



alpha

Alpha Analytical Laboratories, Inc.

email: clientservices@alpha-labs.com

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

25 September 2023

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 1 Liter BRA Buttress

Work Order: 23H3206

Enclosed are the results of analyses for samples received by the laboratory on 08/21/23 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 U3211CUFS

Reported:
09/25/23 12:05

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 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
U3211CUFS - 01	23H3206-01	Water	08/21/23 00:00	08/21/23 12:00
U3211CUFS - 02	23H3206-02	Water	08/21/23 00:00	08/21/23 12:00
U3211CUFS - 03	23H3206-03	Water	08/21/23 00:00	08/21/23 12:00
U3211CUFS - 04	23H3206-04	Water	08/21/23 00:00	08/21/23 12:00
U3211CUFS - 05	23H3206-05	Water	08/21/23 00:00	08/21/23 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 U3211CUFS

Reported:
 09/25/23 12:05

Organochlorine Pesticides and PCBs by EPA Method 608.3

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit										
U3211CUFS - 01 (23H3206-01) Water Sampled: 08/21/23 00:00 Received: 08/21/23 12:00													
Aldrin	ND	0.0020	0.0050		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
alpha-BHC	ND	0.0040	0.010		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
beta-BHC	ND	0.0040	0.0050		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
delta-BHC	ND	0.0050	0.0050		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
gamma-BHC (Lindane)	ND	0.0040	0.010		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Chlordane (tech)	ND	0.010	0.050		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
4,4'-DDD	ND	0.0050	0.020		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
4,4'-DDE	ND	0.0040	0.020		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
4,4'-DDT	ND	0.0030	0.010		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Dieldrin	ND	0.0050	0.010		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Endosulfan I	ND	0.0040	0.010		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Endosulfan II	ND	0.0050	0.010		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Endosulfan sulfate	ND	0.0030	0.050		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Endrin	ND	0.0080	0.010		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Endrin aldehyde	ND	0.0040	0.040		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Heptachlor	ND	0.0050	0.010		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Heptachlor epoxide	ND	0.0090	0.010		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Methoxychlor	ND	0.010	0.50		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Toxaphene	ND	0.20	0.50		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
PCB-1016	ND	0.10	0.50		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
PCB-1221	ND	0.10	0.50		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
PCB-1232	ND	0.10	0.50		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
PCB-1242	ND	0.10	0.50		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
PCB-1248	ND	0.10	0.50		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
PCB-1254	ND	0.10	0.50		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
PCB-1260	ND	0.10	0.50		ug/L	1	AH34687	08/24/23 06:52	08/31/23 00:55	EPA 608.3	NBH	1551	U
Surrogate: Dibutylchlorodate		80.4 %	10-147				AH34687	08/24/23 06:52	08/31/23 00:55	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 U3211CUFS

Reported:
 09/25/23 12:05

Chlorinated Herbicides by EPA Method 8151A

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit										
U3211CUFS - 03 (23H3206-03) Water Sampled: 08/21/23 00:00 Received: 08/21/23 12:00													
2,4-D	ND	1.0	1.0		ug/L	1	AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	U
2,4-DB	ND	1.0	4.0		ug/L	1	AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	U
2,4,5-T	ND	0.20	0.50		ug/L	1	AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	U
2,4,5-TP (Silvex)	ND	0.20	0.50		ug/L	1	AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	U
Dalapon	ND	2.0	6.0		ug/L	1	AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	U
Dicamba	ND	0.30	0.40		ug/L	1	AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	U
Dinoseb	ND	0.20	1.0		ug/L	1	AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	U
Dichlorprop	ND	0.40	1.0		ug/L	1	AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	U
Pentachlorophenol	ND	0.20	0.20		ug/L	1	AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	U
Surrogate: DCAA			115 %		62-124		AH34689	08/24/23 07:04	08/30/23 20:25	EPA 8151A	MM	1551	



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 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 1 Liter BRA Buttress
 Project Number: Lot number U3211CUFS

