



*Alpha*

Alpha Analytical Laboratories, Inc.

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

19 January 2022

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 1 Liter BRA Buttress

Work Order: 22A0295

Enclosed are the results of analyses for samples received by the laboratory on 01/04/22 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](mailto:clientservices@alpha-labs.com)  
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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U2003CUFS

Reported:  
01/19/22 09:25

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: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510 | ELAP# 3055

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
U2003CUFS - 01	22A0295-01	Water	01/04/22 00:00	01/04/22 08:00
U2003CUFS - 02	22A0295-02	Water	01/04/22 00:00	01/04/22 08:00
U2003CUFS - 03	22A0295-03	Water	01/04/22 00:00	01/04/22 08:00
U2003CUFS - 04	22A0295-04	Water	01/04/22 00:00	01/04/22 08:00
U2003CUFS - 05	22A0295-05	Water	01/04/22 00:00	01/04/22 08:00



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 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 1 Liter BRA Buttress  
 Project Number: Lot Number U2003CUFS

Reported:  
 01/19/22 09:25

### Organochlorine Pesticides and PCBs by EPA Method 608.3

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>U2003CUFS - 01 (22A0295-01) Water</b> <b>Sampled: 01/04/22 00:00</b> <b>Received: 01/04/22 08:00</b>												
Aldrin	ND	0.0020	0.0050	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
alpha-BHC	ND	0.0040	0.010	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
beta-BHC	ND	0.0040	0.0050	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
delta-BHC	ND	0.0020	0.0050	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
gamma-BHC (Lindane)	ND	0.0040	0.010	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Chlordane (tech)	ND	0.010	0.050	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
4,4'-DDD	ND	0.0050	0.020	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
4,4'-DDE	ND	0.0040	0.020	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
4,4'-DDT	ND	0.0030	0.010	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Dieldrin	ND	0.0050	0.010	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Endosulfan I	ND	0.0040	0.010	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Endosulfan II	ND	0.0050	0.010	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Endosulfan sulfate	ND	0.0030	0.050	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Endrin	ND	0.0080	0.010	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Endrin aldehyde	ND	0.0040	0.040	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Heptachlor	ND	0.0050	0.010	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Heptachlor epoxide	ND	0.0090	0.010	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Methoxychlor	ND	0.010	0.50	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Toxaphene	ND	0.20	0.50	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
PCB-1016	ND	0.080	0.50	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
PCB-1221	ND	0.20	0.50	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
PCB-1232	ND	0.10	0.50	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
PCB-1242	ND	0.040	0.50	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
PCB-1248	ND	0.060	0.50	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
PCB-1254	ND	0.040	0.50	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
PCB-1260	ND	0.040	0.50	ug/L	1	AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	U
Surrogate: Dibutylchlorodate		77.8 %	10-147			AA23395	01/05/22 07:00	01/07/22 02:33	EPA 608.3	MCB	1551	



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 1 Liter BRA Buttress  
 Project Number: Lot Number U2003CUFS

Reported:  
 01/19/22 09:25

**Chlorinated Herbicides by EPA Method 8151A**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>U2003CUFS - 03 (22A0295-03) Water</b> <b>Sampled: 01/04/22 00:00</b> <b>Received: 01/04/22 08:00</b>												
2,4-D	ND	0.80	0.80	ug/L	1	AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	U
2,4-DB	ND	0.80	3.2	ug/L	1	AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	U
2,4,5-T	ND	0.16	0.40	ug/L	1	AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	U
2,4,5-TP (Silvex)	ND	0.16	0.40	ug/L	1	AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	U
Dalapon	ND	1.6	4.8	ug/L	1	AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	U
Dicamba	ND	0.080	0.32	ug/L	1	AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	U
Dinoseb	ND	0.16	0.80	ug/L	1	AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	U
Dichlorprop	ND	0.32	0.80	ug/L	1	AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	U
Pentachlorophenol	ND	0.16	0.16	ug/L	1	AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	U
Surrogate: DCAA		104 %	62-124			AA23468	01/05/22 10:43	01/07/22 20:55	EPA 8151A	MCB	1551	



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 1 Liter BRA Buttress  
 Project Number: Lot Number U2003CUFS

Reported:  
 01/19/22 09:25

### Organophosphorus Compounds by EPA Method 8141A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>U2003CUFS - 02 (22A0295-02) Water Sampled: 01/04/22 00:00 Received: 01/04/22 08:00</b>												
Azinphos ethyl	ND	1.0	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Azinphos methyl	ND	0.40	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Bolstar	ND	0.30	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Chlorpyrifos	ND	0.70	1.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Coumaphos	ND	0.80	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Demeton-o	ND	0.20	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Demeton-s	ND	0.30	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Diazinon	ND	0.30	0.50	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Dichlorvos	ND	0.40	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Dimethoate	ND	1.0	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Disulfoton	ND	0.30	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
EPN	ND	0.50	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Ethion	ND	0.80	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Ethoprop (Ethoprophos)	ND	0.40	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Fensulfothion	ND	0.80	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Fenthion	ND	0.50	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Malathion	ND	0.80	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Mevinphos	ND	0.80	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Parathion	ND	0.90	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Parathion-methyl	ND	0.40	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Phorate	ND	0.40	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Ronnel	ND	0.30	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Stirofos	ND	0.30	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Thionazin	ND	1.0	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Tokuthion (Prothiofos)	ND	0.40	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Trichloronate	ND	0.40	2.0	ug/L	1	AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	U
Surrogate: Tributyl phosphate		96.2 %		37-115		AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	
Surrogate: Triphenyl phosphate		95.4 %		44-145		AA23396	01/05/22 07:00	01/08/22 12:03	EPA 8141A	MCB	1551	



