



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

23 January 2023

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 1 Liter BRA Buttress

Work Order: 22L4010

Enclosed are the results of analyses for samples received by the laboratory on 12/28/22 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chelsea L. Sandelin

Project Manager



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 1 Liter BRA Buttress
Project Number: Lot Number U2361CUFS

Reported:
01/23/23 15:34

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | Service Center

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
U2361CUFS - 01	22L4010-01	Water	12/28/22 12:00	12/28/22 12:00
U2361CUFS - 02	22L4010-02	Water	12/28/22 12:00	12/28/22 12:00
U2361CUFS - 03	22L4010-03	Water	12/28/22 12:00	12/28/22 12:00
U2361CUFS - 04	22L4010-04	Water	12/28/22 12:00	12/28/22 12:00
U2361CUFS - 05	22L4010-05	Water	12/28/22 12:00	12/28/22 12:00



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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 U2361CUFS

Reported:
 01/23/23 15:34

Organochlorine Pesticides and PCBs by EPA Method 608.3

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
U2361CUFS - 01 (22L4010-01) Water Sampled: 12/28/22 12:00 Received: 12/28/22 12:00												
Aldrin	ND	0.0020	0.0050	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
alpha-BHC	ND	0.0040	0.010	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
beta-BHC	ND	0.0040	0.0050	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
delta-BHC	ND	0.0020	0.0050	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
gamma-BHC (Lindane)	ND	0.0040	0.010	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Chlordane (tech)	ND	0.010	0.050	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
4,4'-DDD	ND	0.0050	0.020	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
4,4'-DDE	ND	0.0040	0.020	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
4,4'-DDT	ND	0.0030	0.010	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Dieldrin	ND	0.0050	0.010	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Endosulfan I	ND	0.0040	0.010	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Endosulfan II	ND	0.0050	0.010	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Endosulfan sulfate	ND	0.0030	0.050	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Endrin	ND	0.0080	0.010	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Endrin aldehyde	ND	0.0040	0.040	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Heptachlor	ND	0.0050	0.010	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Heptachlor epoxide	ND	0.0090	0.010	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Methoxychlor	ND	0.010	0.50	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Toxaphene	ND	0.20	0.50	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
PCB-1016	ND	0.10	0.50	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
PCB-1221	ND	0.10	0.50	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
PCB-1232	ND	0.10	0.50	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
PCB-1242	ND	0.10	0.50	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
PCB-1248	ND	0.10	0.50	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
PCB-1254	ND	0.10	0.50	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
PCB-1260	ND	0.10	0.50	ug/L	1	AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	1551	U
Surrogate: Dibutylchlorodate		66.4 %	10-147			AA33155	01/03/23 06:48	01/10/23 17:11	EPA 608.3	NBH	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 U2361CUFS

Reported:
 01/23/23 15:34

Chlorinated Herbicides by EPA Method 8151A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
U2361CUFS - 03 (22L4010-03) Water Sampled: 12/28/22 12:00 Received: 12/28/22 12:00												
2,4-D	ND	1.0	1.0	ug/L	1	AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	1551	U
2,4-DB	ND	1.0	4.0	ug/L	1	AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	1551	U
2,4,5-T	ND	0.20	0.50	ug/L	1	AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	1551	U
2,4,5-TP (Silvex)	ND	0.20	0.50	ug/L	1	AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	1551	U
Dalapon	ND	2.0	6.0	ug/L	1	AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	1551	U
Dicamba	ND	0.10	0.40	ug/L	1	AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	1551	U
Dinoseb	ND	0.20	1.0	ug/L	1	AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	1551	U
Dichlorprop	ND	0.40	1.0	ug/L	1	AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	1551	U
Pentachlorophenol	ND	0.20	0.20	ug/L	1	AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	1551	U
Surrogate: DCAA			94.1 %	62-124		AA33189	01/03/23 11:15	01/06/23 20:55	EPA 8151A	NBH	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 U2361CUFS

Reported:
 01/23/23 15:34

Organophosphorus Compounds by EPA Method 8141A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
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U2361CUFS - 02 (22L4010-02) Water **Sampled: 12/28/22 12:00** **Received: 12/28/22 12:00**

Azinphos methyl	ND	0.40	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Chlorpyrifos	ND	0.70	1.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Demeton-o	ND	0.20	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Demeton-s	ND	0.30	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Diazinon	ND	0.30	0.50	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Dichlorvos	ND	0.40	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Dimethoate	ND	1.0	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Disulfoton	ND	0.30	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Malathion	ND	0.80	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Parathion	ND	0.90	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Parathion-methyl	ND	0.40	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Phorate	ND	0.40	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Ronnel	ND	0.30	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Stirofos	ND	0.30	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Thionazin	ND	1.0	2.0	ug/L	1	AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	U
Surrogate: Tributyl phosphate		74.2 %	37-115			AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	1551	
Surrogate: Triphenyl phosphate		78.4 %	44-145			AA33299	01/04/23 06:43	01/12/23 00:08	EPA 8141A	NBH	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 U2361CUFS	Reported: 01/23/23 15:34
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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
U2361CUFS - 04 (22L4010-04) Water Sampled: 12/28/22 12:00 Received: 12/28/22 12:00												
Acenaphthene	ND	0.60	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Acenaphthylene	ND	0.50	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Anthracene	ND	0.40	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Benzo (a) anthracene	ND	0.40	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Benzo (a) pyrene	ND	0.50	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Benzo (b) fluoranthene	ND	0.60	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Benzo (g,h,i) perylene	ND	0.90	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Benzo (k) fluoranthene	ND	0.50	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Bis(2-chloroethoxy)methane	ND	0.90	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Bis(2-chloroethyl)ether	ND	0.90	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Bis(2-chloroisopropyl)ether	ND	1.0	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Bis(2-ethylhexyl)phthalate	ND	3.0	5.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
4-Bromophenyl phenyl ether	ND	1.0	4.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Butyl benzyl phthalate	ND	0.60	5.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2-Chloronaphthalene	ND	0.60	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2-Chlorophenol	ND	0.70	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
4-Chlorophenyl phenyl ether	ND	0.90	4.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Chrysene	ND	0.80	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Di-n-butyl phthalate	5.6	0.90	10	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	J
Di-n-octyl phthalate	ND	0.60	10	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Dibenz (a,h) anthracene	ND	0.80	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Dibenzofuran	ND	0.90	4.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
1,2-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
1,3-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
1,4-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2,4-Dichlorophenol	ND	0.70	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Diethyl phthalate	ND	0.30	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Dimethyl phthalate	ND	0.80	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2,4-Dimethylphenol	ND	1.0	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
4,6-Dinitro-2-methylphenol	ND	3.0	4.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2,4-Dinitrophenol	ND	5.0	5.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2,4-Dinitrotoluene	ND	0.80	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2,6-Dinitrotoluene	ND	0.80	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Fluoranthene	ND	0.80	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Fluorene	ND	0.80	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Hexachlorobenzene	ND	0.90	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	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 U2361CUFS	Reported: 01/23/23 15:34
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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
U2361CUFS - 04 (22L4010-04) Water Sampled: 12/28/22 12:00 Received: 12/28/22 12:00												
Hexachlorobutadiene	ND	0.80	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Hexachlorocyclopentadiene	ND	4.0	4.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Hexachloroethane	ND	0.60	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Indeno (1,2,3-cd) pyrene	ND	0.60	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Isophorone	ND	0.30	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2-Methylnaphthalene	ND	1.0	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2-Methylphenol (o-cresol)	ND	0.60	5.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
3 & 4-Methylphenol (m & p-cresol)	ND	0.60	5.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
N-Nitrosodi-n-propylamine	ND	0.80	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
N-Nitrosodimethylamine	ND	0.30	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
N-Nitrosodiphenylamine	ND	1.0	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Naphthalene	ND	0.70	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2-Nitroaniline	ND	1.0	20	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
3-Nitroaniline	ND	5.0	50	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
4-Nitroaniline	ND	4.0	20	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2-Nitrophenol	ND	0.90	10	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
4-Nitrophenol	ND	3.0	5.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Nitrobenzene	ND	0.90	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Pentachlorophenol	ND	4.0	5.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Phenanthrene	ND	0.90	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Phenol	ND	0.50	1.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Pyrene	ND	0.40	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
1,2,4-Trichlorobenzene	ND	0.60	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2,4,5-Trichlorophenol	ND	0.60	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
2,4,6-Trichlorophenol	ND	0.70	2.0	ug/L	1	AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	U
Surrogate: 2-Fluorobiphenyl		88.8 %	27-119			AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	
Surrogate: 2-Fluorophenol		18.8 %	7-85			AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	
Surrogate: Nitrobenzene-d5		89.0 %	15-314			AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	
Surrogate: p-Terphenyl-d14		103 %	36-141			AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	
Surrogate: Phenol-d6		17.3 %	1-65			AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	1551	
Surrogate: 2,4,6-Tribromophenol		31.5 %	4-168			AA33298	01/04/23 06:00	01/10/23 06:19	EPA 8270C	JV	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 U2361CUFS