Reported:
 09/25/23 12:05

Organophosphorus Compounds by EPA Method 8141A

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit										
U3211CUFS - 02 (23H3206-02) Water Sampled: 08/21/23 00:00 Received: 08/21/23 12:00													
Azinphos methyl	ND	0.40	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Chlorpyrifos	ND	0.70	1.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Demeton-o	ND	0.20	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Demeton-s	ND	0.30	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Diazinon	ND	0.30	0.50		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Dichlorvos	ND	0.40	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Dimethoate	ND	1.0	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551*	U
Disulfoton	ND	0.30	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Malathion	ND	0.80	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Parathion	ND	0.90	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Parathion-methyl	ND	0.40	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Phorate	ND	0.40	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Ronnel	ND	0.30	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Stirofos	ND	0.30	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	U
Thionazin	ND	1.0	2.0		ug/L	1	AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551*	U
Surrogate: Tributyl phosphate		92.9 %			37-115		AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	
Surrogate: Triphenyl phosphate		76.7 %			44-145		AH34688	08/24/23 06:53	09/06/23 03:45	EPA 8141A	NBH	1551	



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Project Manager: Quality Control Manager
 Project: QC- 1 Liter BRA Buttress
 Project Number: Lot number U3211CUFS

Reported:
 09/25/23 12:05

Semivolatile Organic Compounds by EPA Method 625.1 SIM

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit										
U3211CUFS - 05 (23H3206-05) Water Sampled: 08/21/23 00:00 Received: 08/21/23 12:00													
Acenaphthylene	ND	0.20	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Anthracene	ND	0.090	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Benzo (a) anthracene	ND	0.20	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Benzo (a) pyrene	ND	0.20	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Benzo (b) fluoranthene	ND	0.20	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Benzo (g,h,i) perylene	ND	0.10	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Benzo (k) fluoranthene	ND	0.20	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Chrysene	ND	0.20	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Dibenz (a,h) anthracene	ND	0.10	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Fluorene	ND	0.20	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	U
Indeno (1,2,3-cd) pyrene	ND	0.030	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551*	U
Phenanthrene	ND	0.10	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551*	U
Pyrene	ND	0.20	0.20		ug/L	1	AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551*	U
<i>Surrogate: 2-Fluorobiphenyl</i>		68.1 %		24-119			AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	
<i>Surrogate: Nitrobenzene-d5</i>		29.0 %		15-314			AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	
<i>Surrogate: p-Terphenyl-d14</i>		67.0 %		37-139			AI34392	08/28/23 06:00	09/22/23 00:50	EPA 625.1SIM	JV/	1551	



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Project Manager: Quality Control Manager
 Project: QC- 1 Liter BRA Buttress
 Project Number: Lot number U3211CUFS

Reported:
 09/25/23 12:05

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit	Units								
U3211CUFS - 04 (23H3206-04) Water Sampled: 08/21/23 00:00 Received: 08/21/23 12:00												
Acenaphthene	ND	0.90	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Acenaphthylene	ND	1.0	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Anthracene	ND	0.40	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Benzo (a) anthracene	ND	0.30	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Benzo (a) pyrene	ND	0.50	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Benzo (b) fluoranthene	ND	0.60	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Benzo (g,h,i) perylene	ND	0.90	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Benzo (k) fluoranthene	ND	0.50	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Bis(2-chloroethoxy)methane	ND	0.90	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Bis(2-chloroethyl)ether	ND	0.90	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Bis(2-chloroisopropyl)ether	ND	0.90	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
Bis(2-ethylhexyl)phthalate	ND	3.0	5.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
4-Bromophenyl phenyl ether	ND	1.0	4.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Butyl benzyl phthalate	ND	3.0	5.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
4-Chloro-3-methylphenol	ND	0.80	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
2-Chloronaphthalene	ND	1.0	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
2-Chlorophenol	ND	0.70	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
4-Chlorophenyl phenyl ether	ND	0.90	4.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Chrysene	ND	0.80	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Di-n-butyl phthalate	ND	6.0	10	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Di-n-octyl phthalate	ND	0.50	10	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Dibenz (a,h) anthracene	ND	0.80	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Dibenzofuran	ND	0.90	4.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
1,2-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
1,3-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
1,4-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
2,4-Dichlorophenol	ND	0.70	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Diethyl phthalate	ND	1.0	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Dimethyl phthalate	ND	1.0	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
2,4-Dimethylphenol	ND	1.0	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
4,6-Dinitro-2-methylphenol	ND	3.0	4.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
2,4-Dinitrophenol	ND	4.6	5.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
2,4-Dinitrotoluene	ND	0.80	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
2,6-Dinitrotoluene	ND	0.80	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Fluoranthene	ND	0.20	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Fluorene	ND	0.80	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Hexachlorobenzene	ND	0.90	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	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 U3211CUFS