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
<b>U2003CUFS - 04 (22A0295-04) Water Sampled: 01/04/22 00:00 Received: 01/04/22 08:00</b>												
Acenaphthene	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Acenaphthylene	ND	0.50	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Anthracene	ND	0.40	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Benzo (a) anthracene	ND	0.40	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Benzo (a) pyrene	ND	0.50	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Benzo (b) fluoranthene	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Benzo (g,h,i) perylene	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Benzo (k) fluoranthene	ND	0.50	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Benzyl alcohol	ND	3.0	20	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Bis(2-chloroethoxy)methane	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Benzidine	ND	5.0	50	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Bis(2-chloroethyl)ether	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Bis(2-chloroisopropyl)ether	ND	1.0	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Bis(2-ethylhexyl)phthalate	ND	3.0	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
4-Bromophenyl phenyl ether	ND	1.0	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Butyl benzyl phthalate	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
4-Chloro-3-methylphenol	ND	1.0	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
4-Chloroaniline	ND	1.0	20	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2-Chloronaphthalene	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2-Chlorophenol	ND	0.70	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
4-Chlorophenyl phenyl ether	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Chrysene	ND	0.80	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Di-n-butyl phthalate	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Di-n-octyl phthalate	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Dibenz (a,h) anthracene	ND	0.80	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Dibenzofuran	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
1,2-Dichlorobenzene	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
1,3-Dichlorobenzene	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
1,4-Dichlorobenzene	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
3,3'-Dichlorobenzidine	ND	5.0	50	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2,4-Dichlorophenol	ND	0.70	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Diethyl phthalate	ND	0.30	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Dimethyl phthalate	ND	0.80	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2,4-Dimethylphenol	ND	1.0	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
4,6-Dinitro-2-methylphenol	ND	3.0	50	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2,4-Dinitrophenol	ND	5.0	50	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2,4-Dinitrotoluene	ND	0.80	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U

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- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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### Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
<b>U2003CUFS - 04 (22A0295-04) Water Sampled: 01/04/22 00:00 Received: 01/04/22 08:00</b>												
2,6-Dinitrotoluene	ND	0.80	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
1,2-Diphenylhydrazine	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Fluoranthene	ND	0.80	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Fluorene	ND	0.80	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Hexachlorobenzene	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Hexachlorobutadiene	ND	0.80	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Hexachlorocyclopentadiene	ND	4.0	15	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Hexachloroethane	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Indeno (1,2,3-cd) pyrene	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Isophorone	ND	0.30	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2-Methylnaphthalene	ND	1.0	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2-Methylphenol (o-cresol)	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
3 & 4-Methylphenol (m & p-cresol)	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
N-Nitrosodi-n-propylamine	ND	0.80	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
N-Nitrosodimethylamine	ND	0.30	5.0	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
N-Nitrosodiphenylamine	ND	1.0	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Naphthalene	ND	0.70	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2-Nitroaniline	ND	1.0	50	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
3-Nitroaniline	ND	5.0	50	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
4-Nitroaniline	ND	4.0	50	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Nitrobenzene	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2-Nitrophenol	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
4-Nitrophenol	ND	3.0	50	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Pentachlorophenol	ND	4.0	50	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Phenanthrene	ND	0.90	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Phenol	ND	0.50	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Pyrene	ND	0.40	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
1,2,4-Trichlorobenzene	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2,4,5-Trichlorophenol	ND	0.60	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
2,4,6-Trichlorophenol	ND	0.70	10	ug/L	1	AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	U
Surrogate: 2-Fluorobiphenyl		95.4 %	30-120			AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	
Surrogate: 2-Fluorophenol		16.2 %	10-120			AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	
Surrogate: Nitrobenzene-d5		101 %	15-150			AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	
Surrogate: p-Terphenyl-d14		110 %	35-150			AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	
Surrogate: Phenol-d6		11.6 %	10-120			AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	
Surrogate: 2,4,6-Tribromophenol		29.7 %	10-168			AA23513	01/06/22 12:29	01/10/22 11:50	EPA 8270C	AVV	2303	

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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 1 Liter BRA Buttress  
 Project Number: Lot Number U2003CUFS

