



*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

27 June 2019

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 1 Liter BRA Buttress

Work Order: 19E3136

Enclosed are the results of analyses for samples received by the laboratory on 05/29/19 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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 U9142CUFS

Reported:  
06/27/19 16:10

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
U9142CUFS - 01	19E3136-01	Water	05/29/19 00:00	05/29/19 08:00
U9142CUFS - 02	19E3136-02	Water	05/29/19 00:00	05/29/19 08:00
U9142CUFS - 03	19E3136-03	Water	05/29/19 00:00	05/29/19 08:00
U9142CUFS - 04	19E3136-04	Water	05/29/19 00:00	05/29/19 08:00
U9142CUFS - 05	19E3136-05	Water	05/29/19 00:00	05/29/19 08:00



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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 U9142CUFS

Reported:  
 06/27/19 16:10

**Organochlorine Pesticides and PCBs by EPA Method 608**

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							
<b>U9142CUFS - 01 (19E3136-01) Water    Sampled: 05/29/19 00:00    Received: 05/29/19 08:00</b>											
Aldrin	ND	0.0020	0.0050	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
alpha-BHC	ND	0.0040	0.010	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
beta-BHC	ND	0.0040	0.0050	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
delta-BHC	ND	0.0020	0.0050	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
gamma-BHC (Lindane)	ND	0.0040	0.010	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Chlordane (tech)	ND	0.010	0.050	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
4,4'-DDD	ND	0.0050	0.020	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
4,4'-DDE	ND	0.0040	0.020	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
4,4'-DDT	ND	0.0030	0.010	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Dieldrin	ND	0.0050	0.010	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Endosulfan I	ND	0.0040	0.010	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Endosulfan II	ND	0.0050	0.010	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Endosulfan sulfate	ND	0.0030	0.050	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Endrin	ND	0.0080	0.010	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Endrin aldehyde	ND	0.0040	0.040	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Heptachlor	ND	0.0050	0.010	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Heptachlor epoxide	ND	0.0090	0.010	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Methoxychlor	ND	0.010	0.50	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Toxaphene	ND	0.20	0.50	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
PCB-1016	ND	0.080	0.50	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
PCB-1221	ND	0.20	0.50	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
PCB-1232	ND	0.10	0.50	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
PCB-1242	ND	0.040	0.50	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
PCB-1248	ND	0.060	0.50	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
PCB-1254	ND	0.040	0.50	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
PCB-1260	ND	0.040	0.50	ug/L	1	AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	U
Surrogate: Dibutylchloroendate		123 %	63-124			AF93111	06/04/19 06:36	06/15/19 01:41	EPA 608	MCB	

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 U9142CUFS

Reported:  
 06/27/19 16:10

**Chlorinated Herbicides by EPA Method 8151A**

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							
<b>U9142CUFS - 03 (19E3136-03) Water    Sampled: 05/29/19 00:00    Received: 05/29/19 08:00</b>											
2,4-D	ND	0.50	1.0	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
2,4-DB	ND	0.80	4.0	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
2,4,5-T	ND	0.10	0.50	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
2,4,5-TP (Silvex)	ND	0.10	0.50	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
Dalapon	ND	0.80	6.0	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
Dicamba	ND	0.080	0.40	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
Dinoseb	ND	0.20	1.0	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
MCPA	ND	30	300	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
MCPP	ND	50	300	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
Dichlorprop	ND	0.30	1.0	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
Pentachlorophenol	ND	0.060	0.20	ug/L	1	AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	U
Surrogate: DCAA		105 %	62-124			AF93243	06/07/19 00:00	06/07/19 23:21	EPA 8151A	MCB	



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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 U9142CUFS

Reported:  
 06/27/19 16:10

### Organophosphorus Compounds by EPA Method 8141A

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							
<b>U9142CUFS - 02 (19E3136-02) Water    Sampled: 05/29/19 00:00    Received: 05/29/19 08:00</b>											
Azinphos ethyl	ND	0.30	2.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Azinphos methyl	ND	0.40	2.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Bolstar	ND	0.30	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Chlorpyrifos	ND	0.30	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Coumaphos	ND	0.30	2.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Demeton-o	ND	0.20	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Demeton-s	ND	0.30	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Diazinon	ND	0.30	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Dichlorvos	ND	0.40	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Dimethoate	ND	0.30	2.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Disulfoton	ND	0.30	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
EPN	ND	0.50	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Ethion	ND	0.30	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Ethoprop (Ethoprophos)	ND	0.40	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Fensulfothion	ND	0.30	2.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Fenthion	ND	0.50	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Malathion	ND	0.30	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Mevinphos	ND	0.30	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Parathion	ND	0.40	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Parathion-methyl	ND	0.40	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Phorate	ND	0.40	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Ronnel	ND	0.30	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Stirofos	ND	0.30	0.50	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Thionazin	ND	0.30	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Tokuthion (Prothiofos)	ND	0.40	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Trichloronate	ND	0.40	1.0	ug/L	1	AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	U
Surrogate: Tributyl phosphate		84.9 %	37-115			AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	
Surrogate: Triphenyl phosphate		85.7 %	44-145			AF93097	06/04/19 00:00	06/06/19 12:28	EPA 8141A	MCB	



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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 U9142CUFS	Reported: 06/27/19 16:10
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**Semivolatile Organic Compounds by EPA Method 8270C**

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

**U9142CUFS - 04 (19E3136-04) Water**    **Sampled: 05/29/19 00:00**    **Received: 05/29/19 08:00**

Acenaphthene	ND	0.60	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Acenaphthylene	ND	0.50	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Anthracene	ND	0.40	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Benzo (a) anthracene	ND	0.40	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Benzo (a) pyrene	ND	0.50	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Benzo (b) fluoranthene	ND	0.60	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Benzo (g,h,i) perylene	ND	0.90	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Benzo (k) fluoranthene	ND	0.50	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Bis(2-chloroethoxy)methane	ND	0.90	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Bis(2-chloroethyl)ether	ND	0.90	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Bis(2-chloroisopropyl)ether	ND	1.0	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Bis(2-ethylhexyl)phthalate	ND	3.0	5.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
4-Bromophenyl phenyl ether	ND	1.0	4.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Butyl benzyl phthalate	ND	0.60	5.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
4-Chloroaniline	ND	1.0	14	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2-Chloronaphthalene	ND	0.60	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2-Chlorophenol	ND	0.70	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
4-Chlorophenyl phenyl ether	ND	0.90	4.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Chrysene	ND	0.80	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Di-n-butyl phthalate	ND	0.90	10	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Di-n-octyl phthalate	ND	0.60	10	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Dibenz (a,h) anthracene	ND	0.80	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Dibenzofuran	ND	0.90	4.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
1,2-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
1,3-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
1,4-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2,4-Dichlorophenol	ND	0.70	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Diethyl phthalate	ND	0.30	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Dimethyl phthalate	ND	0.80	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2,4-Dimethylphenol	ND	1.0	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
4,6-Dinitro-2-methylphenol	ND	3.0	4.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2,4-Dinitrophenol	ND	5.0	5.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2,4-Dinitrotoluene	ND	0.80	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2,6-Dinitrotoluene	ND	0.80	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Fluoranthene	ND	0.80	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	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 U9142CUFS	Reported: 06/27/19 16:10
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**Semivolatile Organic Compounds by EPA Method 8270C**