Reported:
 01/23/23 15:34

Benzidines by EPA Method 8270C

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
U2361CUFS - 04 (22L4010-04) Water Sampled: 12/28/22 12:00 Received: 12/28/22 12:00												
Benzidine	ND	3.0	5.0	ug/L	1	AA33156	01/03/23 06:50	01/09/23 20:34	EPA 8270C	NBH	1551	U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L	1	AA33156	01/03/23 06:50	01/09/23 20:34	EPA 8270C	NBH	1551	U
<i>Surrogate: 2-Fluorobiphenyl</i>		75.3 %	27-119			AA33156	01/03/23 06:50	01/09/23 20:34	EPA 8270C	NBH	1551	
<i>Surrogate: Nitrobenzene-d5</i>		78.5 %	15-314			AA33156	01/03/23 06:50	01/09/23 20:34	EPA 8270C	NBH	1551	
<i>Surrogate: p-Terphenyl-d14</i>		82.0 %	36-141			AA33156	01/03/23 06:50	01/09/23 20:34	EPA 8270C	NBH	1551	



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Sample Traps, LLC
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 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 1 Liter BRA Buttress
 Project Number: Lot Number U2361CUFS

Reported:
 01/23/23 15:34

Semivolatile Organic Compounds by EPA Method 8270C SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
U2361CUFS - 05 (22L4010-05) Water Sampled: 12/28/22 12:00 Received: 12/28/22 12:00												
Acenaphthylene	ND	0.20	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Anthracene	ND	0.090	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Benzo (a) anthracene	ND	0.20	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Benzo (a) pyrene	ND	0.20	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Benzo (b) fluoranthene	ND	0.20	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Benzo (g,h,i) perylene	ND	0.10	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Benzo (k) fluoranthene	ND	0.20	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Chrysene	ND	0.20	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Dibenz (a,h) anthracene	ND	0.10	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Fluorene	ND	0.20	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Indeno (1,2,3-cd) pyrene	ND	0.030	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Phenanthrene	ND	0.10	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Pyrene	ND	0.20	0.20	ug/L	1	AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	U
Surrogate: 2-Fluorobiphenyl		88.4 %	24-119			AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	
Surrogate: Nitrobenzene-d5		164 %	15-314			AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	
Surrogate: p-Terphenyl-d14		170 %	37-139			AA34167	01/04/23 06:00	01/18/23 00:58	EPA 8270SIM	JV	1551	S-GC



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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 U2361CUFS

Reported:
 01/23/23 15:34

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 AA33155 - SVOAs in Water GC

Blank (AA33155-BLK1)

Prepared: 01/03/23 Analyzed: 01/10/23

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'-DDT	ND	0.0030	0.010	ug/L							U
4,4'-DDE	ND	0.0040	0.020	ug/L							U
4,4'-DDD	ND	0.0050	0.020	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	0.10	0.50	ug/L							U
PCB-1221	ND	0.10	0.50	ug/L							U
PCB-1232	ND	0.10	0.50	ug/L							U
PCB-1242	ND	0.10	0.50	ug/L							U
PCB-1248	ND	0.10	0.50	ug/L							U
PCB-1254	ND	0.10	0.50	ug/L							U
PCB-1260	ND	0.10	0.50	ug/L							U
Surrogate: Dibutylchlorodate	0.280			ug/L	0.400		70.0	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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA33155 - SVOAs in Water GC

LCS (AA33155-BS1)

Prepared: 01/03/23 Analyzed: 01/10/23

Aldrin	0.114	0.0020	0.0050	ug/L	0.240		47.3	42-140			
alpha-BHC	0.172	0.0040	0.010	ug/L	0.240		71.9	37-140			
beta-BHC	0.196	0.0040	0.0050	ug/L	0.240		81.6	17-147			
delta-BHC	0.221	0.0020	0.0050	ug/L	0.240		92.2	19-140			
gamma-BHC (Lindane)	0.189	0.0040	0.010	ug/L	0.240		78.9	32-140			
4,4'-DDT	0.228	0.0030	0.010	ug/L	0.240		95.2	31-141			
4,4'-DDE	0.201	0.0040	0.020	ug/L	0.240		83.8	30-145			
4,4'-DDD	0.192	0.0050	0.020	ug/L	0.240		79.8	25-160			
Dieldrin	0.209	0.0050	0.010	ug/L	0.240		87.0	36-146			
Endosulfan I	0.209	0.0040	0.010	ug/L	0.240		87.1	45-153			
Endosulfan II	0.209	0.0050	0.010	ug/L	0.240		87.0	0-202			
Endosulfan sulfate	0.207	0.0030	0.050	ug/L	0.240		86.1	26-144			
Endrin	0.278	0.0080	0.010	ug/L	0.240		116	30-147			
Endrin aldehyde	0.216	0.0040	0.040	ug/L	0.240		89.9	45-140			
Heptachlor	0.179	0.0050	0.010	ug/L	0.240		74.5	34-140			
Heptachlor epoxide	0.203	0.0090	0.010	ug/L	0.240		84.6	37-142			
Methoxychlor	0.222	0.010	0.50	ug/L	0.240		92.6	45-140			J
Surrogate: Dibutylchloroendate	0.296			ug/L	0.400		74.1	10-147			

Matrix Spike (AA33155-MS1)