Reported:  
 01/19/22 09:25

**Semivolatile Organic Compounds by EPA Method 8270C SIM**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>U2003CUFS - 05 (22A0295-05) Water Sampled: 01/04/22 00:00 Received: 01/04/22 08:00</b>												
Acenaphthene	ND	0.00060	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Acenaphthylene	ND	0.00050	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Anthracene	ND	0.00060	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Benzo (a) anthracene	ND	0.0030	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Benzo (a) pyrene	ND	0.0030	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Benzo (b) fluoranthene	ND	0.0020	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Benzo (g,h,i) perylene	ND	0.0010	0.050	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Benzo (k) fluoranthene	ND	0.0010	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Chrysene	ND	0.00080	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Dibenz (a,h) anthracene	ND	0.0020	0.10	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Fluoranthene	ND	0.00060	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Fluorene	ND	0.00030	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Indeno (1,2,3-cd) pyrene	ND	0.0010	0.050	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Naphthalene	ND	0.00090	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Phenanthrene	ND	0.00030	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Pyrene	ND	0.00080	0.010	ug/L	1	AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	U
Surrogate: 2-Fluorobiphenyl		70.2 %	50-120			AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	
Surrogate: p-Terphenyl-d14		90.5 %	50-150			AA23647	01/07/22 10:59	01/10/22 23:00	EPA 8270SIM	AVV	2303	





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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 1 Liter BRA Buttress  
 Project Number: Lot Number U2003CUFS

Reported:  
 01/19/22 09:25

**Organochlorine Pesticides and PCBs by EPA Method 608.3 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23395 - SVOAs in Water GC**

**Blank (AA23395-BLK1)**

Prepared: 01/05/22 Analyzed: 01/07/22

Aldrin	ND	0.0020	0.0050	ug/L							U
alpha-BHC	ND	0.0040	0.010	ug/L							U
beta-BHC	ND	0.0040	0.0050	ug/L							U
delta-BHC	ND	0.0020	0.0050	ug/L							U
gamma-BHC (Lindane)	ND	0.0040	0.010	ug/L							U
Chlordane (tech)	ND	0.010	0.050	ug/L							U
4,4'-DDD	ND	0.0050	0.020	ug/L							U
4,4'-DDE	ND	0.0040	0.020	ug/L							U
4,4'-DDT	ND	0.0030	0.010	ug/L							U
Dieldrin	ND	0.0050	0.010	ug/L							U
Endosulfan I	ND	0.0040	0.010	ug/L							U
Endosulfan II	ND	0.0050	0.010	ug/L							U
Endosulfan sulfate	ND	0.0030	0.050	ug/L							U
Endrin	ND	0.0080	0.010	ug/L							U
Endrin aldehyde	ND	0.0040	0.040	ug/L							U
Heptachlor	ND	0.0050	0.010	ug/L							U
Heptachlor epoxide	ND	0.0090	0.010	ug/L							U
Methoxychlor	ND	0.010	0.50	ug/L							U
Toxaphene	ND	0.20	0.50	ug/L							U
PCB-1016	ND	0.080	0.50	ug/L							U
PCB-1221	ND	0.20	0.50	ug/L							U
PCB-1232	ND	0.10	0.50	ug/L							U
PCB-1242	ND	0.040	0.50	ug/L							U
PCB-1248	ND	0.060	0.50	ug/L							U
PCB-1254	ND	0.040	0.50	ug/L							U
PCB-1260	ND	0.040	0.50	ug/L							U
Surrogate: Dibutylchlorodate	0.226			ug/L	0.455		49.7	10-147			



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Organochlorine Pesticides and PCBs by EPA Method 608.3 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23395 - SVOAs in Water GC**

**LCS (AA23395-BS1)**

Prepared: 01/05/22 Analyzed: 01/07/22

Aldrin	0.173	0.0020	0.0050	ug/L	0.240		71.9	42-140			
alpha-BHC	0.219	0.0040	0.010	ug/L	0.240		91.3	37-140			
beta-BHC	0.254	0.0040	0.0050	ug/L	0.240		106	17-147			
delta-BHC	0.267	0.0020	0.0050	ug/L	0.240		111	19-140			
gamma-BHC (Lindane)	0.241	0.0040	0.010	ug/L	0.240		101	32-140			
4,4'-DDE	0.226	0.0040	0.020	ug/L	0.240		94.1	30-145			
4,4'-DDD	0.178	0.0050	0.020	ug/L	0.240		74.1	25-160			
4,4'-DDT	0.232	0.0030	0.010	ug/L	0.240		96.6	31-141			
Dieldrin	0.231	0.0050	0.010	ug/L	0.240		96.2	36-146			
Endosulfan I	0.232	0.0040	0.010	ug/L	0.240		96.5	45-153			
Endosulfan II	0.216	0.0050	0.010	ug/L	0.240		89.8	0-202			
Endosulfan sulfate	0.234	0.0030	0.050	ug/L	0.240		97.4	26-144			
Endrin	0.281	0.0080	0.010	ug/L	0.240		117	30-147			
Endrin aldehyde	0.230	0.0040	0.040	ug/L	0.240		95.7	45-140			
Heptachlor	0.229	0.0050	0.010	ug/L	0.240		95.4	34-140			
Heptachlor epoxide	0.234	0.0090	0.010	ug/L	0.240		97.3	37-142			
Methoxychlor	0.233	0.010	0.50	ug/L	0.240		97.0	45-140			J
Surrogate: Dibutylchloroendate	0.420			ug/L	0.455		92.3	10-147			