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

**U9142CUFS - 04 (19E3136-04) Water** Sampled: 05/29/19 00:00 Received: 05/29/19 08:00

Fluorene	ND	0.80	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Hexachlorobenzene	ND	0.90	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Hexachlorobutadiene	ND	0.80	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Hexachlorocyclopentadiene	ND	4.0	4.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Hexachloroethane	ND	0.60	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Indeno (1,2,3-cd) pyrene	ND	0.60	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Isophorone	ND	0.30	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2-Methylnaphthalene	ND	1.0	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2-Methylphenol (o-cresol)	ND	0.60	5.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
3 & 4-Methylphenol (m,p-cresol)	ND	0.60	5.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
N-Nitrosodi-n-propylamine	ND	0.80	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
N-Nitrosodimethylamine	ND	0.30	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
N-Nitrosodiphenylamine	ND	1.0	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Naphthalene	ND	0.70	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2-Nitroaniline	ND	1.0	20	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
3-Nitroaniline	ND	5.0	50	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
4-Nitroaniline	ND	4.0	20	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2-Nitrophenol	ND	0.90	10	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
4-Nitrophenol	ND	3.0	5.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Nitrobenzene	ND	0.90	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Pentachlorophenol	ND	4.0	5.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Phenanthrene	ND	0.90	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Phenol	ND	0.50	1.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Pyrene	ND	0.40	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
1,2,4-Trichlorobenzene	ND	0.60	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2,4,5-Trichlorophenol	ND	0.60	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
2,4,6-Trichlorophenol	ND	0.70	2.0	ug/L	1	AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	U
Surrogate: 2-Fluorobiphenyl		88.1 %	42-115			AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	
Surrogate: 2-Fluorophenol		48.1 %	21-87			AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	
Surrogate: Nitrobenzene-d5		84.2 %	50-110			AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	
Surrogate: p-Terphenyl-d14		113 %	61-134			AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	
Surrogate: Phenol-d6		37.2 %	20-52			AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	
Surrogate: 2,4,6-Tribromophenol		120 %	54-135			AF93029	06/03/19 06:27	06/04/19 18:40	EPA 8270C/625	NBH	

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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 U9142CUFS	Reported: 06/27/19 16:10
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**Benzidines by EPA Method 8270C**

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

**U9142CUFS - 04 (19E3136-04) Water**    **Sampled: 05/29/19 00:00**    **Received: 05/29/19 08:00**

Benzidine	ND	3.0	5.0	ug/L	1	AF93110	06/04/19 06:35	06/06/19 03:06	EPA 8270C	NBH	U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L	1	AF93110	06/04/19 06:35	06/06/19 03:06	EPA 8270C	NBH	U
<i>Surrogate: 2-Fluorobiphenyl</i>		96.0 %	42-115			AF93110	06/04/19 06:35	06/06/19 03:06	EPA 8270C	NBH	
<i>Surrogate: Nitrobenzene-d5</i>		100 %	50-110			AF93110	06/04/19 06:35	06/06/19 03:06	EPA 8270C	NBH	
<i>Surrogate: p-Terphenyl-d14</i>		96.9 %	61-134			AF93110	06/04/19 06:35	06/06/19 03:06	EPA 8270C	NBH	





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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 U9142CUFS

Reported:  
 06/27/19 16:10

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

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

**U9142CUFS - 05 (19E3136-05) Water**    **Sampled: 05/29/19 00:00**    **Received: 05/29/19 08:00**

Acenaphthylene	ND	0.20	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Anthracene	ND	0.090	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Benzo (a) anthracene	ND	0.20	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Benzo (a) pyrene	ND	0.20	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Benzo (b) fluoranthene	ND	0.20	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Benzo (g,h,i) perylene	ND	0.10	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Benzo (k) fluoranthene	ND	0.20	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Chrysene	ND	0.20	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Dibenz (a,h) anthracene	ND	0.10	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Fluorene	ND	0.20	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Indeno (1,2,3-cd) pyrene	ND	0.030	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Phenanthrene	ND	0.10	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Pyrene	ND	0.20	0.20	ug/L	1	AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	U
Surrogate: 2-Fluorobiphenyl		97.9 %	42-115			AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	
Surrogate: Nitrobenzene-d5		76.4 %	45-110			AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	
Surrogate: p-Terphenyl-d14		101 %	61-134			AF93286	06/03/19 07:00	06/11/19 17:36	EPA 8270SIM	NBH	



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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 U9142CUFS	Reported: 06/27/19 16:10
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**Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AF93111 - SVOAs in Water GC**

**Blank (AF93111-BLK1)**

Prepared: 06/04/19 Analyzed: 06/14/19

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	0.478			ug/L	0.456		105	63-124			



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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 U9142CUFS	Reported: 06/27/19 16:10
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**Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AF93111 - SVOAs in Water GC**

**LCS (AF93111-BS1)**

Prepared: 06/04/19 Analyzed: 06/15/19

Aldrin	0.233	0.0020	0.0050	ug/L	0.240		97.0	43-120			
alpha-BHC	0.256	0.0040	0.010	ug/L	0.240		107	71-122			
beta-BHC	0.265	0.0040	0.0050	ug/L	0.240		111	65-123			
delta-BHC	0.194	0.0020	0.0050	ug/L	0.240		80.8	78-129			
gamma-BHC (Lindane)	0.267	0.0040	0.010	ug/L	0.240		111	59-122			
4,4'-DDD	0.212	0.0050	0.020	ug/L	0.240		88.2	79-132			
4,4'-DDE	0.262	0.0040	0.020	ug/L	0.240		109	78-132			
4,4'-DDT	0.265	0.0030	0.010	ug/L	0.240		110	79-143			
Dieldrin	0.263	0.0050	0.010	ug/L	0.240		110	80-124			
Endosulfan I	0.263	0.0040	0.010	ug/L	0.240		110	71-126			
Endosulfan II	0.269	0.0050	0.010	ug/L	0.240		112	80-125			
Endosulfan sulfate	0.240	0.0030	0.050	ug/L	0.240		100	80-126			
Endrin	0.304	0.0080	0.010	ug/L	0.240		127	59-176			
Endrin aldehyde	0.265	0.0040	0.040	ug/L	0.240		110	46-129			
Heptachlor	0.274	0.0050	0.010	ug/L	0.240		114	67-120			
Heptachlor epoxide	0.277	0.0090	0.010	ug/L	0.240		115	71-127			
Methoxychlor	0.276	0.010	0.50	ug/L	0.240		115	72-163			J
Surrogate: Dibutylchloroendate	0.526			ug/L	0.456		115	63-124			

**LCS Dup (AF93111-BS1)**

Prepared: 06/04/19 Analyzed: 06/15/19

Aldrin	0.210	0.0020	0.0050	ug/L	0.240		87.5	43-120	10.3	20	
alpha-BHC	0.225	0.0040	0.010	ug/L	0.240		93.9	71-122	12.7	20	
beta-BHC	0.243	0.0040	0.0050	ug/L	0.240		101	65-123	8.60	20	
delta-BHC	0.233	0.0020	0.0050	ug/L	0.240		96.9	78-129	18.1	20	
gamma-BHC (Lindane)	0.234	0.0040	0.010	ug/L	0.240		97.3	59-122	13.2	20	
4,4'-DDE	0.229	0.0040	0.020	ug/L	0.240		95.5	78-132	13.3	20	
4,4'-DDD	0.198	0.0050	0.020	ug/L	0.240		82.6	79-132	6.61	20	
4,4'-DDT	0.229	0.0030	0.010	ug/L	0.240		95.3	79-143	14.7	20	
Dieldrin	0.232	0.0050	0.010	ug/L	0.240		96.9	80-124	12.3	20	
Endosulfan I	0.232	0.0040	0.010	ug/L	0.240		96.5	71-126	12.8	20	
Endosulfan II	0.261	0.0050	0.010	ug/L	0.240		109	80-125	2.86	20	
Endosulfan sulfate	0.201	0.0030	0.050	ug/L	0.240		83.9	80-126	17.5	20	
Endrin	0.279	0.0080	0.010	ug/L	0.240		116	59-176	8.53	20	
Endrin aldehyde	0.228	0.0040	0.040	ug/L	0.240		95.1	46-129	14.7	30	
Heptachlor	0.239	0.0050	0.010	ug/L	0.240		99.7	67-120	13.5	20	
Heptachlor epoxide	0.245	0.0090	0.010	ug/L	0.240		102	71-127	12.2	20	