Source: 22L4158-02

Prepared: 01/03/23 Analyzed: 01/10/23

Aldrin	0.156	0.0020	0.0050	ug/L	0.240	ND	64.9	42-140			
alpha-BHC	0.122	0.0040	0.010	ug/L	0.240	ND	50.7	37-140			
beta-BHC	0.107	0.0040	0.0050	ug/L	0.240	ND	44.7	17-147			
delta-BHC	0.118	0.0020	0.0050	ug/L	0.240	ND	49.0	19-140			
gamma-BHC (Lindane)	0.148	0.0040	0.010	ug/L	0.240	ND	61.8	32-140			
4,4'-DDE	0.147	0.0040	0.020	ug/L	0.240	ND	61.3	30-145			
4,4'-DDD	0.141	0.0050	0.020	ug/L	0.240	ND	58.9	31-141			
4,4'-DDT	0.172	0.0030	0.010	ug/L	0.240	ND	71.5	25-160			
Dieldrin	0.163	0.0050	0.010	ug/L	0.240	ND	67.7	36-146			
Endosulfan I	0.164	0.0040	0.010	ug/L	0.240	ND	68.5	45-153			
Endosulfan II	0.155	0.0050	0.010	ug/L	0.240	ND	64.6	2-202			
Endosulfan sulfate	0.129	0.0030	0.050	ug/L	0.240	ND	53.8	26-144			
Endrin	0.184	0.0080	0.010	ug/L	0.240	ND	76.8	30-147			
Endrin aldehyde	0.120	0.0040	0.040	ug/L	0.240	ND	50.0	45-140			
Heptachlor	0.130	0.0050	0.010	ug/L	0.240	ND	54.0	34-140			
Heptachlor epoxide	0.159	0.0090	0.010	ug/L	0.240	ND	66.4	37-142			

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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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA33155 - SVOAs in Water GC

Matrix Spike (AA33155-MS1) Source: 22L4158-02 Prepared: 01/03/23 Analyzed: 01/10/23

Methoxychlor	0.174	0.010	0.50	ug/L	0.240	ND	72.7	45-140			J
Surrogate: Dibutylchloroendate	0.209			ug/L	0.400		52.2	10-147			

Matrix Spike Dup (AA33155-MSD1) Source: 22L4158-02 Prepared: 01/03/23 Analyzed: 01/10/23

Aldrin	0.142	0.0020	0.0050	ug/L	0.240	ND	59.0	42-140	9.54	35	
alpha-BHC	0.154	0.0040	0.010	ug/L	0.240	ND	64.1	37-140	23.2	36	
beta-BHC	0.116	0.0040	0.0050	ug/L	0.240	ND	48.1	17-147	7.37	44	
delta-BHC	0.126	0.0020	0.0050	ug/L	0.240	ND	52.4	19-140	6.66	52	
gamma-BHC (Lindane)	0.161	0.0040	0.010	ug/L	0.240	ND	67.2	32-140	8.37	39	
4,4'-DDE	0.167	0.0040	0.020	ug/L	0.240	ND	69.6	30-145	12.6	35	
4,4'-DDT	0.194	0.0030	0.010	ug/L	0.240	ND	80.8	25-160	12.2	42	
4,4'-DDD	0.160	0.0050	0.020	ug/L	0.240	ND	66.7	31-141	12.3	39	
Dieldrin	0.182	0.0050	0.010	ug/L	0.240	ND	76.0	36-146	11.5	49	
Endosulfan I	0.184	0.0040	0.010	ug/L	0.240	ND	76.6	45-153	11.2	28	
Endosulfan II	0.176	0.0050	0.010	ug/L	0.240	ND	73.2	2-202	12.5	53	
Endosulfan sulfate	0.147	0.0030	0.050	ug/L	0.240	ND	61.2	26-144	12.7	38	
Endrin	0.208	0.0080	0.010	ug/L	0.240	ND	86.7	30-147	12.2	48	
Endrin aldehyde	0.116	0.0040	0.040	ug/L	0.240	ND	48.5	45-140	3.20	35	
Heptachlor	0.142	0.0050	0.010	ug/L	0.240	ND	59.2	34-140	9.33	43	
Heptachlor epoxide	0.178	0.0090	0.010	ug/L	0.240	ND	74.1	37-142	10.9	36	
Methoxychlor	0.202	0.010	0.50	ug/L	0.240	ND	84.0	45-140	14.5	35	J
Surrogate: Dibutylchloroendate	0.275			ug/L	0.400		68.7	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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA33189 - Herbicides

Blank (AA33189-BLK1)		Prepared: 01/03/23 Analyzed: 01/06/23									
2,4-D	ND	1.0	1.0	ug/L							U
2,4-DB	ND	1.0	4.0	ug/L							U
2,4,5-T	ND	0.20	0.50	ug/L							U
2,4,5-TP (Silvex)	ND	0.20	0.50	ug/L							U
Dalapon	ND	2.0	6.0	ug/L							U
Dicamba	ND	0.10	0.40	ug/L							U
Dinoseb	ND	0.20	1.0	ug/L							U
Dichlorprop	ND	0.40	1.0	ug/L							U
Pentachlorophenol	ND	0.20	0.20	ug/L							U
Surrogate: DCAA	11.3			ug/L	12.5		90.5	62-124			

Calibration Check (AA33189-CCV1)		Prepared: 01/03/23 Analyzed: 01/06/23									
2,4-D	10.3	1.0	1.0	ug/L	10.6		97.9	85-115			
2,4-DB	14.7	1.0	4.0	ug/L	14.1		104	85-115			
2,4,5-T	1.75	0.20	0.50	ug/L	1.76		99.2	85-115			
2,4,5-TP (Silvex)	1.82	0.20	0.50	ug/L	1.76		103	85-115			
Dalapon	22.6	2.0	6.0	ug/L	22.9		98.7	85-115			
Dicamba	1.73	0.10	0.40	ug/L	1.76		98.3	85-115			
Dinoseb	3.54	0.20	1.0	ug/L	3.52		100	85-115			
Dichlorprop	5.39	0.40	1.0	ug/L	5.28		102	85-115			
Pentachlorophenol	1.26	0.20	0.20	ug/L	1.32		95.3	85-115			
Surrogate: DCAA	42.3			ug/L	45.0		94.0	85-115			

Matrix Spike (AA33189-MS1)		Source: 22L3073-01		Prepared: 01/03/23 Analyzed: 01/06/23							
2,4-D	11.4	1.0	1.0	ug/L	10.6	ND	108	70-130			
2,4-DB	10.1	1.0	4.0	ug/L	14.1	ND	72.0	70-130			
2,4,5-T	1.75	0.20	0.50	ug/L	1.76	ND	99.7	70-130			
2,4,5-TP (Silvex)	1.94	0.20	0.50	ug/L	1.76	ND	110	70-130			
Dalapon	25.8	2.0	6.0	ug/L	22.9	ND	113	70-130			
Dicamba	1.98	0.10	0.40	ug/L	1.76	ND	113	70-130			
Dinoseb	4.21	0.20	1.0	ug/L	3.52	ND	120	70-130			
Dichlorprop	6.17	0.40	1.0	ug/L	5.28	ND	117	70-130			
Pentachlorophenol	1.45	0.20	0.20	ug/L	1.32	ND	110	70-130			
Surrogate: DCAA	12.3			ug/L	12.5		98.3	62-124			

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 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 1 Liter BRA Buttress
 Project Number: Lot Number U2361CUFS

Reported:
 01/23/23 15:34

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 AA33189 - Herbicides

Reference (AA33189-SRM1)

Prepared: 01/03/23 Analyzed: 01/06/23

2,4-D	1.81	1.0	1.0	ug/L	1.92		94.4	0-200			
2,4-DB	6.89	1.0	4.0	ug/L	7.68		89.7	0-200			
2,4,5-T	0.962	0.20	0.50	ug/L	0.960		100	0-200			
2,4,5-TP (Silvex)	0.970	0.20	0.50	ug/L	0.960		101	0-200			
Dalapon	14.0	2.0	6.0	ug/L	12.5		112	0-200			
Dicamba	0.955	0.10	0.40	ug/L	0.960		99.5	0-200			
Dinoseb	4.13	0.20	1.0	ug/L	3.92		105	0-200			
Dichlorprop	3.45	0.40	1.0	ug/L	2.88		120	0-200			
Pentachlorophenol	0.942	0.20	0.20	ug/L	0.960		98.2	0-200			
Surrogate: DCAA	11.6			ug/L	12.5		92.9	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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA33299 - SVOAs in Water GC

