubitainer
 Project Number: Lot Number N0051GUCS

Reported:
 03/23/20 09:11

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 AC03951 - EPA 200.8

Matrix Spike (AC03951-MS2)

Source: 20C1728-02

Prepared: 03/16/20 Analyzed: 03/18/20

Manganese	24.5	8.0	20	ug/L	20.0	ND	122	70-130			
Molybdenum	21.8	0.28	1.0	ug/L	20.0	0.928	104	70-130			
Nickel	19.8	1.2	2.0	ug/L	20.0	2.40	86.8	70-130			
Selenium	23.3	1.2	8.0	ug/L	20.0	1.42	109	70-130			
Silver	19.0	0.20	0.40	ug/L	20.0	ND	94.8	70-130			
Thallium	20.8	0.20	0.40	ug/L	20.0	ND	104	70-130			
Vanadium	21.3	2.0	4.0	ug/L	20.0	ND	106	70-130			
Zinc	933	16	20	ug/L	100	873	60.7	70-130			QM-01

Matrix Spike Dup (AC03951-MSD1)

Source: 20C1728-01

Prepared: 03/16/20 Analyzed: 03/18/20

Aluminum	513	20	40	ug/L	520	ND	98.6	70-130	1.65	20	
Antimony	19.9	0.80	2.0	ug/L	20.0	ND	99.5	70-130	1.22	20	
Arsenic	24.4	1.6	2.0	ug/L	20.0	3.08	106	70-130	1.38	20	
Barium	133	0.80	2.0	ug/L	20.0	117	81.0	70-130	1.99	20	
Beryllium	21.4	0.20	0.40	ug/L	20.0	ND	107	70-130	2.54	20	
Boron	221	80	200	ug/L	100	114	106	70-130	0.274	20	
Cadmium	19.5	0.24	0.40	ug/L	20.0	ND	97.5	70-130	2.96	20	
Chromium	23.6	2.0	2.0	ug/L	20.0	3.02	103	70-130	3.90	20	
Cobalt	20.4	0.40	0.40	ug/L	20.0	ND	102	70-130	3.54	20	
Copper	184	1.6	2.0	ug/L	20.0	167	83.8	70-130	1.03	20	
Iron	803	40	200	ug/L	520	275	101	70-130	1.77	20	
Lead	20.9	0.24	1.0	ug/L	20.0	0.555	102	70-130	1.26	20	
Manganese	20.3	8.0	20	ug/L	20.0	ND	102	70-130	1.04	20	
Molybdenum	21.6	0.28	1.0	ug/L	20.0	0.862	104	70-130	1.34	20	
Nickel	19.8	1.2	2.0	ug/L	20.0	1.95	89.5	70-130	4.48	20	
Selenium	23.9	1.2	8.0	ug/L	20.0	2.24	108	70-130	3.32	20	
Silver	18.9	0.20	0.40	ug/L	20.0	ND	94.4	70-130	2.31	20	
Thallium	20.7	0.20	0.40	ug/L	20.0	ND	103	70-130	0.0758	20	
Vanadium	21.7	2.0	4.0	ug/L	20.0	ND	109	70-130	4.21	20	
Zinc	92.5	16	20	ug/L	100	ND	92.5	70-130	1.47	20	



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- 2.5g Cubitainer Project Number: Lot Number N0051GUCS	Reported: 03/23/20 09:11
---	--	-----------------------------

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 AC03874 - EPA 300.0

Blank (AC03874-BLK1)											Prepared & Analyzed: 03/13/20	
Sulfate as SO4	ND	0.20	0.50	mg/L							U	
Nitrite as NO2	ND	0.20	1.0	mg/L							U	
Nitrate as NO3	ND	0.20	1.0	mg/L							U	
Fluoride	ND	0.020	0.10	mg/L							U	

LCS (AC03874-BS1)											Prepared & Analyzed: 03/13/20	
Fluoride	5.74	0.020	0.10	mg/L	5.56		103	90-110				
Sulfate as SO4	22.3	0.20	0.50	mg/L	22.2		100	90-110				
Nitrite as NO2	18.1	0.20	1.0	mg/L	18.2		99.5	90-110				
Nitrate as NO3	25	0.20	1.0	mg/L	24.7		102	90-110				