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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 U9142CUFS	Reported: 06/27/19 16:10
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**Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AF93111 - SVOAs in Water GC**

**LCS Dup (AF93111-BSD1)**

Prepared: 06/04/19 Analyzed: 06/15/19

Methoxychlor	0.228	0.010	0.50	ug/L	0.240		94.8	72-163	19.3	20	J
Surrogate: Dibutylchlorendate	0.473			ug/L	0.456		104	63-124			

**MRL Check (AF93111-MRL1)**

Prepared: 06/04/19 Analyzed: 06/14/19

Aldrin	0.0141	0.0020	0.0050	ug/L	0.00800		176	0-200			
alpha-BHC	0.00898	0.0040	0.010	ug/L	0.00800		112	0-200			J
beta-BHC	0.0135	0.0040	0.0050	ug/L	0.00800		169	0-200			
delta-BHC	0.00455	0.0020	0.0050	ug/L	0.00800		56.8	0-200			J
gamma-BHC (Lindane)	0.00705	0.0040	0.010	ug/L	0.00800		88.1	0-200			J
4,4'-DDD	ND	0.0050	0.020	ug/L	0.00800			0-200			U
4,4'-DDE	0.00867	0.0040	0.020	ug/L	0.00800		108	0-200			J
4,4'-DDT	0.0149	0.0030	0.010	ug/L	0.00800		186	0-200			
Dieldrin	0.00869	0.0050	0.010	ug/L	0.00800		109	0-200			J
Endosulfan I	0.00891	0.0040	0.010	ug/L	0.00800		111	0-200			J
Endosulfan II	0.00940	0.0050	0.010	ug/L	0.00800		117	0-200			J
Endosulfan sulfate	0.0117	0.0030	0.050	ug/L	0.00800		147	0-200			J
Endrin	0.00826	0.0080	0.010	ug/L	0.00800		103	0-200			J
Endrin aldehyde	0.0132	0.0040	0.040	ug/L	0.00800		165	0-200			J
Heptachlor	0.0112	0.0050	0.010	ug/L	0.00800		140	0-200			
Heptachlor epoxide	ND	0.0090	0.010	ug/L	0.00800			0-200			U
Methoxychlor	0.0119	0.010	0.50	ug/L	0.00800		149	0-200			J
Surrogate: Dibutylchlorendate	0.552			ug/L	0.456		121	63-124			

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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 AF93243 - Herbicides**

**Blank (AF93243-BLK1)**

Prepared & Analyzed: 06/07/19

2,4-D	ND	0.50	1.0	ug/L							U
2,4-DB	ND	0.80	4.0	ug/L							U
2,4,5-T	ND	0.10	0.50	ug/L							U
2,4,5-TP (Silvex)	ND	0.10	0.50	ug/L							U
Dalapon	ND	0.80	6.0	ug/L							U
Dicamba	ND	0.080	0.40	ug/L							U
Dinoseb	ND	0.20	1.0	ug/L							U
MCPA	ND	30	300	ug/L							U
MCPP	ND	50	300	ug/L							U
Dichlorprop	ND	0.30	1.0	ug/L							U
Pentachlorophenol	ND	0.060	0.20	ug/L							U
Surrogate: DCAA	24.9			ug/L	24.6		101	62-124			

**LCS (AF93243-BS1)**

Prepared & Analyzed: 06/07/19

2,4-D	2.05	0.50	1.0	ug/L	1.92		107	48-124			
2,4-DB	9.05	0.80	4.0	ug/L	7.68		118	54-123			
2,4,5-T	1.01	0.10	0.50	ug/L	0.960		105	68-166			
2,4,5-TP (Silvex)	0.819	0.10	0.50	ug/L	0.960		85.3	70-130			
Dalapon	12.0	0.80	6.0	ug/L	12.5		96.0	40-112			
Dicamba	0.960	0.080	0.40	ug/L	0.960		100	70-130			
Dinoseb	2.98	0.20	1.0	ug/L	3.92		76.1	20-105			
Dichlorprop	2.80	0.30	1.0	ug/L	2.88		97.2	54-106			
Pentachlorophenol	0.716	0.060	0.20	ug/L	0.960		74.6	70-130			
Surrogate: DCAA	26.0			ug/L	24.6		106	62-124			

**LCS (AF93243-BS2)**

Prepared & Analyzed: 06/07/19

MCPA	262	30	300	ug/L	288		90.8	55-116			J
MCPP	246	50	300	ug/L	281		87.7	47-114			J
Surrogate: DCAA	22.4			ug/L	24.6		90.9	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 U9142CUFS	Reported: 06/27/19 16:10
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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 AF93243 - Herbicides**

<b>LCS Dup (AF93243-BSD1)</b>		Prepared & Analyzed: 06/07/19									
2,4-D	2.06	0.50	1.0	ug/L	1.92	107	48-124	0.812	50		
2,4-DB	8.55	0.80	4.0	ug/L	7.68	111	54-123	5.71	50		
2,4,5-T	1.02	0.10	0.50	ug/L	0.960	106	68-166	1.43	50		
2,4,5-TP (Silvex)	0.854	0.10	0.50	ug/L	0.960	88.9	70-130	4.16	50		
Dalapon	12.0	0.80	6.0	ug/L	12.5	95.8	40-112	0.220	50		
Dicamba	0.988	0.080	0.40	ug/L	0.960	103	70-130	2.87	50		
Dinoseb	3.10	0.20	1.0	ug/L	3.92	79.1	20-105	3.94	50		
Dichlorprop	2.87	0.30	1.0	ug/L	2.88	99.6	54-106	2.47	50		
Pentachlorophenol	0.744	0.060	0.20	ug/L	0.960	77.5	70-130	3.80	50		
Surrogate: DCAA	27.0			ug/L	24.6	110	62-124				

<b>LCS Dup (AF93243-BSD2)</b>		Prepared & Analyzed: 06/07/19									
MCPA	266	30	300	ug/L	288	92.4	55-116	1.73	50		J
MCPP	261	50	300	ug/L	281	92.8	47-114	5.67	50		J
Surrogate: DCAA	24.8			ug/L	24.6	101	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 U9142CUFS	Reported: 06/27/19 16:10
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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 AF93097 - SVOAs in Water GC**