Reported:
 09/25/23 12:05

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
U3211CUFS - 04 (23H3206-04) Water												
Sampled: 08/21/23 00:00 Received: 08/21/23 12:00												
T-02												
Hexachlorobutadiene	ND	0.80	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
Hexachlorocyclopentadiene	ND	2.0	4.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
Hexachloroethane	ND	0.60	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
Indeno (1,2,3-cd) pyrene	ND	0.60	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
Isophorone	ND	0.90	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
2-Methylnaphthalene	ND	1.0	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
2-Methylphenol (o-cresol)	ND	0.60	5.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
3 & 4-Methylphenol (m & p-cresol)	ND	0.60	5.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
N-Nitrosodi-n-propylamine	ND	0.80	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
N-Nitrosodimethylamine	ND	0.70	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
N-Nitrosodiphenylamine	ND	0.50	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Naphthalene	ND	0.70	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
2-Nitroaniline	ND	1.0	20	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
3-Nitroaniline	ND	5.0	50	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
4-Nitroaniline	ND	10	20	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
2-Nitrophenol	ND	3.0	10	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
4-Nitrophenol	ND	3.0	5.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Nitrobenzene	ND	0.90	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Pentachlorophenol	ND	4.0	5.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	U
Phenanthrene	ND	0.90	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
Phenol	ND	0.50	1.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
Pyrene	ND	0.30	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
1,2,4-Trichlorobenzene	ND	0.60	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
2,4,5-Trichlorophenol	ND	1.0	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
2,4,6-Trichlorophenol	ND	1.0	2.0	ug/L	1	AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551*	U
Surrogate: 2-Fluorobiphenyl		79.4 %	27-119			AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	
Surrogate: 2-Fluorophenol		47.1 %	7-85			AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	
Surrogate: Nitrobenzene-d5		80.5 %	15-314			AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	
Surrogate: p-Terphenyl-d14		85.8 %	36-141			AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	
Surrogate: Phenol-d6		27.8 %	1-65			AH34880	08/28/23 06:54	09/06/23 03:11	EPA 8270C	JV	1551	
Surrogate: 2,4,6-Tribromophenol		74.9 %	4-168			AH34880	08/28/23 06:54	09/06/23 03:11	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 U3211CUFS

Reported:
 09/25/23 12:05

Benzidines by EPA Method 8270C

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP #	Notes
			Limit	Units								
U3211CUFS - 04 (23H3206-04) Water Sampled: 08/21/23 00:00 Received: 08/21/23 12:00												
Benzidine	ND	3.0	5.0	ug/L	1	AH34881	08/28/23 06:55	09/06/23 19:28	EPA 8270C	NBH	1551	U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L	1	AH34881	08/28/23 06:55	09/06/23 19:28	EPA 8270C	NBH	1551	U
Surrogate: 2-Fluorobiphenyl		73.1 %	27-119			AH34881	08/28/23 06:55	09/06/23 19:28	EPA 8270C	NBH	1551	
Surrogate: Nitrobenzene-d5		84.4 %	15-314			AH34881	08/28/23 06:55	09/06/23 19:28	EPA 8270C	NBH	1551	
Surrogate: p-Terphenyl-d14		73.9 %	36-141			AH34881	08/28/23 06:55	09/06/23 19:28	EPA 8270C	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 U3211CUFS

Reported:
 09/25/23 12:05

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 AH34687 - SVOAs in Water GC

Blank (AH34687-BLK1)