Blank (AA33299-BLK1)

Prepared: 01/04/23 Analyzed: 01/11/23

Azinphos methyl	ND	0.40	2.0	ug/L							U
Chlorpyrifos	ND	0.70	1.0	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
Malathion	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
Surrogate: Tributyl phosphate	1.53			ug/L	2.00		76.3	37-115			
Surrogate: Triphenyl phosphate	1.66			ug/L	2.00		82.8	44-145			

LCS (AA33299-BS1)

Prepared: 01/04/23 Analyzed: 01/11/23

Azinphos methyl	1.61	0.40	2.0	ug/L	2.00		80.5	42-147			J
Chlorpyrifos	1.62	0.70	1.0	ug/L	2.00		81.2	50-134			
Demeton-o	0.458	0.20	2.0	ug/L	0.750		61.1	18-128			J
Demeton-s	0.808	0.30	2.0	ug/L	1.25		64.7	43-125			J
Diazinon	1.46	0.30	0.50	ug/L	2.00		72.9	50-121			
Dichlorvos	1.84	0.40	2.0	ug/L	2.00		91.8	77-143			J
Dimethoate	1.45	1.0	2.0	ug/L	2.00		72.3	37-133			J
Disulfoton	1.40	0.30	2.0	ug/L	2.00		69.8	50-119			J
Malathion	1.52	0.80	2.0	ug/L	2.00		76.2	39-127			J
Parathion	1.57	0.90	2.0	ug/L	2.00		78.3	33-137			J
Parathion-methyl	1.50	0.40	2.0	ug/L	2.00		75.1	52-134			J
Phorate	1.40	0.40	2.0	ug/L	2.00		69.9	58-119			J
Ronnel	1.49	0.30	2.0	ug/L	2.00		74.4	41-135			J
Stirofos	1.64	0.30	2.0	ug/L	2.00		82.1	34-151			J
Thionazin	1.48	1.0	2.0	ug/L	2.00		74.1	60-118			J
Surrogate: Tributyl phosphate	1.49			ug/L	2.00		74.3	37-115			
Surrogate: Triphenyl phosphate	1.69			ug/L	2.00		84.4	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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA33299 - SVOAs in Water GC

LCS Dup (AA33299-BSD1)

Prepared: 01/04/23 Analyzed: 01/11/23

Azinphos methyl	1.64	0.40	2.0	ug/L	2.00		82.0	42-147	1.81	30	J
Chlorpyrifos	1.70	0.70	1.0	ug/L	2.00		84.9	50-134	4.40	30	
Demeton-o	0.455	0.20	2.0	ug/L	0.750		60.7	18-128	0.636	30	J
Demeton-s	0.837	0.30	2.0	ug/L	1.25		67.0	43-125	3.49	30	J
Diazinon	1.49	0.30	0.50	ug/L	2.00		74.5	50-121	2.17	30	
Dichlorvos	1.87	0.40	2.0	ug/L	2.00		93.7	77-143	2.02	30	J
Dimethoate	1.52	1.0	2.0	ug/L	2.00		76.1	37-133	5.16	30	J
Disulfoton	1.41	0.30	2.0	ug/L	2.00		70.6	50-119	1.12	30	J
Malathion	1.59	0.80	2.0	ug/L	2.00		79.3	39-127	3.97	30	J
Parathion	1.62	0.90	2.0	ug/L	2.00		80.8	33-137	3.21	30	J
Parathion-methyl	1.56	0.40	2.0	ug/L	2.00		78.0	52-134	3.82	30	J
Phorate	1.36	0.40	2.0	ug/L	2.00		68.0	58-119	2.75	30	J
Ronnel	1.54	0.30	2.0	ug/L	2.00		77.0	41-135	3.37	30	J
Stirofos	1.66	0.30	2.0	ug/L	2.00		83.2	34-151	1.31	30	J
Thionazin	1.46	1.0	2.0	ug/L	2.00		73.2	60-118	1.17	30	J
Surrogate: Tributyl phosphate	1.47			ug/L	2.00		73.3	37-115			
Surrogate: Triphenyl phosphate	1.70			ug/L	2.00		85.1	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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA33298 - SVOAs in Water GCMS

Blank (AA33298-BLK1)

Prepared: 01/04/23 Analyzed: 01/10/23

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
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
Fluorene	ND	0.80	2.0	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 AA33298 - SVOAs in Water GCMS

Blank (AA33298-BLK1)

Prepared: 01/04/23 Analyzed: 01/10/23

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	35.9			ug/L	40.0		89.6	27-119			
Surrogate: 2-Fluorophenol	14.7			ug/L	40.0		36.6	7-85			
Surrogate: Nitrobenzene-d5	36.6			ug/L	40.0		91.6	15-314			
Surrogate: p-Terphenyl-d14	41.2			ug/L	40.0		103	36-141			
Surrogate: Phenol-d6	10.7			ug/L	40.0		26.8	1-65			
Surrogate: 2,4,6-Tribromophenol	23.8			ug/L	40.0		59.5	4-168			

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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 AA33298 - SVOAs in Water GCMS

LCS (AA33298-BS1)

Prepared: 01/04/23 Analyzed: 01/10/23

Acenaphthene	33	0.60	1.0	ug/L	40.0		82.1	60-132			
Acenaphthylene	33	0.50	2.0	ug/L	40.0		81.6	54-126			
Anthracene	35	0.40	2.0	ug/L	40.0		88.6	43-120			
Benzo (a) anthracene	37	0.40	2.0	ug/L	40.0		92.8	42-133			
Benzo (a) pyrene	37	0.50	2.0	ug/L	40.0		92.6	32-148			
Benzo (b) fluoranthene	39	0.60	2.0	ug/L	40.0		96.9	42-140			
Benzo (g,h,i) perylene	36	0.90	2.0	ug/L	40.0		89.6	2-195			
Benzo (k) fluoranthene	38	0.50	2.0	ug/L	40.0		94.0	25-146			
Bis(2-chloroethoxy)methane	31	0.90	2.0	ug/L	40.0		76.6	49-165			
Bis(2-chloroethyl)ether	29	0.90	1.0	ug/L	40.0		71.3	43-126			
Bis(2-chloroisopropyl)ether	28	1.0	1.0	ug/L	40.0		69.0	63-139			
Bis(2-ethylhexyl)phthalate	41	3.0	5.0	ug/L	40.0		103	29-137			
4-Bromophenyl phenyl ether	35	1.0	4.0	ug/L	40.0		87.9	65-120			
Butyl benzyl phthalate	13	0.60	5.0	ug/L	40.0		33.7	2-140			
4-Chloro-3-methylphenol	28	1.0	1.0	ug/L	40.0		69.7	41-128			
2-Chloronaphthalene	31	0.60	2.0	ug/L	40.0		77.6	65-120			
2-Chlorophenol	21	0.70	2.0	ug/L	40.0		52.0	36-120			
4-Chlorophenyl phenyl ether	33	0.90	4.0	ug/L	40.0		83.0	38-145			
Chrysene	37	0.80	2.0	ug/L	40.0		92.9	44-140			
Di-n-butyl phthalate	30	0.90	10	ug/L	40.0		75.9	8-120			
Di-n-octyl phthalate	42	0.60	10	ug/L	40.0		106	19-132			
Dibenz (a,h) anthracene	36	0.80	2.0	ug/L	40.0		89.7	2-200			
Dibenzofuran	32	0.90	4.0	ug/L	40.0		79.9	57-107			
1,2-Dichlorobenzene	29	0.60	1.0	ug/L	40.0		71.5	33-93			
1,3-Dichlorobenzene	28	0.60	1.0	ug/L	40.0		69.0	31-92			
1,4-Dichlorobenzene	27	0.60	1.0	ug/L	40.0		68.3	32-91			
2,4-Dichlorophenol	23	0.70	2.0	ug/L	40.0		56.9	53-122			
Diethyl phthalate	18	0.30	2.0	ug/L	40.0		45.6	2-120			
Dimethyl phthalate	4.4	0.80	2.0	ug/L	40.0		11.1	2-120			
2,4-Dimethylphenol	25	1.0	2.0	ug/L	50.0		49.9	42-120			
4,6-Dinitro-2-methylphenol	21	3.0	4.0	ug/L	40.0		53.1	53-130			
2,4-Dinitrophenol	18	5.0	5.0	ug/L	40.0		45.0	10-173			
2,4-Dinitrotoluene	36	0.80	2.0	ug/L	40.0		90.4	48-127			
2,6-Dinitrotoluene	35	0.80	2.0	ug/L	40.0		88.3	68-137			
Fluoranthene	38	0.80	1.0	ug/L	40.0		94.2	43-121			
Fluorene	34	0.80	2.0	ug/L	40.0		85.4	70-120			