**LCS (AA23395-BS2)**

Prepared: 01/05/22 Analyzed: 01/06/22

PCB-1016	1.48	0.080	0.50	ug/L	2.00		74.0	50-140			
PCB-1260	1.57	0.040	0.50	ug/L	2.00		78.5	8-140			



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Chlorinated Herbicides by EPA Method 8151A - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23468 - Herbicides**

<b>Blank (AA23468-BLK1)</b>		Prepared: 01/05/22 Analyzed: 01/07/22									
2,4-D	ND	0.80	0.80	ug/L							U
2,4-DB	ND	0.80	3.2	ug/L							U
2,4,5-T	ND	0.16	0.40	ug/L							U
2,4,5-TP (Silvex)	ND	0.16	0.40	ug/L							U
Dalapon	ND	1.6	4.8	ug/L							U
Dicamba	ND	0.080	0.32	ug/L							U
Dinoseb	ND	0.16	0.80	ug/L							U
Dichlorprop	ND	0.32	0.80	ug/L							U
Pentachlorophenol	ND	0.16	0.16	ug/L							U
Surrogate: DCAA	11.5			ug/L	11.5		100	62-124			

<b>Matrix Spike (AA23468-MS1)</b>		<b>Source: 21L3875-01</b>		Prepared: 01/05/22 Analyzed: 01/07/22								
2,4-D	9.82	0.80	0.80	ug/L	10.6	ND	93.0	70-130				
2,4-DB	14.7	0.80	3.2	ug/L	14.1	ND	104	70-130				
2,4,5-T	1.63	0.16	0.40	ug/L	1.76	ND	92.8	70-130				
2,4,5-TP (Silvex)	1.62	0.16	0.40	ug/L	1.76	ND	92.1	70-130				
Dalapon	23.0	1.6	4.8	ug/L	22.9	ND	101	70-130				
Dicamba	1.71	0.080	0.32	ug/L	1.76	ND	97.3	70-130				
Dinoseb	3.35	0.16	0.80	ug/L	3.52	ND	95.0	70-130				
Dichlorprop	5.73	0.32	0.80	ug/L	5.28	ND	108	70-130				
Pentachlorophenol	1.28	0.16	0.16	ug/L	1.32	ND	97.1	70-130				
Surrogate: DCAA	11.7			ug/L	11.5		102	62-124				

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Organophosphorus Compounds by EPA Method 8141A - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23396 - SVOAs in Water GC**

**Blank (AA23396-BLK1)**

Prepared: 01/05/22 Analyzed: 01/08/22

Azinphos ethyl	ND	1.0	2.0	ug/L							U
Azinphos methyl	ND	0.40	2.0	ug/L							U
Bolstar	ND	0.30	2.0	ug/L							U
Chlorpyrifos	ND	0.70	1.0	ug/L							U
Coumaphos	ND	0.80	2.0	ug/L							U
Demeton-o	ND	0.20	2.0	ug/L							U
Demeton-s	ND	0.30	2.0	ug/L							U
Diazinon	ND	0.30	0.50	ug/L							U
Dichlorvos	ND	0.40	2.0	ug/L							U
Dimethoate	ND	1.0	2.0	ug/L							U
Disulfoton	ND	0.30	2.0	ug/L							U
EPN	ND	0.50	2.0	ug/L							U
Ethion	ND	0.80	2.0	ug/L							U
Ethoprop (Ethoprophos)	ND	0.40	2.0	ug/L							U
Fensulfothion	ND	0.80	2.0	ug/L							U
Fenthion	ND	0.50	2.0	ug/L							U
Malathion	ND	0.80	2.0	ug/L							U
Mevinphos	ND	0.80	2.0	ug/L							U
Parathion	ND	0.90	2.0	ug/L							U
Parathion-methyl	ND	0.40	2.0	ug/L							U
Phorate	ND	0.40	2.0	ug/L							U
Ronnel	ND	0.30	2.0	ug/L							U
Stirofos	ND	0.30	2.0	ug/L							U
Thionazin	ND	1.0	2.0	ug/L							U
Tokuthion (Prothiofos)	ND	0.40	2.0	ug/L							U
Trichloronate	ND	0.40	2.0	ug/L							U
Surrogate: Tributyl phosphate	1.36			ug/L	2.00		67.8	37-115			
Surrogate: Triphenyl phosphate	1.19			ug/L	2.00		59.5	44-145			



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Organophosphorus Compounds by EPA Method 8141A - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23396 - SVOAs in Water GC**