Prepared: 08/24/23 Analyzed: 08/30/23

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	0.0050	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'-DDE	ND	0.0040	0.020	ug/L							U
4,4'-DDT	ND	0.0030	0.010	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	0.286			ug/L	0.400		71.5	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 U3211CUFS	Reported: 09/25/23 12:05
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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 AH34687 - SVOAs in Water GC

LCS (AH34687-BS1)		Prepared: 08/24/23 Analyzed: 08/30/23									
Aldrin	0.178	0.0020	0.0050	ug/L	0.240		74.0	42-140			
alpha-BHC	0.214	0.0040	0.010	ug/L	0.240		89.3	37-140			
beta-BHC	0.335	0.0040	0.0050	ug/L	0.240		139	17-147			
delta-BHC	0.237	0.0050	0.0050	ug/L	0.240		98.8	19-140			
gamma-BHC (Lindane)	0.233	0.0040	0.010	ug/L	0.240		97.2	32-140			
4,4'-DDT	0.261	0.0030	0.010	ug/L	0.240		109	31-141			
4,4'-DDE	0.229	0.0040	0.020	ug/L	0.240		95.4	30-145			
4,4'-DDD	0.204	0.0050	0.020	ug/L	0.240		84.9	25-160			
Dieldrin	0.244	0.0050	0.010	ug/L	0.240		102	36-146			
Endosulfan I	0.241	0.0040	0.010	ug/L	0.240		100	45-153			
Endosulfan II	0.230	0.0050	0.010	ug/L	0.240		95.7	0-202			
Endosulfan sulfate	0.262	0.0030	0.050	ug/L	0.240		109	26-144			
Endrin	0.290	0.0080	0.010	ug/L	0.240		121	30-147			
Endrin aldehyde	0.233	0.0040	0.040	ug/L	0.240		97.0	45-140			
Heptachlor	0.192	0.0050	0.010	ug/L	0.240		80.1	34-140			
Heptachlor epoxide	0.237	0.0090	0.010	ug/L	0.240		98.9	37-142			
Methoxychlor	0.261	0.010	0.50	ug/L	0.240		109	45-140			J
Surrogate: Dibutylchloroendate	0.285			ug/L	0.400		71.3	10-147			

LCS (AH34687-BS2)		Prepared: 08/24/23 Analyzed: 08/30/23									
Chlordane (tech)	6.58	0.010	0.050	ug/L	6.40		103	45-140			

Matrix Spike (AH34687-MS1)		Source: 23H3318-01		Prepared: 08/24/23 Analyzed: 08/30/23								
Aldrin	0.186	0.020	0.050	ug/L	0.240	ND	77.6	42-140				
alpha-BHC	0.194	0.040	0.10	ug/L	0.240	ND	80.9	37-140				
beta-BHC	0.0820	0.040	0.050	ug/L	0.240	ND	34.2	17-147				
delta-BHC	0.153	0.050	0.050	ug/L	0.240	ND	63.9	19-140				
gamma-BHC (Lindane)	0.210	0.040	0.10	ug/L	0.240	ND	87.3	32-140				
4,4'-DDT	0.312	0.030	0.10	ug/L	0.240	ND	130	25-160				
4,4'-DDE	0.212	0.040	0.20	ug/L	0.240	ND	88.4	30-145				
4,4'-DDD	0.194	0.050	0.20	ug/L	0.240	ND	80.7	31-141			J	
Dieldrin	0.201	0.050	0.10	ug/L	0.240	ND	83.8	36-146				
Endosulfan I	0.207	0.040	0.10	ug/L	0.240	ND	86.3	45-153				
Endosulfan II	0.181	0.050	0.10	ug/L	0.240	ND	75.3	2-202				
Endosulfan sulfate	0.395	0.030	0.50	ug/L	0.240	ND	165	26-144			QM-05, J	
Endrin	0.253	0.080	0.10	ug/L	0.240	ND	105	30-147				
Endrin aldehyde	0.255	0.040	0.40	ug/L	0.240	ND	106	45-140			J	

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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 U3211CUFS	Reported: 09/25/23 12:05
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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 AH34687 - SVOAs in Water GC