**Blank (AF93097-BLK1)**

Prepared: 06/04/19 Analyzed: 06/06/19

Azinphos ethyl	ND	0.30	2.0	ug/L							U
Azinphos methyl	ND	0.40	2.0	ug/L							U
Bolstar	ND	0.30	1.0	ug/L							U
Chlorpyrifos	ND	0.30	0.50	ug/L							U
Coumaphos	ND	0.30	2.0	ug/L							U
Demeton-o	ND	0.20	1.0	ug/L							U
Demeton-s	ND	0.30	1.0	ug/L							U
Diazinon	ND	0.30	0.50	ug/L							U
Dichlorvos	ND	0.40	1.0	ug/L							U
Dimethoate	ND	0.30	2.0	ug/L							U
Disulfoton	ND	0.30	0.50	ug/L							U
EPN	ND	0.50	1.0	ug/L							U
Ethion	ND	0.30	0.50	ug/L							U
Ethoprop (Ethoprophos)	ND	0.40	1.0	ug/L							U
Fensulfothion	ND	0.30	2.0	ug/L							U
Fenthion	ND	0.50	0.50	ug/L							U
Malathion	ND	0.30	0.50	ug/L							U
Mevinphos	ND	0.30	1.0	ug/L							U
Parathion	ND	0.40	0.50	ug/L							U
Parathion-methyl	ND	0.40	0.50	ug/L							U
Phorate	ND	0.40	0.50	ug/L							U
Ronnel	ND	0.30	0.50	ug/L							U
Stirofos	ND	0.30	0.50	ug/L							U
Thionazin	ND	0.30	1.0	ug/L							U
Tokuthion (Prothiofos)	ND	0.40	1.0	ug/L							U
Trichloronate	ND	0.40	1.0	ug/L							U
Surrogate: Tributyl phosphate	1.57			ug/L	2.00		78.4	37-115			
Surrogate: Triphenyl phosphate	1.63			ug/L	2.00		81.3	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 U9142CUFS	Reported: 06/27/19 16:10
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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 AF93097 - SVOAs in Water GC**

**LCS (AF93097-BS1)**

Prepared: 06/04/19 Analyzed: 06/06/19

Azinphos ethyl	3.63	0.30	2.0	ug/L	4.00		90.6	44-154			
Azinphos methyl	3.65	0.40	2.0	ug/L	4.00		91.1	42-147			
Bolstar	3.59	0.30	1.0	ug/L	4.00		89.7	35-144			
Chlorpyrifos	3.61	0.30	0.50	ug/L	4.00		90.3	50-134			
Coumaphos	3.78	0.30	2.0	ug/L	4.00		94.5	47-152			
Demeton-o	0.784	0.20	1.0	ug/L	0.880		89.1	18-128			J
Demeton-s	1.83	0.30	1.0	ug/L	3.00		61.1	43-125			
Diazinon	3.13	0.30	0.50	ug/L	4.00		78.2	50-121			
Dichlorvos	4.21	0.40	1.0	ug/L	4.00		105	77-143			
Dimethoate	3.45	0.30	2.0	ug/L	4.00		86.2	37-133			
Disulfoton	3.50	0.30	0.50	ug/L	4.00		87.6	50-119			
EPN	3.91	0.50	1.0	ug/L	4.00		97.7	55-140			
Ethion	3.44	0.30	0.50	ug/L	4.00		86.0	38-137			
Ethoprop (Ethoprophos)	3.56	0.40	1.0	ug/L	4.00		89.0	67-130			
Fensulfothion	4.03	0.30	2.0	ug/L	4.00		101	35-157			
Fenthion	3.58	0.50	0.50	ug/L	4.00		89.5	56-125			
Malathion	3.78	0.30	0.50	ug/L	4.00		94.5	39-127			
Mevinphos	3.52	0.30	1.0	ug/L	4.00		87.9	58-125			
Parathion	2.65	0.40	0.50	ug/L	4.00		66.1	33-137			
Parathion-methyl	3.68	0.40	0.50	ug/L	4.00		92.0	52-134			
Phorate	3.21	0.40	0.50	ug/L	4.00		80.2	58-119			
Ronnel	3.43	0.30	0.50	ug/L	4.00		85.8	41-135			
Stirofos	3.48	0.30	0.50	ug/L	4.00		87.0	34-151			
Thionazin	3.18	0.30	1.0	ug/L	4.00		79.5	60-118			
Tokuthion (Prothiofos)	3.67	0.40	1.0	ug/L	4.00		91.8	41-136			
Trichloronate	3.55	0.40	1.0	ug/L	4.00		88.7	36-146			
Surrogate: Tributyl phosphate	1.92			ug/L	2.00		96.1	37-115			
Surrogate: Triphenyl phosphate	1.85			ug/L	2.00		92.4	44-145			





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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 AF93097 - SVOAs in Water GC**

**LCS Dup (AF93097-BSD1)**

Prepared: 06/04/19 Analyzed: 06/06/19

Azinphos ethyl	3.73	0.30	2.0	ug/L	4.00		93.3	44-154	2.84	30	
Azinphos methyl	3.39	0.40	2.0	ug/L	4.00		84.8	42-147	7.24	30	
Bolstar	3.77	0.30	1.0	ug/L	4.00		94.2	35-144	4.79	30	
Chlorpyrifos	3.73	0.30	0.50	ug/L	4.00		93.3	50-134	3.20	30	
Coumaphos	4.03	0.30	2.0	ug/L	4.00		101	47-152	6.37	30	
Demeton-o	0.776	0.20	1.0	ug/L	0.880		88.2	18-128	0.980	30	J
Demeton-s	1.93	0.30	1.0	ug/L	3.00		64.3	43-125	5.18	30	
Diazinon	3.19	0.30	0.50	ug/L	4.00		79.8	50-121	2.03	30	
Dichlorvos	4.35	0.40	1.0	ug/L	4.00		109	77-143	3.29	30	
Dimethoate	3.77	0.30	2.0	ug/L	4.00		94.3	37-133	9.01	30	
Disulfoton	3.64	0.30	0.50	ug/L	4.00		91.0	50-119	3.78	30	
EPN	4.02	0.50	1.0	ug/L	4.00		100	55-140	2.81	30	
Ethion	3.63	0.30	0.50	ug/L	4.00		90.6	38-137	5.27	30	
Ethoprop (Ethoprophos)	3.71	0.40	1.0	ug/L	4.00		92.8	67-130	4.17	30	
Fensulfothion	4.16	0.30	2.0	ug/L	4.00		104	35-157	3.25	30	
Fenthion	3.70	0.50	0.50	ug/L	4.00		92.5	56-125	3.34	30	
Malathion	3.78	0.30	0.50	ug/L	4.00		94.4	39-127	0.106	30	
Mevinphos	3.39	0.30	1.0	ug/L	4.00		84.7	58-125	3.69	30	
Parathion	2.76	0.40	0.50	ug/L	4.00		69.0	33-137	4.31	30	
Parathion-methyl	3.79	0.40	0.50	ug/L	4.00		94.6	52-134	2.87	30	
Phorate	3.31	0.40	0.50	ug/L	4.00		82.9	58-119	3.25	30	
Ronnel	3.47	0.30	0.50	ug/L	4.00		86.8	41-135	1.19	30	
Stirofos	3.71	0.30	0.50	ug/L	4.00		92.8	34-151	6.39	30	
Thionazin	3.38	0.30	1.0	ug/L	4.00		84.5	60-118	6.09	30	
Tokuthion (Prothiofos)	3.83	0.40	1.0	ug/L	4.00		95.9	41-136	4.34	30	
Trichloronate	3.66	0.40	1.0	ug/L	4.00		91.6	36-146	3.20	30	
Surrogate: Tributyl phosphate	1.99			ug/L	2.00		99.6	37-115			
Surrogate: Triphenyl phosphate	1.88			ug/L	2.00		93.9	44-145			