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch AA33298 - SVOAs in Water GCMS

LCS (AA33298-BS1)

Prepared: 01/04/23 Analyzed: 01/10/23

Hexachlorobenzene	36	0.90	1.0	ug/L	40.0	90.0	8-142			
Hexachlorobutadiene	28	0.80	1.0	ug/L	40.0	71.2	38-120			
Hexachlorocyclopentadiene	18	4.0	4.0	ug/L	40.0	45.4	16-93			
Hexachloroethane	27	0.60	1.0	ug/L	40.0	67.1	55-120			
Indeno (1,2,3-cd) pyrene	34	0.60	2.0	ug/L	40.0	84.5	2-151			
Isophorone	32	0.30	1.0	ug/L	40.0	81.2	47-180			
2-Methylnaphthalene	30	1.0	2.0	ug/L	40.0	75.6	45-106			
2-Methylphenol (o-cresol)	22	0.60	5.0	ug/L	40.0	55.3	36-102			
3 & 4-Methylphenol (m & p-cresol)	20	0.60	5.0	ug/L	40.0	50.0	38-93			
N-Nitrosodi-n-propylamine	31	0.80	2.0	ug/L	40.0	77.0	14-198			
N-Nitrosodimethylamine	19	0.30	2.0	ug/L	40.0	47.3	19-81			
N-Nitrosodiphenylamine	34	1.0	1.0	ug/L	40.0	85.6	54-111			
Naphthalene	30	0.70	1.0	ug/L	40.0	74.0	36-120			
2-Nitroaniline	51	1.0	20	ug/L	60.0	85.0	53-128			
3-Nitroaniline	50	5.0	50	ug/L	60.0	84.0	50-137			
4-Nitroaniline	48	4.0	20	ug/L	60.0	80.0	25-191			
2-Nitrophenol	23	0.90	10	ug/L	40.0	57.6	45-167			
4-Nitrophenol	12	3.0	5.0	ug/L	40.0	29.9	13-129			
Nitrobenzene	30	0.90	1.0	ug/L	40.0	75.8	54-158			
Pentachlorophenol	23	4.0	5.0	ug/L	40.0	57.5	38-152			
Phenanthrene	35	0.90	2.0	ug/L	40.0	88.0	65-120			
Phenol	12	0.50	1.0	ug/L	40.0	29.8	17-120			
Pyrene	36	0.40	2.0	ug/L	40.0	91.0	70-120			
1,2,4-Trichlorobenzene	29	0.60	2.0	ug/L	40.0	72.0	57-130			
2,4,5-Trichlorophenol	24	0.60	2.0	ug/L	40.0	59.4	44-141			
2,4,6-Trichlorophenol	23	0.70	2.0	ug/L	40.0	58.0	52-129			
Surrogate: 2-Fluorobiphenyl	35.5			ug/L	40.0	88.6	27-119			
Surrogate: 2-Fluorophenol	13.6			ug/L	40.0	33.9	7-85			
Surrogate: Nitrobenzene-d5	34.1			ug/L	40.0	85.3	15-314			
Surrogate: p-Terphenyl-d14	40.5			ug/L	40.0	101	36-141			
Surrogate: Phenol-d6	10.0			ug/L	40.0	25.1	1-65			
Surrogate: 2,4,6-Tribromophenol	27.7			ug/L	40.0	69.3	4-168			

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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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA33298 - SVOAs in Water GCMS

Matrix Spike (AA33298-MS1)	Source: 22L4158-02			Prepared: 01/04/23		Analyzed: 01/10/23				
Acenaphthene	31	0.60	1.0	ug/L	40.0	ND	77.6	47-145		
Acenaphthylene	32	0.50	2.0	ug/L	40.0	ND	79.0	33-145		
Anthracene	36	0.40	2.0	ug/L	40.0	ND	90.1	27-133		
Benzo (a) anthracene	36	0.40	2.0	ug/L	40.0	ND	89.1	33-143		
Benzo (a) pyrene	35	0.50	2.0	ug/L	40.0	ND	87.3	17-163		
Benzo (b) fluoranthene	36	0.60	2.0	ug/L	40.0	ND	90.3	24-159		
Benzo (g,h,i) perylene	34	0.90	2.0	ug/L	40.0	ND	84.7	2-219		
Benzo (k) fluoranthene	35	0.50	2.0	ug/L	40.0	ND	88.7	11-162		
Bis(2-chloroethoxy)methane	29	0.90	2.0	ug/L	40.0	ND	72.2	33-184		
Bis(2-chloroethyl)ether	28	0.90	1.0	ug/L	40.0	ND	69.0	12-158		
Bis(2-chloroisopropyl)ether	26	1.0	1.0	ug/L	40.0	ND	64.6	36-166		
Bis(2-ethylhexyl)phthalate	35	3.0	5.0	ug/L	40.0	ND	88.5	8-158		
4-Bromophenyl phenyl ether	35	1.0	4.0	ug/L	40.0	ND	86.7	53-127		
Butyl benzyl phthalate	4.1	0.60	5.0	ug/L	40.0	ND	10.2	2-152		J
4-Chloro-3-methylphenol	4.0	1.0	1.0	ug/L	40.0	ND	9.95	22-147		QM-05
2-Chloronaphthalene	29	0.60	2.0	ug/L	40.0	ND	73.5	60-120		
2-Chlorophenol	ND	0.70	2.0	ug/L	40.0	ND		23-134		QM-05, U
4-Chlorophenyl phenyl ether	33	0.90	4.0	ug/L	40.0	ND	83.5	25-158		
Chrysene	36	0.80	2.0	ug/L	40.0	ND	90.1	17-168		
Di-n-butyl phthalate	19	0.90	10	ug/L	40.0	8.1	28.0	1-120		
Di-n-octyl phthalate	39	0.60	10	ug/L	40.0	ND	97.3	4-146		
Dibenz (a,h) anthracene	34	0.80	2.0	ug/L	40.0	ND	85.4	2-227		
Dibenzofuran	31	0.90	4.0	ug/L	40.0	ND	78.2	57-107		
1,2-Dichlorobenzene	27	0.60	1.0	ug/L	40.0	ND	66.4	7-104		
1,3-Dichlorobenzene	26	0.60	1.0	ug/L	40.0	ND	64.8	1-106		
1,4-Dichlorobenzene	26	0.60	1.0	ug/L	40.0	ND	64.2	3-105		
2,4-Dichlorophenol	ND	0.70	2.0	ug/L	40.0	ND		39-135		QM-05, U
Diethyl phthalate	5.3	0.30	2.0	ug/L	40.0	ND	13.2	2-120		
Dimethyl phthalate	ND	0.80	2.0	ug/L	40.0	ND		2-120		QM-05, U
2,4-Dimethylphenol	13	1.0	2.0	ug/L	50.0	ND	26.3	32-120		QM-05
4,6-Dinitro-2-methylphenol	ND	3.0	4.0	ug/L	40.0	ND		7-181		QM-05, U
2,4-Dinitrophenol	ND	5.0	5.0	ug/L	40.0	ND		10-191		QM-05, U
2,4-Dinitrotoluene	36	0.80	2.0	ug/L	40.0	ND	89.1	39-139		
2,6-Dinitrotoluene	36	0.80	2.0	ug/L	40.0	ND	89.8	50-158		
Fluoranthene	37	0.80	1.0	ug/L	40.0	ND	93.2	26-137		
Fluorene	34	0.80	2.0	ug/L	40.0	ND	85.6	59-121		