Matrix Spike (AH34687-MS1)	Source: 23H3318-01			Prepared: 08/24/23		Analyzed: 08/30/23				
Heptachlor	0.210	0.050	0.10	ug/L	0.240	ND	87.6	34-140		
Heptachlor epoxide	0.590	0.090	0.10	ug/L	0.240	ND	246	37-142		QM-05
Methoxychlor	0.201	0.10	5.0	ug/L	0.240	ND	83.8	45-140		J
Surrogate: Dibutylchloredate	0.00			ug/L	0.400			10-147		S-06, U

Matrix Spike Dup (AH34687-MSD1)	Source: 23H3318-01			Prepared: 08/24/23		Analyzed: 08/30/23					
Aldrin	0.155	0.020	0.050	ug/L	0.240	ND	64.4	42-140	18.7	35	
alpha-BHC	0.180	0.040	0.10	ug/L	0.240	ND	75.1	37-140	7.53	36	
beta-BHC	0.0617	0.040	0.050	ug/L	0.240	ND	25.7	17-147	28.3	44	
delta-BHC	0.135	0.050	0.050	ug/L	0.240	ND	56.2	19-140	12.9	52	
gamma-BHC (Lindane)	0.129	0.040	0.10	ug/L	0.240	ND	53.8	32-140	47.5	39	QM-08
4,4'-DDE	0.202	0.040	0.20	ug/L	0.240	ND	84.0	30-145	5.09	35	
4,4'-DDT	0.483	0.030	0.10	ug/L	0.240	ND	201	25-160	43.0	42	QM-05
4,4'-DDD	0.199	0.050	0.20	ug/L	0.240	ND	83.1	31-141	2.93	39	J
Dieldrin	0.187	0.050	0.10	ug/L	0.240	ND	77.9	36-146	7.29	49	
Endosulfan I	0.195	0.040	0.10	ug/L	0.240	ND	81.1	45-153	6.24	28	
Endosulfan II	0.170	0.050	0.10	ug/L	0.240	ND	71.0	2-202	5.86	53	
Endosulfan sulfate	0.401	0.030	0.50	ug/L	0.240	ND	167	26-144	1.52	38	QM-05, J
Endrin	0.239	0.080	0.10	ug/L	0.240	ND	99.4	30-147	5.90	48	
Endrin aldehyde	0.183	0.040	0.40	ug/L	0.240	ND	76.2	45-140	32.9	35	J
Heptachlor	0.181	0.050	0.10	ug/L	0.240	ND	75.4	34-140	15.0	43	
Heptachlor epoxide	0.588	0.090	0.10	ug/L	0.240	ND	245	37-142	0.355	36	QM-05
Methoxychlor	0.185	0.10	5.0	ug/L	0.240	ND	77.2	45-140	8.23	35	J
Surrogate: Dibutylchloredate	0.00			ug/L	0.400			10-147			S-06, 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 U3211CUFS	Reported: 09/25/23 12:05
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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 AH34689 - Herbicides

Blank (AH34689-BLK1)											
						Prepared: 08/24/23 Analyzed: 08/30/23					
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	0.30	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	13.3			ug/L	12.5		107	62-124			

Calibration Check (AH34689-CCV1)											
						Prepared: 08/24/23 Analyzed: 08/30/23					
2,4-D	11.6	1.0	1.0	ug/L	10.6		110	80-120			
2,4-DB	16.0	1.0	4.0	ug/L	14.1		113	80-120			
2,4,5-T	2.05	0.20	0.50	ug/L	1.76		117	80-120			
2,4,5-TP (Silvex)	1.99	0.20	0.50	ug/L	1.76		113	80-120			
Dalapon	26.0	2.0	6.0	ug/L	22.9		114	80-120			
Dicamba	1.59	0.30	0.40	ug/L	1.76		90.5	80-120			
Dinoseb	4.13	0.20	1.0	ug/L	3.52		117	80-120			
Dichlorprop	5.20	0.40	1.0	ug/L	5.28		98.4	80-120			
Pentachlorophenol	1.49	0.20	0.20	ug/L	1.32		113	80-120			
Surrogate: DCAA	26.4			ug/L	22.5		118	80-120			