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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 AF93029 - SVOAs in Water GCMS**

**Blank (AF93029-BLK1)**

Prepared: 06/03/19 Analyzed: 06/04/19

Acenaphthene	ND	0.60	1.0	ug/L							U
Acenaphthylene	ND	0.50	2.0	ug/L							U
Anthracene	ND	0.40	2.0	ug/L							U
Benzo (a) anthracene	ND	0.40	2.0	ug/L							U
Benzo (a) pyrene	ND	0.50	2.0	ug/L							U
Benzo (b) fluoranthene	ND	0.60	2.0	ug/L							U
Benzo (g,h,i) perylene	ND	0.90	2.0	ug/L							U
Benzo (k) fluoranthene	ND	0.50	2.0	ug/L							U
Bis(2-chloroethoxy)methane	ND	0.90	2.0	ug/L							U
Bis(2-chloroethyl)ether	ND	0.90	1.0	ug/L							U
Bis(2-chloroisopropyl)ether	ND	1.0	1.0	ug/L							U
Bis(2-ethylhexyl)phthalate	ND	3.0	5.0	ug/L							U
4-Bromophenyl phenyl ether	ND	1.0	4.0	ug/L							U
Butyl benzyl phthalate	ND	0.60	5.0	ug/L							U
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L							U
4-Chloroaniline	ND	1.0	14	ug/L							U
2-Chloronaphthalene	ND	0.60	2.0	ug/L							U
2-Chlorophenol	ND	0.70	2.0	ug/L							U
4-Chlorophenyl phenyl ether	ND	0.90	4.0	ug/L							U
Chrysene	ND	0.80	2.0	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	2.0	ug/L							U
Dibenzofuran	ND	0.90	4.0	ug/L							U
1,2-Dichlorobenzene	ND	0.60	1.0	ug/L							U
1,3-Dichlorobenzene	ND	0.60	1.0	ug/L							U
1,4-Dichlorobenzene	ND	0.60	1.0	ug/L							U
2,4-Dichlorophenol	ND	0.70	2.0	ug/L							U
Diethyl phthalate	ND	0.30	2.0	ug/L							U
Dimethyl phthalate	ND	0.80	2.0	ug/L							U
2,4-Dimethylphenol	ND	1.0	2.0	ug/L							U
4,6-Dinitro-2-methylphenol	ND	3.0	4.0	ug/L							U
2,4-Dinitrophenol	ND	5.0	5.0	ug/L							U
2,4-Dinitrotoluene	ND	0.80	2.0	ug/L							U
2,6-Dinitrotoluene	ND	0.80	2.0	ug/L							U
Fluoranthene	ND	0.80	1.0	ug/L							U

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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 AF93029 - SVOAs in Water GCMS**

**Blank (AF93029-BLK1)**

Prepared: 06/03/19 Analyzed: 06/04/19

Fluorene	ND	0.80	2.0	ug/L							U
Hexachlorobenzene	ND	0.90	1.0	ug/L							U
Hexachlorobutadiene	ND	0.80	1.0	ug/L							U
Hexachlorocyclopentadiene	ND	4.0	4.0	ug/L							U
Hexachloroethane	ND	0.60	1.0	ug/L							U
Indeno (1,2,3-cd) pyrene	ND	0.60	2.0	ug/L							U
Isophorone	ND	0.30	1.0	ug/L							U
2-Methylnaphthalene	ND	1.0	2.0	ug/L							U
2-Methylphenol (o-cresol)	ND	0.60	5.0	ug/L							U
3 & 4-Methylphenol (m,p-cresol)	ND	0.60	5.0	ug/L							U
N-Nitrosodi-n-propylamine	ND	0.80	2.0	ug/L							U
N-Nitrosodimethylamine	ND	0.30	2.0	ug/L							U
N-Nitrosodiphenylamine	ND	1.0	1.0	ug/L							U
Naphthalene	ND	0.70	1.0	ug/L							U
2-Nitroaniline	ND	1.0	20	ug/L							U
3-Nitroaniline	ND	5.0	50	ug/L							U
4-Nitroaniline	ND	4.0	20	ug/L							U
2-Nitrophenol	ND	0.90	10	ug/L							U
4-Nitrophenol	ND	3.0	5.0	ug/L							U
Nitrobenzene	ND	0.90	1.0	ug/L							U
Pentachlorophenol	ND	4.0	5.0	ug/L							U
Phenanthrene	ND	0.90	2.0	ug/L							U
Phenol	ND	0.50	1.0	ug/L							U
Pyrene	ND	0.40	2.0	ug/L							U
1,2,4-Trichlorobenzene	ND	0.60	2.0	ug/L							U
2,4,5-Trichlorophenol	ND	0.60	2.0	ug/L							U
2,4,6-Trichlorophenol	ND	0.70	2.0	ug/L							U
Surrogate: 2-Fluorobiphenyl	38.9			ug/L	40.0		97.3	42-115			
Surrogate: 2-Fluorophenol	14.8			ug/L	40.0		36.9	21-87			
Surrogate: Nitrobenzene-d5	31.5			ug/L	40.0		78.8	50-110			
Surrogate: p-Terphenyl-d14	49.7			ug/L	40.0		124	61-134			
Surrogate: Phenol-d6	11.8			ug/L	40.0		29.4	20-52			
Surrogate: 2,4,6-Tribromophenol	44.6			ug/L	40.0		111	54-135			

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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 U9142CUFS	Reported: 06/27/19 16:10
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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 AF93029 - SVOAs in Water GCMS**

**LCS (AF93029-BS1)**

Prepared: 06/03/19 Analyzed: 06/04/19

Acenaphthene	31	0.60	1.0	ug/L	40.0		76.5	70-110			
Acenaphthylene	30	0.50	2.0	ug/L	40.0		75.7	70-115			
Anthracene	33	0.40	2.0	ug/L	40.0		83.3	70-125			
Benzo (a) anthracene	32	0.40	2.0	ug/L	40.0		80.4	72-122			
Benzo (a) pyrene	31	0.50	2.0	ug/L	40.0		77.8	70-125			
Benzo (b) fluoranthene	32	0.60	2.0	ug/L	40.0		80.6	24-159			
Benzo (g,h,i) perylene	34	0.90	2.0	ug/L	40.0		84.8	60-150			
Benzo (k) fluoranthene	33	0.50	2.0	ug/L	40.0		81.7	11-162			
Bis(2-chloroethoxy)methane	31	0.90	2.0	ug/L	40.0		78.6	62-106			
Bis(2-chloroethyl)ether	29	0.90	1.0	ug/L	40.0		72.0	40-99			
Bis(2-chloroisopropyl)ether	30	1.0	1.0	ug/L	40.0		75.2	36-110			
Bis(2-ethylhexyl)phthalate	34	3.0	5.0	ug/L	40.0		86.2	55-152			
4-Bromophenyl phenyl ether	31	1.0	4.0	ug/L	40.0		78.6	72-120			
Butyl benzyl phthalate	39	0.60	5.0	ug/L	40.0		97.1	67-152			
4-Chloro-3-methylphenol	33	1.0	1.0	ug/L	40.0		83.0	56-116			
4-Chloroaniline	48	1.0	14	ug/L	60.0		80.2	62-103			
2-Chloronaphthalene	29	0.60	2.0	ug/L	40.0		72.9	60-118			
2-Chlorophenol	25	0.70	2.0	ug/L	40.0		61.4	53-100			
4-Chlorophenyl phenyl ether	30	0.90	4.0	ug/L	40.0		76.0	67-115			
Chrysene	32	0.80	2.0	ug/L	40.0		81.1	60-122			
Di-n-butyl phthalate	42	0.90	10	ug/L	40.0		105	73-129			
Di-n-octyl phthalate	33	0.60	10	ug/L	40.0		82.4	71-127			
Dibenz (a,h) anthracene	35	0.80	2.0	ug/L	40.0		86.5	67-150			
Dibenzofuran	30	0.90	4.0	ug/L	40.0		75.4	68-108			
1,2-Dichlorobenzene	23	0.60	1.0	ug/L	40.0		58.4	40-100			
1,3-Dichlorobenzene	21	0.60	1.0	ug/L	40.0		53.3	40-100			
1,4-Dichlorobenzene	23	0.60	1.0	ug/L	40.0		57.8	40-92			
2,4-Dichlorophenol	29	0.70	2.0	ug/L	40.0		73.0	67-110			
Diethyl phthalate	34	0.30	2.0	ug/L	40.0		85.9	74-119			
Dimethyl phthalate	32	0.80	2.0	ug/L	40.0		79.7	68-121			
2,4-Dimethylphenol	12	1.0	2.0	ug/L	50.0		24.3	22-119			
4,6-Dinitro-2-methylphenol	23	3.0	4.0	ug/L	40.0		56.4	55-129			
2,4-Dinitrophenol	31	5.0	5.0	ug/L	40.0		78.0	46-149			
2,4-Dinitrotoluene	30	0.80	2.0	ug/L	40.0		75.9	75-120			
2,6-Dinitrotoluene	34	0.80	2.0	ug/L	40.0		84.7	66-120			
Fluoranthene	38	0.80	1.0	ug/L	40.0		96.2	63-122			