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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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA33298 - SVOAs in Water GCMS

Matrix Spike (AA33298-MS1)	Source: 22L4158-02			Prepared: 01/04/23		Analyzed: 01/10/23				
Hexachlorobenzene	35	0.90	1.0	ug/L	40.0	ND	87.0	2-152		
Hexachlorobutadiene	27	0.80	1.0	ug/L	40.0	ND	66.8	24-120		
Hexachlorocyclopentadiene	5.0	4.0	4.0	ug/L	40.0	ND	12.4	10-93		
Hexachloroethane	25	0.60	1.0	ug/L	40.0	ND	62.3	40-120		
Indeno (1,2,3-cd) pyrene	32	0.60	2.0	ug/L	40.0	ND	79.2	2-171		
Isophorone	30	0.30	1.0	ug/L	40.0	ND	76.0	21-196		
2-Methylnaphthalene	29	1.0	2.0	ug/L	40.0	ND	72.2	44-106		
2-Methylphenol (o-cresol)	5.7	0.60	5.0	ug/L	40.0	ND	14.2	9-124		
3 & 4-Methylphenol (m & p-cresol)	3.4	0.60	5.0	ug/L	40.0	ND	8.62	12-99		QM-05, J
N-Nitrosodi-n-propylamine	29	0.80	2.0	ug/L	40.0	ND	72.7	2-230		
N-Nitrosodimethylamine	23	0.30	2.0	ug/L	40.0	ND	57.9	10-84		
N-Nitrosodiphenylamine	35	1.0	1.0	ug/L	40.0	ND	88.3	40-115		
Naphthalene	28	0.70	1.0	ug/L	40.0	ND	69.6	21-133		
2-Nitroaniline	53	1.0	20	ug/L	60.0	ND	89.2	48-128		
3-Nitroaniline	52	5.0	50	ug/L	60.0	ND	86.7	17-137		
4-Nitroaniline	50	4.0	20	ug/L	60.0	ND	84.1	13-191		
2-Nitrophenol	ND	0.90	10	ug/L	40.0	ND		29-182		QM-05, U
4-Nitrophenol	ND	3.0	5.0	ug/L	40.0	ND		7-132		QM-05, U
Nitrobenzene	29	0.90	1.0	ug/L	40.0	ND	71.5	35-180		
Pentachlorophenol	4.8	4.0	5.0	ug/L	40.0	ND	12.0	14-176		QM-05, J
Phenanthrene	35	0.90	2.0	ug/L	40.0	ND	88.4	54-120		
Phenol	3.1	0.50	1.0	ug/L	40.0	ND	7.82	5-120		
Pyrene	35	0.40	2.0	ug/L	40.0	ND	86.3	52-120		
1,2,4-Trichlorobenzene	27	0.60	2.0	ug/L	40.0	ND	67.5	44-142		
2,4,5-Trichlorophenol	ND	0.60	2.0	ug/L	40.0	ND		65-125		QM-05, U
2,4,6-Trichlorophenol	ND	0.70	2.0	ug/L	40.0	ND		37-144		QM-05, U
Surrogate: 2-Fluorobiphenyl	33.4			ug/L	40.0		83.5	27-119		
Surrogate: 2-Fluorophenol	0.410			ug/L	40.0		1.02	7-85		S-GC
Surrogate: Nitrobenzene-d5	32.0			ug/L	40.0		80.0	15-314		
Surrogate: p-Terphenyl-d14	38.6			ug/L	40.0		96.4	36-141		
Surrogate: Phenol-d6	1.06			ug/L	40.0		2.65	1-65		
Surrogate: 2,4,6-Tribromophenol	1.46			ug/L	40.0		3.65	4-168		S-GC

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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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA33298 - SVOAs in Water GCMS

Matrix Spike Dup (AA33298-MSD1)	Source: 22L4158-02			Prepared: 01/04/23		Analyzed: 01/10/23					
Acenaphthene	34	0.60	1.0	ug/L	40.0	ND	85.7	47-145	9.89	48	
Acenaphthylene	34	0.50	2.0	ug/L	40.0	ND	84.7	33-145	6.99	74	
Anthracene	37	0.40	2.0	ug/L	40.0	ND	91.6	27-133	1.68	66	
Benzo (a) anthracene	36	0.40	2.0	ug/L	40.0	ND	90.6	33-143	1.61	53	
Benzo (a) pyrene	35	0.50	2.0	ug/L	40.0	ND	87.9	17-163	0.656	72	
Benzo (b) fluoranthene	37	0.60	2.0	ug/L	40.0	ND	91.8	24-159	1.62	71	
Benzo (g,h,i) perylene	34	0.90	2.0	ug/L	40.0	ND	86.1	2-219	1.64	97	
Benzo (k) fluoranthene	36	0.50	2.0	ug/L	40.0	ND	91.2	11-162	2.75	63	
Bis(2-chloroethoxy)methane	32	0.90	2.0	ug/L	40.0	ND	79.3	33-184	9.37	54	
Bis(2-chloroethyl)ether	28	0.90	1.0	ug/L	40.0	ND	71.1	12-158	2.89	108	
Bis(2-chloroisopropyl)ether	28	1.0	1.0	ug/L	40.0	ND	69.2	36-166	6.92	76	
Bis(2-ethylhexyl)phthalate	34	3.0	5.0	ug/L	40.0	ND	84.0	8-158	5.13	82	
4-Bromophenyl phenyl ether	36	1.0	4.0	ug/L	40.0	ND	89.7	53-127	3.40	43	
Butyl benzyl phthalate	3.3	0.60	5.0	ug/L	40.0	ND	8.32	2-152	20.2	60	J
4-Chloro-3-methylphenol	12	1.0	1.0	ug/L	40.0	ND	29.1	22-147	98.1	73	QM-05
2-Chloronaphthalene	33	0.60	2.0	ug/L	40.0	ND	81.9	60-120	10.8	24	
2-Chlorophenol	5.0	0.70	2.0	ug/L	40.0	ND	12.6	23-134	200	61	QM-05
4-Chlorophenyl phenyl ether	35	0.90	4.0	ug/L	40.0	ND	88.5	25-158	5.79	61	
Chrysene	36	0.80	2.0	ug/L	40.0	ND	90.3	17-168	0.249	87	
Di-n-butyl phthalate	22	0.90	10	ug/L	40.0	8.1	35.6	1-120	14.7	47	
Di-n-octyl phthalate	39	0.60	10	ug/L	40.0	ND	97.2	4-146	0.129	69	
Dibenz (a,h) anthracene	35	0.80	2.0	ug/L	40.0	ND	87.4	2-227	2.29	126	
Dibenzofuran	34	0.90	4.0	ug/L	40.0	ND	84.4	57-107	7.69	29	
1,2-Dichlorobenzene	27	0.60	1.0	ug/L	40.0	ND	68.3	7-104	2.82	41	
1,3-Dichlorobenzene	26	0.60	1.0	ug/L	40.0	ND	65.0	1-106	0.385	41	
1,4-Dichlorobenzene	26	0.60	1.0	ug/L	40.0	ND	65.2	3-105	1.70	42	
2,4-Dichlorophenol	5.2	0.70	2.0	ug/L	40.0	ND	13.1	39-135	200	50	QM-05
Diethyl phthalate	3.7	0.30	2.0	ug/L	40.0	ND	9.22	2-120	35.3	100	
Dimethyl phthalate	ND	0.80	2.0	ug/L	40.0	ND		2-120		183	QM-05, U
2,4-Dimethylphenol	28	1.0	2.0	ug/L	50.0	ND	56.7	32-120	73.4	58	QM-05
4,6-Dinitro-2-methylphenol	7.2	3.0	4.0	ug/L	40.0	ND	18.0	7-181	200	203	
2,4-Dinitrophenol	5.2	5.0	5.0	ug/L	40.0	ND	13.0	10-191	200	132	QM-05
2,4-Dinitrotoluene	36	0.80	2.0	ug/L	40.0	ND	90.9	39-139	2.03	42	
2,6-Dinitrotoluene	36	0.80	2.0	ug/L	40.0	ND	90.9	50-158	1.16	48	
Fluoranthene	39	0.80	1.0	ug/L	40.0	ND	97.6	26-137	4.58	66	
Fluorene	36	0.80	2.0	ug/L	40.0	ND	90.2	59-121	5.17	38	