Matrix Spike (AH34689-MS1)											
				Source: 23H3114-01		Prepared: 08/24/23 Analyzed: 08/31/23					
2,4-D	9.57	1.0	1.0	ug/L	10.6	ND	90.6	70-130			
2,4-DB	13.2	1.0	4.0	ug/L	14.1	ND	93.4	70-130			
2,4,5-T	1.70	0.20	0.50	ug/L	1.76	ND	96.6	70-130			
2,4,5-TP (Silvex)	1.80	0.20	0.50	ug/L	1.76	ND	102	70-130			
Dalapon	22.7	2.0	6.0	ug/L	22.9	ND	99.1	70-130			
Dicamba	1.57	0.30	0.40	ug/L	1.76	ND	89.4	70-130			
Dinoseb	3.41	0.20	1.0	ug/L	3.52	ND	96.9	70-130			
Dichlorprop	4.38	0.40	1.0	ug/L	5.28	ND	83.0	70-130			
Pentachlorophenol	1.27	0.20	0.20	ug/L	1.32	ND	96.5	70-130			
Surrogate: DCAA	11.2			ug/L	12.5		89.4	62-124			

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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 AH34689 - Herbicides

Matrix Spike (AH34689-MS2)	Source: 23H3311-01			Prepared: 08/24/23 Analyzed: 08/31/23						
2,4-D	11.7	1.0	1.0	ug/L	10.6	ND	111	70-130		
2,4-DB	15.8	1.0	4.0	ug/L	14.1	ND	112	70-130		
2,4,5-T	1.98	0.20	0.50	ug/L	1.76	ND	113	70-130		
2,4,5-TP (Silvex)	2.21	0.20	0.50	ug/L	1.76	ND	126	70-130		
Dalapon	21.4	2.0	6.0	ug/L	22.9	ND	93.5	70-130		
Dicamba	1.90	0.30	0.40	ug/L	1.76	ND	108	70-130		
Dinoseb	4.37	0.20	1.0	ug/L	3.52	ND	124	70-130		
Dichlorprop	5.51	0.40	1.0	ug/L	5.28	ND	104	70-130		
Pentachlorophenol	1.67	0.20	0.20	ug/L	1.32	ND	126	70-130		
Surrogate: DCAA	13.7			ug/L	12.5		109	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 U3211CUFS

Reported:
 09/25/23 12:05

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 AH34688 - SVOAs in Water GC

Blank (AH34688-BLK1)

Prepared: 08/24/23 Analyzed: 09/05/23

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	1.92			ug/L	2.00		96.2	37-115			
Surrogate: Triphenyl phosphate	1.94			ug/L	2.00		96.9	44-145			

LCS (AH34688-BS1)

Prepared: 08/24/23 Analyzed: 09/05/23

Azinphos methyl	1.49	0.40	2.0	ug/L	2.00		74.4	42-147			J
Chlorpyrifos	1.43	0.70	1.0	ug/L	2.00		71.7	50-134			
Demeton-o	0.518	0.20	2.0	ug/L	0.750		69.0	18-128			J
Demeton-s	0.763	0.30	2.0	ug/L	1.25		61.1	43-125			J
Diazinon	1.36	0.30	0.50	ug/L	2.00		68.0	50-121			
Dichlorvos	1.56	0.40	2.0	ug/L	2.00		78.0	77-143			J
Dimethoate	1.33	1.0	2.0	ug/L	2.00		66.3	37-133			J
Disulfoton	1.34	0.30	2.0	ug/L	2.00		67.2	50-119			J
Malathion	1.34	0.80	2.0	ug/L	2.00		67.1	39-127			J
Parathion	1.47	0.90	2.0	ug/L	2.00		73.5	33-137			J
Parathion-methyl	1.37	0.40	2.0	ug/L	2.00		68.3	52-134			J
Phorate	1.38	0.40	2.0	ug/L	2.00		69.2	58-119			J
Ronnel	1.38	0.30	2.0	ug/L	2.00		68.8	41-135			J
Stirofos	1.50	0.30	2.0	ug/L	2.00		74.8	34-151			J
Thionazin	1.37	1.0	2.0	ug/L	2.00		68.5	60-118			J
Surrogate: Tributyl phosphate	1.88			ug/L	2.00		94.0	37-115			
Surrogate: Triphenyl phosphate	1.82			ug/L	2.00		91.0	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 U3211CUFS	Reported: 09/25/23 12:05
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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 AH34688 - SVOAs in Water GC