Calibration Check (AC03874-CCV1)											Prepared & Analyzed: 03/13/20	
Nitrate as NO3	13	0.20	1.0	mg/L	13.4		96.2	0-200				
Nitrite as NO2	10.4	0.20	1.0	mg/L	9.96		104	0-200				
Sulfate as SO4	14.9	0.20	0.50	mg/L	15.2		98.1	0-200				
Fluoride	2.05	0.020	0.10	mg/L	2.02		102	0-200				

Calibration Check (AC03874-CCV2)											Prepared & Analyzed: 03/13/20	
Fluoride	2.05	0.020	0.10	mg/L	2.02		102	0-200				
Nitrate as NO3	13	0.20	1.0	mg/L	13.4		96.3	0-200				
Nitrite as NO2	10.4	0.20	1.0	mg/L	9.96		104	0-200				
Sulfate as SO4	14.9	0.20	0.50	mg/L	15.2		98.2	0-200				

Calibration Check (AC03874-CCV3)											Prepared & Analyzed: 03/13/20	
Nitrite as NO2	10.5	0.20	1.0	mg/L	9.96		105	0-200				
Sulfate as SO4	14.9	0.20	0.50	mg/L	15.2		98.6	0-200				
Fluoride	2.07	0.020	0.10	mg/L	2.02		102	0-200				
Nitrate as NO3	13	0.20	1.0	mg/L	13.4		96.7	0-200				

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. 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- 2.5g Cubitainer Project Number: Lot Number N0051GUCS	Reported: 03/23/20 09:11
---	--	-----------------------------

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 AC03874 - EPA 300.0

Duplicate (AC03874-DUP1)		Source: 20C1664-01			Prepared & Analyzed: 03/13/20						
Nitrite as NO2	ND	0.20	1.0	mg/L		ND				20	U
Fluoride	0.122	0.020	0.10	mg/L		0.122			0.00	20	
Nitrate as NO3	24	0.20	1.0	mg/L		24			0.0210	20	
Sulfate as SO4	3.96	0.20	0.50	mg/L		3.98			0.378	20	

Matrix Spike (AC03874-MS1)		Source: 20C1664-01			Prepared & Analyzed: 03/13/20						
Nitrate as NO3	46	2.0	10	mg/L	24.7	24	87.9	80-120			
Nitrite as NO2	17.1	2.0	10	mg/L	18.2	ND	94.1	80-120			
Fluoride	5.28	0.20	1.0	mg/L	5.56	ND	95.0	80-120			
Sulfate as SO4	24.2	2.0	5.0	mg/L	22.2	3.98	90.8	80-120			

Matrix Spike (AC03874-MS2)		Source: 20C1791-01			Prepared & Analyzed: 03/13/20						
Fluoride	5.28	0.20	1.0	mg/L	5.56	ND	95.0	80-120			
Nitrate as NO3	25	2.0	10	mg/L	24.7	2.2	93.9	80-120			
Nitrite as NO2	17.4	2.0	10	mg/L	18.2	ND	95.7	80-120			
Sulfate as SO4	21.9	2.0	5.0	mg/L	22.2	ND	98.6	80-120			

Matrix Spike Dup (AC03874-MSD1)		Source: 20C1664-01			Prepared & Analyzed: 03/13/20						
Fluoride	5.28	0.20	1.0	mg/L	5.56	ND	95.0	80-120	0.00	20	
Nitrate as NO3	45	2.0	10	mg/L	24.7	24	87.1	80-120	0.465	20	
Sulfate as SO4	24.1	2.0	5.0	mg/L	22.2	3.98	90.5	80-120	0.322	20	
Nitrite as NO2	17.2	2.0	10	mg/L	18.2	ND	94.3	80-120	0.213	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. 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- 2.5g Cubitainer
Project Number: Lot Number N0051GUCS

Reported:
03/23/20 09:11

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- 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