**LCS (AA23396-BS1)**

Prepared: 01/05/22 Analyzed: 01/08/22

Azinphos ethyl	1.45	1.0	2.0	ug/L	2.00		72.6	44-154			J
Azinphos methyl	1.49	0.40	2.0	ug/L	2.00		74.3	42-147			J
Bolstar	1.50	0.30	2.0	ug/L	2.00		75.0	35-144			J
Chlorpyrifos	1.36	0.70	1.0	ug/L	2.00		67.8	50-134			J
Coumaphos	1.60	0.80	2.0	ug/L	2.00		79.8	47-152			J
Demeton-o	0.563	0.20	2.0	ug/L	0.750		75.1	18-128			J
Demeton-s	0.940	0.30	2.0	ug/L	1.25		75.2	43-125			J
Diazinon	1.63	0.30	0.50	ug/L	2.00		81.3	50-121			J
Dichlorvos	1.85	0.40	2.0	ug/L	2.00		92.3	77-143			J
Dimethoate	1.34	1.0	2.0	ug/L	2.00		67.1	37-133			J
Disulfoton	1.37	0.30	2.0	ug/L	2.00		68.3	50-119			J
EPN	1.42	0.50	2.0	ug/L	2.00		71.0	55-140			J
Ethion	1.50	0.80	2.0	ug/L	2.00		75.2	38-137			J
Ethoprop (Ethoprophos)	1.42	0.40	2.0	ug/L	2.00		70.8	67-130			J
Fensulfothion	1.60	0.80	2.0	ug/L	2.00		79.8	35-157			J
Fenthion	1.32	0.50	2.0	ug/L	2.00		66.1	56-125			J
Malathion	1.46	0.80	2.0	ug/L	2.00		73.0	39-127			J
Mevinphos	1.58	0.80	2.0	ug/L	2.00		78.9	58-125			J
Parathion	1.46	0.90	2.0	ug/L	2.00		73.0	33-137			J
Parathion-methyl	1.38	0.40	2.0	ug/L	2.00		69.1	52-134			J
Phorate	1.48	0.40	2.0	ug/L	2.00		73.9	58-119			J
Ronnel	1.58	0.30	2.0	ug/L	2.00		78.8	41-135			J
Stirofos	1.52	0.30	2.0	ug/L	2.00		76.1	34-151			J
Thionazin	1.41	1.0	2.0	ug/L	2.00		70.4	60-118			J
Tokuthion (Prothiofos)	1.36	0.40	2.0	ug/L	2.00		68.2	41-136			J
Trichloronate	1.33	0.40	2.0	ug/L	2.00		66.7	36-146			J
Surrogate: Tributyl phosphate	1.78			ug/L	2.00		89.1	37-115			
Surrogate: Triphenyl phosphate	1.71			ug/L	2.00		85.3	44-145			



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23513 - NB EPA 3510B Water**

**Blank (AA23513-BLK1)**

Prepared: 01/06/22 Analyzed: 01/10/22

Acenaphthene	ND	0.60	10	ug/L							U
Acenaphthylene	ND	0.50	10	ug/L							U
Anthracene	ND	0.40	10	ug/L							U
Benzo (a) anthracene	ND	0.40	10	ug/L							U
Benzo (a) pyrene	ND	0.50	10	ug/L							U
Benzo (b) fluoranthene	ND	0.60	10	ug/L							U
Benzo (g,h,i) perylene	ND	0.90	10	ug/L							U
Benzo (k) fluoranthene	ND	0.50	10	ug/L							U
Benzyl alcohol	ND	3.0	20	ug/L							U
Bis(2-chloroethoxy)methane	ND	0.90	10	ug/L							U
Bis(2-chloroethyl)ether	ND	0.90	10	ug/L							U
Benzidine	ND	5.0	50	ug/L							U
Bis(2-chloroisopropyl)ether	ND	1.0	10	ug/L							U
Bis(2-ethylhexyl)phthalate	ND	3.0	10	ug/L							U
4-Bromophenyl phenyl ether	ND	1.0	10	ug/L							U
Butyl benzyl phthalate	ND	0.60	10	ug/L							U
4-Chloro-3-methylphenol	ND	1.0	10	ug/L							U
4-Chloroaniline	ND	1.0	20	ug/L							U
2-Chloronaphthalene	ND	0.60	10	ug/L							U
2-Chlorophenol	ND	0.70	10	ug/L							U
4-Chlorophenyl phenyl ether	ND	0.90	10	ug/L							U
Chrysene	ND	0.80	10	ug/L							U
Di-n-butyl phthalate	ND	0.90	10	ug/L							U
Di-n-octyl phthalate	ND	0.60	10	ug/L							U
Dibenz (a,h) anthracene	ND	0.80	10	ug/L							U
Dibenzofuran	ND	0.90	10	ug/L							U
1,2-Dichlorobenzene	ND	0.60	10	ug/L							U
1,3-Dichlorobenzene	ND	0.60	10	ug/L							U
1,4-Dichlorobenzene	ND	0.60	10	ug/L							U
3,3'-Dichlorobenzidine	ND	5.0	50	ug/L							U
2,4-Dichlorophenol	ND	0.70	10	ug/L							U
Diethyl phthalate	ND	0.30	10	ug/L							U
Dimethyl phthalate	ND	0.80	10	ug/L							U
2,4-Dimethylphenol	ND	1.0	10	ug/L							U
4,6-Dinitro-2-methylphenol	ND	3.0	50	ug/L							U
2,4-Dinitrophenol	ND	5.0	50	ug/L							U