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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 AA33298 - SVOAs in Water GCMS

Matrix Spike Dup (AA33298-MSD1)	Source: 22L4158-02		Prepared: 01/04/23		Analyzed: 01/10/23						
Hexachlorobenzene	36	0.90	1.0	ug/L	40.0	ND	89.5	2-152	2.83	55	
Hexachlorobutadiene	30	0.80	1.0	ug/L	40.0	ND	74.0	24-120	10.3	62	
Hexachlorocyclopentadiene	ND	4.0	4.0	ug/L	40.0	ND		10-93	200	55	QM-05, U
Hexachloroethane	24	0.60	1.0	ug/L	40.0	ND	61.0	40-120	2.19	52	
Indeno (1,2,3-cd) pyrene	41	0.60	2.0	ug/L	40.0	ND	103	2-171	26.1	99	
Isophorone	33	0.30	1.0	ug/L	40.0	ND	82.3	21-196	7.89	93	
2-Methylnaphthalene	33	1.0	2.0	ug/L	40.0	ND	82.4	44-106	13.2	33	
2-Methylphenol (o-cresol)	13	0.60	5.0	ug/L	40.0	ND	32.4	9-124	78.3	33	QM-05
3 & 4-Methylphenol (m & p-cresol)	11	0.60	5.0	ug/L	40.0	ND	26.8	12-99	103	33	QM-05
N-Nitrosodi-n-propylamine	32	0.80	2.0	ug/L	40.0	ND	78.8	2-230	8.08	87	
N-Nitrosodimethylamine	23	0.30	2.0	ug/L	40.0	ND	56.3	10-84	2.89	59	
N-Nitrosodiphenylamine	36	1.0	1.0	ug/L	40.0	ND	89.6	40-115	1.46	25	
Naphthalene	31	0.70	1.0	ug/L	40.0	ND	77.2	21-133	10.4	65	
2-Nitroaniline	53	1.0	20	ug/L	60.0	ND	89.0	48-128	0.112	26	
3-Nitroaniline	51	5.0	50	ug/L	60.0	ND	85.4	17-137	1.43	25	
4-Nitroaniline	55	4.0	20	ug/L	60.0	ND	92.0	13-191	8.97	33	
2-Nitrophenol	4.4	0.90	10	ug/L	40.0	ND	11.1	29-182	200	55	QM-05, J
4-Nitrophenol	ND	3.0	5.0	ug/L	40.0	ND		7-132		131	QM-05, U
Nitrobenzene	31	0.90	1.0	ug/L	40.0	ND	78.0	35-180	8.66	62	
Pentachlorophenol	9.7	4.0	5.0	ug/L	40.0	ND	24.2	14-176	67.3	86	
Phenanthrene	36	0.90	2.0	ug/L	40.0	ND	90.2	54-120	2.04	39	
Phenol	6.3	0.50	1.0	ug/L	40.0	ND	15.8	5-120	67.7	64	QM-05
Pyrene	33	0.40	2.0	ug/L	40.0	ND	82.2	52-120	4.90	49	
1,2,4-Trichlorobenzene	30	0.60	2.0	ug/L	40.0	ND	74.1	44-142	9.39	50	
2,4,5-Trichlorophenol	5.2	0.60	2.0	ug/L	40.0	ND	13.1	65-125	200	25	QM-05
2,4,6-Trichlorophenol	4.3	0.70	2.0	ug/L	40.0	ND	10.8	37-144	200	58	QM-05
Surrogate: 2-Fluorobiphenyl	35.9			ug/L	40.0		89.8	27-119			
Surrogate: 2-Fluorophenol	5.06			ug/L	40.0		12.6	7-85			
Surrogate: Nitrobenzene-d5	34.4			ug/L	40.0		86.0	15-314			
Surrogate: p-Terphenyl-d14	36.8			ug/L	40.0		92.0	36-141			
Surrogate: Phenol-d6	5.92			ug/L	40.0		14.8	1-65			
Surrogate: 2,4,6-Tribromophenol	6.78			ug/L	40.0		17.0	4-168			

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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 AA33156 - SVOAs in Water GCMS

Blank (AA33156-BLK1)											
						Prepared: 01/03/23 Analyzed: 01/09/23					
Benzidine	ND	3.0	5.0	ug/L							U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L							U
Surrogate: 2-Fluorobiphenyl	28.7			ug/L	40.0		71.8	27-119			
Surrogate: Nitrobenzene-d5	29.2			ug/L	40.0		73.1	15-314			
Surrogate: p-Terphenyl-d14	32.0			ug/L	40.0		80.1	36-141			

LCS (AA33156-BS1)											
						Prepared: 01/03/23 Analyzed: 01/09/23					
Benzidine	40.1	3.0	5.0	ug/L	80.0		50.2	12-151			
3,3'-Dichlorobenzidine	74.8	2.0	5.0	ug/L	80.0		93.5	8-120			
Surrogate: 2-Fluorobiphenyl	31.5			ug/L	40.0		78.7	27-119			
Surrogate: Nitrobenzene-d5	31.4			ug/L	40.0		78.4	15-314			
Surrogate: p-Terphenyl-d14	34.6			ug/L	40.0		86.6	36-141			