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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 U9142CUFS	Reported: 06/27/19 16:10
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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 AF93029 - SVOAs in Water GCMS**

**LCS (AF93029-BS1)**

Prepared: 06/03/19 Analyzed: 06/04/19

Fluorene	32	0.80	2.0	ug/L	40.0		79.3	75-120			
Hexachlorobenzene	31	0.90	1.0	ug/L	40.0		77.0	75-120			
Hexachlorobutadiene	25	0.80	1.0	ug/L	40.0		63.2	46-93			
Hexachlorocyclopentadiene	20	4.0	4.0	ug/L	40.0		49.9	8-83			
Hexachloroethane	25	0.60	1.0	ug/L	40.0		62.2	40-89			
Indeno (1,2,3-cd) pyrene	35	0.60	2.0	ug/L	40.0		86.8	68-150			
Isophorone	33	0.30	1.0	ug/L	40.0		81.3	39-140			
2-Methylnaphthalene	28	1.0	2.0	ug/L	40.0		69.7	59-100			
2-Methylphenol (o-cresol)	22	0.60	5.0	ug/L	40.0		54.2	45-86			
3 & 4-Methylphenol (m,p-cresol)	21	0.60	5.0	ug/L	40.0		51.7	45-84			
N-Nitrosodi-n-propylamine	32	0.80	2.0	ug/L	40.0		81.0	58-104			
N-Nitrosodimethylamine	14	0.30	2.0	ug/L	40.0		35.8	11-111			
N-Nitrosodiphenylamine	31	1.0	1.0	ug/L	40.0		77.0	60-120			
Naphthalene	28	0.70	1.0	ug/L	40.0		69.0	47-107			
2-Nitroaniline	51	1.0	20	ug/L	60.0		85.7	66-122			
3-Nitroaniline	50	5.0	50	ug/L	60.0		83.3	78-153			
4-Nitroaniline	51	4.0	20	ug/L	60.0		84.5	20-100			
2-Nitrophenol	30	0.90	10	ug/L	40.0		75.4	44-120			
4-Nitrophenol	16	3.0	5.0	ug/L	40.0		38.8	21-71			
Nitrobenzene	29	0.90	1.0	ug/L	40.0		71.6	38-124			
Pentachlorophenol	32	4.0	5.0	ug/L	40.0		80.0	53-145			
Phenanthrene	34	0.90	2.0	ug/L	40.0		84.3	63-123			
Phenol	11	0.50	1.0	ug/L	40.0		28.7	21-51			
Pyrene	34	0.40	2.0	ug/L	40.0		84.2	70-130			
1,2,4-Trichlorobenzene	25	0.60	2.0	ug/L	40.0		61.4	51-96			
2,4,5-Trichlorophenol	35	0.60	2.0	ug/L	40.0		86.6	65-125			
2,4,6-Trichlorophenol	34	0.70	2.0	ug/L	40.0		84.3	68-116			
Surrogate: 2-Fluorobiphenyl	36.1			ug/L	40.0		90.2	42-115			
Surrogate: 2-Fluorophenol	14.6			ug/L	40.0		36.5	21-87			
Surrogate: Nitrobenzene-d5	34.9			ug/L	40.0		87.2	50-110			
Surrogate: p-Terphenyl-d14	39.6			ug/L	40.0		99.1	61-134			
Surrogate: Phenol-d6	11.3			ug/L	40.0		28.3	20-52			
Surrogate: 2,4,6-Tribromophenol	41.1			ug/L	40.0		103	54-135			

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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 U9142CUFS	Reported: 06/27/19 16:10
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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 AF93029 - SVOAs in Water GCMS**

**LCS Dup (AF93029-BSD1)**

Prepared: 06/03/19 Analyzed: 06/04/19

Acenaphthene	29	0.60	1.0	ug/L	40.0		71.5	70-110	6.76	25	
Acenaphthylene	28	0.50	2.0	ug/L	40.0		70.6	70-115	6.97	25	
Anthracene	30	0.40	2.0	ug/L	40.0		76.0	70-125	9.20	25	
Benzo (a) anthracene	30	0.40	2.0	ug/L	40.0		74.9	72-122	7.02	25	
Benzo (a) pyrene	28	0.50	2.0	ug/L	40.0		70.4	70-125	9.95	25	
Benzo (b) fluoranthene	30	0.60	2.0	ug/L	40.0		75.9	24-159	6.01	25	
Benzo (g,h,i) perylene	27	0.90	2.0	ug/L	40.0		66.5	60-150	24.2	25	
Benzo (k) fluoranthene	30	0.50	2.0	ug/L	40.0		75.7	11-162	7.65	25	
Bis(2-chloroethoxy)methane	26	0.90	2.0	ug/L	40.0		65.0	62-106	18.9	25	
Bis(2-chloroethyl)ether	23	0.90	1.0	ug/L	40.0		58.7	40-99	20.3	25	
Bis(2-chloroisopropyl)ether	24	1.0	1.0	ug/L	40.0		59.5	36-110	23.3	25	
Bis(2-ethylhexyl)phthalate	31	3.0	5.0	ug/L	40.0		77.5	55-152	10.6	25	
4-Bromophenyl phenyl ether	29	1.0	4.0	ug/L	40.0		72.9	72-120	7.56	25	
Butyl benzyl phthalate	35	0.60	5.0	ug/L	40.0		88.5	67-152	9.27	25	
4-Chloro-3-methylphenol	31	1.0	1.0	ug/L	40.0		78.7	56-116	5.23	25	
4-Chloroaniline	42	1.0	14	ug/L	60.0		70.2	62-103	13.3	25	
2-Chloronaphthalene	26	0.60	2.0	ug/L	40.0		65.6	60-118	10.6	25	
2-Chlorophenol	24	0.70	2.0	ug/L	40.0		59.2	53-100	3.65	25	
4-Chlorophenyl phenyl ether	32	0.90	4.0	ug/L	40.0		79.0	67-115	3.91	25	
Chrysene	29	0.80	2.0	ug/L	40.0		73.7	60-122	9.56	25	
Di-n-butyl phthalate	36	0.90	10	ug/L	40.0		91.0	73-129	14.1	25	
Di-n-octyl phthalate	31	0.60	10	ug/L	40.0		77.9	71-127	5.55	25	
Dibenz (a,h) anthracene	28	0.80	2.0	ug/L	40.0		70.6	67-150	20.2	25	
Dibenzofuran	29	0.90	4.0	ug/L	40.0		73.7	68-108	2.35	25	
1,2-Dichlorobenzene	23	0.60	1.0	ug/L	40.0		57.6	40-100	1.34	25	
1,3-Dichlorobenzene	22	0.60	1.0	ug/L	40.0		54.0	40-100	1.35	25	
1,4-Dichlorobenzene	23	0.60	1.0	ug/L	40.0		56.4	40-92	2.54	25	
2,4-Dichlorophenol	29	0.70	2.0	ug/L	40.0		72.5	67-110	0.687	25	
Diethyl phthalate	38	0.30	2.0	ug/L	40.0		95.4	74-119	10.5	25	
Dimethyl phthalate	31	0.80	2.0	ug/L	40.0		77.2	68-121	3.15	25	
2,4-Dimethylphenol	15	1.0	2.0	ug/L	50.0		30.7	22-119	23.2	25	
4,6-Dinitro-2-methylphenol	23	3.0	4.0	ug/L	40.0		56.9	55-129	0.794	25	
2,4-Dinitrophenol	35	5.0	5.0	ug/L	40.0		88.4	46-149	12.5	25	
2,4-Dinitrotoluene	33	0.80	2.0	ug/L	40.0		82.5	75-120	8.30	25	
2,6-Dinitrotoluene	33	0.80	2.0	ug/L	40.0		83.6	66-120	1.31	25	
Fluoranthene	33	0.80	1.0	ug/L	40.0		83.4	63-122	14.2	25	