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23513 - NB EPA 3510B Water**

**Blank (AA23513-BLK1)**

Prepared: 01/06/22 Analyzed: 01/10/22

2,4-Dinitrotoluene	ND	0.80	10	ug/L							U
2,6-Dinitrotoluene	ND	0.80	10	ug/L							U
1,2-Diphenylhydrazine	ND	0.60	10	ug/L							U
Fluoranthene	ND	0.80	10	ug/L							U
Fluorene	ND	0.80	10	ug/L							U
Hexachlorobenzene	ND	0.90	10	ug/L							U
Hexachlorobutadiene	ND	0.80	10	ug/L							U
Hexachlorocyclopentadiene	ND	4.0	15	ug/L							U
Hexachloroethane	ND	0.60	10	ug/L							U
Indeno (1,2,3-cd) pyrene	ND	0.60	10	ug/L							U
Isophorone	ND	0.30	10	ug/L							U
2-Methylnaphthalene	ND	1.0	10	ug/L							U
2-Methylphenol (o-cresol)	ND	0.60	10	ug/L							U
3 & 4-Methylphenol (m & p-cresol)	ND	0.60	10	ug/L							U
N-Nitrosodi-n-propylamine	ND	0.80	10	ug/L							U
N-Nitrosodimethylamine	ND	0.30	5.0	ug/L							U
N-Nitrosodiphenylamine	ND	1.0	10	ug/L							U
Naphthalene	ND	0.70	10	ug/L							U
2-Nitroaniline	ND	1.0	50	ug/L							U
3-Nitroaniline	ND	5.0	50	ug/L							U
Nitrobenzene	ND	0.90	10	ug/L							U
4-Nitroaniline	ND	4.0	50	ug/L							U
2-Nitrophenol	ND	0.90	10	ug/L							U
4-Nitrophenol	ND	3.0	50	ug/L							U
Pentachlorophenol	ND	4.0	50	ug/L							U
Phenanthrene	ND	0.90	10	ug/L							U
Phenol	ND	0.50	10	ug/L							U
Pyrene	ND	0.40	10	ug/L							U
1,2,4-Trichlorobenzene	ND	0.60	10	ug/L							U
2,4,5-Trichlorophenol	ND	0.60	10	ug/L							U
2,4,6-Trichlorophenol	ND	0.70	10	ug/L							U
Surrogate: 2-Fluorobiphenyl	46.5			ug/L	50.0		93.0	30-120			
Surrogate: 2-Fluorophenol	9.90			ug/L	50.0		19.8	10-120			
Surrogate: Nitrobenzene-d5	46.0			ug/L	50.0		92.0	15-150			
Surrogate: p-Terphenyl-d14	48.9			ug/L	50.0		97.9	35-150			
Surrogate: Phenol-d6	5.50			ug/L	50.0		11.0	10-120			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23513 - NB EPA 3510B Water**

**Blank (AA23513-BLK1)** Prepared: 01/06/22 Analyzed: 01/10/22

<i>Surrogate: 2,4,6-Tribromophenol</i>	34.7			ug/L	50.0		69.4	10-168			
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**LCS (AA23513-BS1)** Prepared: 01/06/22 Analyzed: 01/10/22

Acenaphthene	23.0	0.60	10	ug/L	25.0		92.2	50-135			
4-Chloro-3-methylphenol	46.3	1.0	10	ug/L	50.0		92.6	40-130			
2-Chlorophenol	48.9	0.70	10	ug/L	50.0		97.8	35-135			
1,4-Dichlorobenzene	22.0	0.60	10	ug/L	25.0		88.0	25-120			
2,4-Dinitrotoluene	18.6	0.80	10	ug/L	25.0		74.3	45-130			
N-Nitrosodi-n-propylamine	21.6	0.80	10	ug/L	25.0		86.3	20-135			
4-Nitrophenol	14.2	3.0	50	ug/L	50.0		28.4	10-135			J
Pentachlorophenol	65.6	4.0	50	ug/L	50.0		131	20-150			
Phenol	13.3	0.50	10	ug/L	50.0		26.6	10-130			
Pyrene	25.4	0.40	10	ug/L	25.0		101	50-150			
1,2,4-Trichlorobenzene	22.3	0.60	10	ug/L	25.0		89.2	30-130			
<i>Surrogate: 2-Fluorobiphenyl</i>	59.0			ug/L	50.0		118	30-120			
<i>Surrogate: 2-Fluorophenol</i>	30.0			ug/L	50.0		60.0	10-120			
<i>Surrogate: Nitrobenzene-d5</i>	58.8			ug/L	50.0		118	15-150			
<i>Surrogate: p-Terphenyl-d14</i>	65.7			ug/L	50.0		131	35-150			
<i>Surrogate: Phenol-d6</i>	18.5			ug/L	50.0		37.0	10-120			
<i>Surrogate: 2,4,6-Tribromophenol</i>	60.3			ug/L	50.0		121	10-168			