Matrix Spike (AA33156-MS1)											
			Source: 22L4158-02			Prepared: 01/03/23 Analyzed: 01/09/23					
Benzidine	8.29	3.0	5.0	ug/L	80.0	ND	10.4	4-262			
3,3'-Dichlorobenzidine	42.9	2.0	5.0	ug/L	80.0	ND	53.6	4-262			
Surrogate: 2-Fluorobiphenyl	21.3			ug/L	40.0		53.2	27-119			
Surrogate: Nitrobenzene-d5	21.7			ug/L	40.0		54.2	15-314			
Surrogate: p-Terphenyl-d14	19.3			ug/L	40.0		48.2	36-141			

Matrix Spike Dup (AA33156-MSD1)											
			Source: 22L4158-02			Prepared: 01/03/23 Analyzed: 01/09/23					
Benzidine	14.9	3.0	5.0	ug/L	80.0	ND	18.6	4-262	57.1	108	
3,3'-Dichlorobenzidine	41.3	2.0	5.0	ug/L	80.0	ND	51.6	4-262	3.82	108	
Surrogate: 2-Fluorobiphenyl	26.2			ug/L	40.0		65.5	27-119			
Surrogate: Nitrobenzene-d5	27.9			ug/L	40.0		69.8	15-314			
Surrogate: p-Terphenyl-d14	26.9			ug/L	40.0		67.2	36-141			

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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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA34167 - SVOAs in Water GCMS

Blank (AA34167-BLK1)

Prepared: 01/04/23 Analyzed: 01/17/23

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	33.4			ug/L	40.0		83.4	24-119			
Surrogate: Nitrobenzene-d5	26.6			ug/L	40.0		66.5	15-314			
Surrogate: p-Terphenyl-d14	42.8			ug/L	40.0		107	37-139			

LCS (AA34167-BS1)

Prepared: 01/04/23 Analyzed: 01/17/23

Acenaphthylene	39.2	0.20	0.20	ug/L	40.0		98.0	54-126			
Anthracene	37.2	0.090	0.20	ug/L	40.0		93.0	43-120			
Benzo (a) anthracene	34.4	0.20	0.20	ug/L	40.0		85.9	42-133			
Benzo (a) pyrene	37.0	0.20	0.20	ug/L	40.0		92.4	32-148			
Benzo (b) fluoranthene	37.5	0.20	0.20	ug/L	40.0		93.8	42-140			
Benzo (g,h,i) perylene	34.8	0.10	0.20	ug/L	40.0		87.0	2-195			
Benzo (k) fluoranthene	48.0	0.20	0.20	ug/L	40.0		120	25-146			
Chrysene	40.3	0.20	0.20	ug/L	40.0		101	44-140			
Dibenz (a,h) anthracene	42.0	0.10	0.20	ug/L	40.0		105	2-200			
Fluorene	28.4	0.20	0.20	ug/L	40.0		71.0	70-120			
Indeno (1,2,3-cd) pyrene	40.2	0.030	0.20	ug/L	40.0		100	2-151			
Phenanthrene	38.0	0.10	0.20	ug/L	40.0		95.0	65-120			
Pyrene	28.2	0.20	0.20	ug/L	40.0		70.4	70-120			
Surrogate: 2-Fluorobiphenyl	39.9			ug/L	40.0		99.8	24-119			
Surrogate: Nitrobenzene-d5	20.3			ug/L	40.0		50.8	15-314			
Surrogate: p-Terphenyl-d14	52.9			ug/L	40.0		132	37-139			

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 U2361CUFS	Reported: 01/23/23 15:34
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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 AA34167 - SVOAs in Water GCMS

Matrix Spike (AA34167-MS1)		Source: 22L4158-02			Prepared: 01/04/23		Analyzed: 01/17/23	
Acenaphthylene	50.9	0.20	0.20	ug/L	40.0	ND	127	33-145
Anthracene	42.1	0.090	0.20	ug/L	40.0	ND	105	27-133
Benzo (a) anthracene	35.5	0.20	0.20	ug/L	40.0	ND	88.8	33-143
Benzo (a) pyrene	32.6	0.20	0.20	ug/L	40.0	ND	81.6	17-163
Benzo (b) fluoranthene	32.2	0.20	0.20	ug/L	40.0	ND	80.4	24-159
Benzo (g,h,i) perylene	39.7	0.10	0.20	ug/L	40.0	ND	99.3	2-219
Benzo (k) fluoranthene	44.7	0.20	0.20	ug/L	40.0	ND	112	11-162
Chrysene	42.4	0.20	0.20	ug/L	40.0	ND	106	17-168
Dibenz (a,h) anthracene	50.0	0.10	0.20	ug/L	40.0	ND	125	2-227
Fluorene	26.5	0.20	0.20	ug/L	40.0	ND	66.3	59-121
Indeno (1,2,3-cd) pyrene	38.3	0.030	0.20	ug/L	40.0	ND	95.8	2-171
Phenanthrene	43.6	0.10	0.20	ug/L	40.0	ND	109	54-120
Pyrene	24.7	0.20	0.20	ug/L	40.0	ND	61.8	52-120
Surrogate: 2-Fluorobiphenyl	45.1			ug/L	40.0		113	24-119
Surrogate: Nitrobenzene-d5	38.1			ug/L	40.0		95.2	15-314
Surrogate: p-Terphenyl-d14	84.7			ug/L	40.0		212	37-139

S-GC

Matrix Spike Dup (AA34167-MSD1)		Source: 22L4158-02			Prepared: 01/04/23		Analyzed: 01/18/23			
Acenaphthylene	54.3	0.20	0.20	ug/L	40.0	ND	136	33-145	6.39	74
Anthracene	45.2	0.090	0.20	ug/L	40.0	ND	113	27-133	7.20	66
Benzo (a) anthracene	36.6	0.20	0.20	ug/L	40.0	ND	91.6	33-143	3.08	53
Benzo (a) pyrene	44.1	0.20	0.20	ug/L	40.0	ND	110	17-163	29.8	72
Benzo (b) fluoranthene	33.3	0.20	0.20	ug/L	40.0	ND	83.4	24-159	3.60	71
Benzo (g,h,i) perylene	37.4	0.10	0.20	ug/L	40.0	ND	93.6	2-219	5.91	97
Benzo (k) fluoranthene	44.5	0.20	0.20	ug/L	40.0	ND	111	11-162	0.583	63
Chrysene	40.4	0.20	0.20	ug/L	40.0	ND	101	17-168	4.95	87
Dibenz (a,h) anthracene	45.3	0.10	0.20	ug/L	40.0	ND	113	2-227	9.85	126
Fluorene	26.7	0.20	0.20	ug/L	40.0	ND	66.8	59-121	0.864	38
Indeno (1,2,3-cd) pyrene	38.2	0.030	0.20	ug/L	40.0	ND	95.4	2-171	0.445	99
Phenanthrene	46.4	0.10	0.20	ug/L	40.0	ND	116	54-120	6.19	39
Pyrene	25.4	0.20	0.20	ug/L	40.0	ND	63.6	52-120	2.83	49
Surrogate: 2-Fluorobiphenyl	48.3			ug/L	40.0		121	24-119		S-GC
Surrogate: Nitrobenzene-d5	76.6			ug/L	40.0		191	15-314		
Surrogate: p-Terphenyl-d14	74.1			ug/L	40.0		185	37-139		S-GC

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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 U2361CUFS

Reported:
01/23/23 15:34

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates.
- 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 method pair is not available. For a list of accredited analytes, view our certificates at the Company link on our website at www.alpha-labs.com or contact your Project Manager directly.