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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 U9142CUFS	Reported: 06/27/19 16:10
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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 AF93029 - SVOAs in Water GCMS**

**LCS Dup (AF93029-BSD1)**

Prepared: 06/03/19 Analyzed: 06/04/19

Fluorene	33	0.80	2.0	ug/L	40.0		82.4	75-120	3.86	25	
Hexachlorobenzene	30	0.90	1.0	ug/L	40.0		75.9	75-120	1.44	25	
Hexachlorobutadiene	24	0.80	1.0	ug/L	40.0		60.1	46-93	4.99	25	
Hexachlorocyclopentadiene	17	4.0	4.0	ug/L	40.0		43.5	8-83	13.8	25	
Hexachloroethane	21	0.60	1.0	ug/L	40.0		52.4	40-89	17.0	25	
Indeno (1,2,3-cd) pyrene	28	0.60	2.0	ug/L	40.0		68.8	68-150	23.1	25	
Isophorone	27	0.30	1.0	ug/L	40.0		68.6	39-140	17.0	25	
2-Methylnaphthalene	27	1.0	2.0	ug/L	40.0		68.6	59-100	1.63	25	
2-Methylphenol (o-cresol)	18	0.60	5.0	ug/L	40.0		45.7	45-86	16.9	25	
3 & 4-Methylphenol (m,p-cresol)	19	0.60	5.0	ug/L	40.0		46.5	45-84	10.5	25	
N-Nitrosodi-n-propylamine	26	0.80	2.0	ug/L	40.0		64.2	58-104	23.1	25	
N-Nitrosodimethylamine	15	0.30	2.0	ug/L	40.0		38.5	11-111	7.13	25	
N-Nitrosodiphenylamine	27	1.0	1.0	ug/L	40.0		67.7	60-120	12.8	25	
Naphthalene	26	0.70	1.0	ug/L	40.0		65.1	47-107	5.74	25	
2-Nitroaniline	47	1.0	20	ug/L	60.0		79.0	66-122	8.17	25	
3-Nitroaniline	51	5.0	50	ug/L	60.0		85.5	78-153	2.63	25	
4-Nitroaniline	52	4.0	20	ug/L	60.0		86.5	20-100	2.34	25	
2-Nitrophenol	30	0.90	10	ug/L	40.0		75.0	44-120	0.532	25	
4-Nitrophenol	15	3.0	5.0	ug/L	40.0		37.0	21-71	4.49	25	
Nitrobenzene	26	0.90	1.0	ug/L	40.0		65.2	38-124	9.33	25	
Pentachlorophenol	32	4.0	5.0	ug/L	40.0		79.7	53-145	0.376	25	
Phenanthrene	30	0.90	2.0	ug/L	40.0		76.0	63-123	10.3	25	
Phenol	10	0.50	1.0	ug/L	40.0		26.2	21-51	8.93	25	
Pyrene	33	0.40	2.0	ug/L	40.0		82.4	70-130	2.28	25	
1,2,4-Trichlorobenzene	25	0.60	2.0	ug/L	40.0		63.1	51-96	2.69	25	
2,4,5-Trichlorophenol	33	0.60	2.0	ug/L	40.0		81.5	65-125	6.07	25	
2,4,6-Trichlorophenol	32	0.70	2.0	ug/L	40.0		78.8	68-116	6.81	25	
Surrogate: 2-Fluorobiphenyl	36.2			ug/L	40.0		90.6	42-115			
Surrogate: 2-Fluorophenol	21.3			ug/L	40.0		53.2	21-87			
Surrogate: Nitrobenzene-d5	36.3			ug/L	40.0		90.8	50-110			
Surrogate: p-Terphenyl-d14	44.7			ug/L	40.0		112	61-134			
Surrogate: Phenol-d6	12.0			ug/L	40.0		30.1	20-52			
Surrogate: 2,4,6-Tribromophenol	46.2			ug/L	40.0		115	54-135			

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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 U9142CUFS	Reported: 06/27/19 16:10
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**Benzidines 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 AF93110 - SVOAs in Water GCMS**

**Blank (AF93110-BLK1)** Prepared: 06/04/19 Analyzed: 06/06/19

Benzidine	ND	3.0	5.0	ug/L							U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L							U
Surrogate: 2-Fluorobiphenyl	32.1			ug/L	40.0		80.3	42-115			
Surrogate: Nitrobenzene-d5	32.5			ug/L	40.0		81.2	50-110			
Surrogate: p-Terphenyl-d14	33.3			ug/L	40.0		83.2	61-134			

**LCS (AF93110-BS1)** Prepared: 06/04/19 Analyzed: 06/06/19

Benzidine	38.1	3.0	5.0	ug/L	79.4		48.1	42-125			
3,3'-Dichlorobenzidine	63.7	2.0	5.0	ug/L	79.4		80.3	42-125			
Surrogate: 2-Fluorobiphenyl	37.8			ug/L	40.0		94.4	42-115			
Surrogate: Nitrobenzene-d5	38.9			ug/L	40.0		97.2	50-110			
Surrogate: p-Terphenyl-d14	39.2			ug/L	40.0		98.0	61-134			