**LCS Dup (AA23513-BSD1)** Prepared: 01/06/22 Analyzed: 01/10/22

Acenaphthene	21.8	0.60	10	ug/L	25.0		87.4	50-135	5.32	25	
4-Chloro-3-methylphenol	40.3	1.0	10	ug/L	50.0		80.5	40-130	13.9	35	
2-Chlorophenol	41.9	0.70	10	ug/L	50.0		83.8	35-135	15.5	35	
1,4-Dichlorobenzene	20.4	0.60	10	ug/L	25.0		81.4	25-120	7.75	40	
2,4-Dinitrotoluene	17.7	0.80	10	ug/L	25.0		70.9	45-130	4.72	30	
N-Nitrosodi-n-propylamine	13.7	0.80	10	ug/L	25.0		54.9	20-135	44.5	35	QL-04
4-Nitrophenol	15.2	3.0	50	ug/L	50.0		30.4	10-135	6.76	60	J
Pentachlorophenol	61.7	4.0	50	ug/L	50.0		123	20-150	6.07	45	
Phenol	10.5	0.50	10	ug/L	50.0		20.9	10-130	23.6	35	
Pyrene	22.3	0.40	10	ug/L	25.0		89.0	50-150	13.1	35	
1,2,4-Trichlorobenzene	20.7	0.60	10	ug/L	25.0		82.7	30-130	7.52	34	
<i>Surrogate: 2-Fluorobiphenyl</i>	32.3			ug/L	50.0		64.5	30-120			
<i>Surrogate: 2-Fluorophenol</i>	13.4			ug/L	50.0		26.8	10-120			
<i>Surrogate: Nitrobenzene-d5</i>	29.4			ug/L	50.0		58.9	15-150			
<i>Surrogate: p-Terphenyl-d14</i>	35.6			ug/L	50.0		71.3	35-150			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23513 - NB EPA 3510B Water**

**LCS Dup (AA23513-BSD1)**

Prepared: 01/06/22 Analyzed: 01/10/22

Surrogate: Phenol-d6	9.99			ug/L	50.0		20.0	10-120			
Surrogate: 2,4,6-Tribromophenol	32.6			ug/L	50.0		65.3	10-168			



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot Number U2003CUFS	Reported: 01/19/22 09:25
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**Semivolatile Organic Compounds by EPA Method 8270C SIM - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA23647 - NB Solvent Extraction GCMS SV 3510**

**Blank (AA23647-BLK1)**

Prepared: 01/07/22 Analyzed: 01/10/22

Acenaphthene	ND	0.00060	0.010	ug/L							U
Acenaphthylene	ND	0.00050	0.010	ug/L							U
Anthracene	ND	0.00060	0.010	ug/L							U
Benzo (a) anthracene	ND	0.0030	0.010	ug/L							U
Benzo (a) pyrene	ND	0.0030	0.010	ug/L							U
Benzo (b) fluoranthene	ND	0.0020	0.010	ug/L							U
Benzo (g,h,i) perylene	ND	0.0010	0.050	ug/L							U
Benzo (k) fluoranthene	ND	0.0010	0.010	ug/L							U
Chrysene	ND	0.00080	0.010	ug/L							U
Dibenz (a,h) anthracene	ND	0.0020	0.10	ug/L							U
Fluoranthene	ND	0.00060	0.010	ug/L							U
Fluorene	ND	0.00030	0.010	ug/L							U
Indeno (1,2,3-cd) pyrene	ND	0.0010	0.050	ug/L							U
Naphthalene	ND	0.00090	0.010	ug/L							U
Phenanthrene	ND	0.00030	0.010	ug/L							U
Pyrene	ND	0.00080	0.010	ug/L							U
Surrogate: 2-Fluorobiphenyl	0.488			ug/L	0.500		97.5	50-120			
Surrogate: p-Terphenyl-d14	0.469			ug/L	0.500		93.9	50-150			

**LCS (AA23647-BS1)**

Prepared: 01/07/22 Analyzed: 01/12/22

Acenaphthene	0.423	0.00060	0.010	ug/L	0.500		84.7	70-110			
Pyrene	0.472	0.00080	0.010	ug/L	0.500		94.5	70-130			
Surrogate: 2-Fluorobiphenyl	0.487			ug/L	0.500		97.4	80-120			
Surrogate: p-Terphenyl-d14	0.555			ug/L	0.500		111	80-120			

**LCS Dup (AA23647-BSD1)**

Prepared: 01/07/22 Analyzed: 01/12/22

Acenaphthene	0.415	0.00060	0.010	ug/L	0.500		83.0	70-110	1.94	25	
Pyrene	0.446	0.00080	0.010	ug/L	0.500		89.3	70-130	5.66	25	
Surrogate: 2-Fluorobiphenyl	0.439			ug/L	0.500		87.8	80-120			
Surrogate: p-Terphenyl-d14	0.540			ug/L	0.500		108	80-120			



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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U2003CUFS

Reported:  
01/19/22 09:25

### Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QL-04 The LCS/LCSD RPD for this analyte was outside of established control limits. Batch accepted based on acceptable recovery for both LCS/LCSD.
- 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

Non-accredited analytes are reported only when ELAP accreditation for a requested analyte is not available. For a list of accredited analytes, view our certificates at the Company link on our website at [www.alpha-labs.com](http://www.alpha-labs.com) or contact your Project Manager directly.

22A0295

Alpha Analytical Laboratories Ukiah to North Bay Chain of Custody

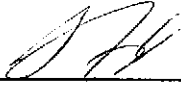
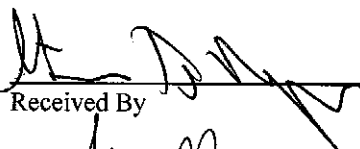
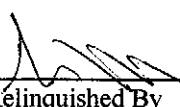
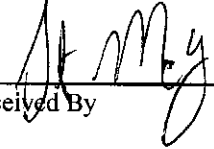
Client: <b>Sample Traps, LLC</b>	Client Code: <b>SAMPLETRAPS</b>	Bid: <b>Quality Control</b>
Project: <b>QC- 1 Liter BRA Buttress</b>	Project Number: <b>Lot Number U2003CUFS</b>	PO #:

Date Due: 01/11/22 15:00 (5 day TAT)  
 Received By: Sean Foley Date Received: 01/04/22 08:00  
 Logged In By: Sean Foley Date Logged: 01/04/22 12:44

Samples Received at: \_\_\_\_\_ deg C All containers received and intact: YES NO

Analysis	Department	Expires	Comments
<b>22A0295-04 U2003CUFS - 04 [Water] Sampled 01/04/22 00:00</b>			
NB 8270 Regular List	NB SVGC	01/11/22 23:59	
<b>22A0295-05 U2003CUFS - 05 [Water] Sampled 01/04/22 00:00</b>			
NB 8270 PNAS SIM	NB SVGC	01/11/22 23:59	

**Containers Supplied:**  
 1L Amber- Unpres. (A)  
 1L Amber- Unpres. (B)  
 1L Amber- Unpres. (A)  
 1L Amber- Unpres. (B)

	1/5/22			1/5/22	7:30
Relinquished By	Date	Time	Received By	Date	Time
	1/5/22	12:50		1/5/22	1250
Relinquished By	Date	Time	Received By	Date	Time



Laboratory & Corporate: 208 Mason Street, Ukiah, CA 95482  
707-468-0401 Fax: 707-468-5267

Service Center & Micro Lab: 6398 Dougherty Rd, Ste 35, Dublin, CA 94568  
925-828-6226 Fax: 925-828-6309

# Chain of Custody Record

Reports and Invoices will be delivered by email in .pdf format.

Lab No. 22A0295 Page      of     

Report to:		Invoice to (if different):		Project Info for Report:		Signature below authorizes work under terms stated on reverse side.											
Company:		Company:		Project ID:		Analyses Requested					TAT		Sample Notes (lab use only)				
Sample Traps LLC				QC - 1 Liter BRA Buttress													
Attn:		Attn:		Project No:		Total Number of Containers					10 days <input checked="" type="radio"/>		Temperature:  deg. C				
Quality Control Manager				Lot number U2003CUFS													
Address:		Address:		PO/Reference :		include j-flag reporting					RUSH: 5 days <input type="radio"/>		Shipment Method:				
Phone/Fax:		Phone/Fax:															
Email Address:		Email Address:				608 Sample Traps					48 hours <input type="radio"/>		Custody Seals: Y / N				
admin@sampletraps.com																	
Samplers Signature:		Container:		Preservative:		Matrix:		8141 Sample Traps					Other: days <input type="radio"/>		Sample Notes or CDPH Source Numbers:		
Print:		40ml VOA		HCL		Container											
Sample Identification		Sampled: Date Time		Poly		Methanol		8151 Sample Traps					8270 Sample Traps Group				
U2003CUFS - 01				Glass bottle		Na Bisulfate											
U2003CUFS - 02				Glass Jar		Other		8270 PNA SIM Sample Traps									
U2003CUFS - 03						None											
U2003CUFS - 04						Water											
U2003CUFS - 05						Container											
Relinquished by:		Received by:		Date:		Time:		CDPH Write On EDT Transmission? <input type="radio"/> Yes <input type="radio"/> No									
Lisa Lawrence				1-4-22		0800		State System Number: _____					If "Y" please enter the Source Number(s) in the column above				
				1-4-22				CA Geotracker EDF Report? <input type="radio"/> Yes <input type="radio"/> No									
								Global ID: _____					Sampling Company Log Code: _____				
								EDF to (Email Address): _____									
								Travel and Site Time: _____					Mileage: _____		Misc. Supplies: _____		