**LCS Dup (AF93110-BSD1)** Prepared: 06/04/19 Analyzed: 06/06/19

Benzidine	40.6	3.0	5.0	ug/L	79.4		51.1	42-125	6.15	25	
3,3'-Dichlorobenzidine	73.6	2.0	5.0	ug/L	79.4		92.8	42-125	14.4	25	
Surrogate: 2-Fluorobiphenyl	37.2			ug/L	40.0		93.0	42-115			
Surrogate: Nitrobenzene-d5	39.6			ug/L	40.0		98.9	50-110			
Surrogate: p-Terphenyl-d14	38.6			ug/L	40.0		96.6	61-134			





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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 U9142CUFS	Reported: 06/27/19 16:10
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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 AF93286 - SVOAs in Water GCMS**

**Blank (AF93286-BLK1)**

Prepared: 06/03/19 Analyzed: 06/11/19

Acenaphthylene	ND	0.20	0.20	ug/L							U
Anthracene	ND	0.090	0.20	ug/L							U
Benzo (a) anthracene	ND	0.20	0.20	ug/L							U
Benzo (a) pyrene	ND	0.20	0.20	ug/L							U
Benzo (b) fluoranthene	ND	0.20	0.20	ug/L							U
Benzo (g,h,i) perylene	ND	0.10	0.20	ug/L							U
Benzo (k) fluoranthene	ND	0.20	0.20	ug/L							U
Chrysene	ND	0.20	0.20	ug/L							U
Dibenz (a,h) anthracene	ND	0.10	0.20	ug/L							U
Fluorene	ND	0.20	0.20	ug/L							U
Indeno (1,2,3-cd) pyrene	ND	0.030	0.20	ug/L							U
Phenanthrene	ND	0.10	0.20	ug/L							U
Pyrene	ND	0.20	0.20	ug/L							U
Surrogate: 2-Fluorobiphenyl	46.1			ug/L	40.0		115	42-115			
Surrogate: Nitrobenzene-d5	35.8			ug/L	40.0		89.4	45-110			
Surrogate: p-Terphenyl-d14	41.6			ug/L	40.0		104	61-134			

**LCS (AF93286-BS1)**

Prepared: 06/03/19 Analyzed: 06/11/19

Benzo (a) anthracene	42.2	0.20	0.20	ug/L	40.0		106	52-110			
Pyrene	29.9	0.20	0.20	ug/L	40.0		74.8	59-119			
Surrogate: 2-Fluorobiphenyl	22.0			ug/L	40.0		54.9	42-115			
Surrogate: Nitrobenzene-d5	18.8			ug/L	40.0		46.9	45-110			
Surrogate: p-Terphenyl-d14	28.7			ug/L	40.0		71.8	61-134			

**LCS Dup (AF93286-BSD1)**

Prepared: 06/03/19 Analyzed: 06/11/19

Benzo (a) anthracene	37.7	0.20	0.20	ug/L	40.0		94.3	52-110	11.3	25	
Pyrene	27.3	0.20	0.20	ug/L	40.0		68.2	59-119	9.09	25	
Surrogate: 2-Fluorobiphenyl	22.4			ug/L	40.0		56.1	42-115			
Surrogate: Nitrobenzene-d5	20.4			ug/L	40.0		51.0	45-110			
Surrogate: p-Terphenyl-d14	30.1			ug/L	40.0		75.2	61-134			

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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 U9142CUFS

Reported:  
06/27/19 16:10

### Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
T-02	Sample analyzed outside of recommended holding time per client.
U	Analyte included in analysis, but not detected at or above MDL.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
MDL	Method detection limit
Rec	Recovery
RPD	Relative Percent Difference



**Alpha**

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# Chain of Custody Record

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

Lab No. 19E3136 Page      of     

Report to:		Invoice to (if different):		Project Info for Report:		Signature below authorizes work under terms stated on reverse side.																																																																																																																																																																																																	
Company: Sample Traps LLC		Company:		Project ID: QC- 1 Liter BRA Buttress		<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="10">Analyses Requested</th> <th>TAT</th> <th rowspan="5" style="writing-mode: vertical-rl; text-orientation: mixed;">Lab Approval Required For Rush TATs</th> <th>Sample Notes (lab use only)</th> </tr> <tr> <td colspan="10">10 days <input checked="checked" type="radio"/></td> <td rowspan="5" style="writing-mode: vertical-rl; text-orientation: mixed;">Temperature:  deg. C  Shipment Method:  Custody Seals: Y / N</td> </tr> <tr> <td colspan="10">RUSH: 5 days <input type="radio"/></td> </tr> <tr> <td colspan="10">48 hours <input type="radio"/></td> </tr> <tr> <td colspan="10">Other:     days <input type="radio"/></td> </tr> <tr> <td colspan="10" style="font-size: small;">include j-flag reporting</td> </tr> <tr> <td colspan="2">Attn: Quality Control Manager</td> <td colspan="2">Attn:</td> <td colspan="2">Project No: Lot number U9142CUFS</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">: Total Number of Containers</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">608 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8141 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8151 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 Sample Traps Group</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 PNA SIM Sample Traps</td> <td colspan="3" rowspan="5" style="font-size: small;">Sample Notes or CDPH Source Numbers:</td> </tr> <tr> <td colspan="2">Address:</td> <td colspan="2">Address:</td> <td colspan="2">PO/Reference :</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">608 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8141 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8151 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 Sample Traps Group</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 PNA SIM Sample Traps</td> </tr> <tr> <td colspan="2">Phone/Fax:</td> <td colspan="2">Phone/Fax:</td> <td colspan="2"> </td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">608 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8141 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8151 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 Sample Traps Group</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 PNA SIM Sample Traps</td> </tr> <tr> <td colspan="2">Email Address: admin@sampletraps.com</td> <td colspan="2">Email Address:</td> <td colspan="2"> </td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">608 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8141 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8151 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 Sample Traps Group</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 PNA SIM Sample Traps</td> </tr> <tr> <td colspan="2"> </td> <td colspan="2"> </td> <td colspan="2"> </td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">608 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8141 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8151 Sample Traps</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 Sample Traps Group</td> <td colspan="1" style="writing-mode: vertical-rl; text-orientation: mixed;">8270 PNA SIM Sample Traps</td> </tr> <tr> <th colspan="2" rowspan="2">Samplers Signature:  Print:</th> <th colspan="4">Container:</th> <th colspan="4">Preservative:</th> <th colspan="2">Matrix:</th> <th colspan="3" rowspan="2">Sample Notes or CDPH Source Numbers:</th> </tr> <tr> <th>40ml VOA</th> <th>Poly</th> <th>Glass bottle</th> <th>Glass Jar</th> <th>HCL</th> <th>Methanol</th> <th>Na Bisulfate</th> <th>Other</th> <th>None</th> <th>Water</th> <th>Container</th> </tr> <tr> <th colspan="2" rowspan="2">Sample Identification</th> <th colspan="2">Sampled:</th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> </tr> <tr> <th>Date</th> <th>Time</th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> <th> </th> </tr> </table>										Analyses Requested										TAT	Lab Approval Required For Rush TATs	Sample Notes (lab use only)	10 days <input checked="checked" type="radio"/>										Temperature:  deg. 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CDPH Write On EDT Transmission?  Yes  No

State System Number: \_\_\_\_\_  
If "Y" please enter the Source Number(s) in the column above

CA Geotracker EDF Report?  Yes  No

Global ID: \_\_\_\_\_ Sampling Company Log Code: \_\_\_\_\_  
EDF to (Email Address): \_\_\_\_\_  
Travel and Site Time: \_\_\_\_\_ Mileage: \_\_\_\_\_ Misc. Supplies: \_\_\_\_\_

Date: 5-29-19 Time: 0800

Relinquished by: Per Client  
Received by: [Signature]