LCS Dup (AH34688-BSD1)

Prepared: 08/24/23 Analyzed: 09/05/23

Azinphos methyl	1.63	0.40	2.0	ug/L	2.00		81.5	42-147	9.17	30	J
Chlorpyrifos	1.60	0.70	1.0	ug/L	2.00		80.1	50-134	11.1	30	
Demeton-o	0.553	0.20	2.0	ug/L	0.750		73.7	18-128	6.55	30	J
Demeton-s	0.774	0.30	2.0	ug/L	1.25		61.9	43-125	1.42	30	J
Diazinon	1.52	0.30	0.50	ug/L	2.00		76.1	50-121	11.3	30	
Dichlorvos	1.71	0.40	2.0	ug/L	2.00		85.3	77-143	8.93	30	J
Dimethoate	1.43	1.0	2.0	ug/L	2.00		71.4	37-133	7.47	30	J
Disulfoton	1.44	0.30	2.0	ug/L	2.00		72.0	50-119	6.98	30	J
Malathion	1.45	0.80	2.0	ug/L	2.00		72.5	39-127	7.72	30	J
Parathion	1.60	0.90	2.0	ug/L	2.00		79.8	33-137	8.21	30	J
Parathion-methyl	1.48	0.40	2.0	ug/L	2.00		74.0	52-134	8.11	30	J
Phorate	1.44	0.40	2.0	ug/L	2.00		72.2	58-119	4.25	30	J
Ronnel	1.53	0.30	2.0	ug/L	2.00		76.5	41-135	10.6	30	J
Stirofos	1.69	0.30	2.0	ug/L	2.00		84.4	34-151	12.0	30	J
Thionazin	1.48	1.0	2.0	ug/L	2.00		73.8	60-118	7.57	30	J
Surrogate: Tributyl phosphate	1.90			ug/L	2.00		94.8	37-115			
Surrogate: Triphenyl phosphate	1.73			ug/L	2.00		86.5	44-145			



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Semivolatile Organic Compounds by EPA Method 625.1 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 AI34392 - SVOAs in Water GCMS

Blank (AI34392-BLK1)

Prepared: 08/28/23 Analyzed: 09/21/23

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	32.2			ug/L	40.0		80.6	24-119			
Surrogate: Nitrobenzene-d5	13.9			ug/L	40.0		34.6	15-314			
Surrogate: p-Terphenyl-d14	29.2			ug/L	40.0		72.9	37-139			

LCS (AI34392-BS1)

Prepared: 08/28/23 Analyzed: 09/21/23

Acenaphthylene	31.0	0.20	0.20	ug/L	40.0		77.6	54-126			
Anthracene	29.6	0.090	0.20	ug/L	40.0		73.9	43-120			
Benzo (a) anthracene	26.0	0.20	0.20	ug/L	40.0		65.0	42-133			
Benzo (a) pyrene	26.8	0.20	0.20	ug/L	40.0		67.0	32-148			
Benzo (b) fluoranthene	30.8	0.20	0.20	ug/L	40.0		77.0	42-140			
Benzo (g,h,i) perylene	28.0	0.10	0.20	ug/L	40.0		69.9	2-195			
Benzo (k) fluoranthene	27.8	0.20	0.20	ug/L	40.0		69.4	25-146			
Chrysene	26.8	0.20	0.20	ug/L	40.0		66.9	44-140			
Dibenz (a,h) anthracene	27.9	0.10	0.20	ug/L	40.0		69.7	2-200			
Fluorene	18.9	0.20	0.20	ug/L	40.0		47.2	45-120			
Indeno (1,2,3-cd) pyrene	28.6	0.030	0.20	ug/L	40.0		71.6	2-151			
Phenanthrene	26.5	0.10	0.20	ug/L	40.0		66.2	65-120			
Pyrene	28.3	0.20	0.20	ug/L	40.0		70.8	70-120			
Surrogate: 2-Fluorobiphenyl	28.3			ug/L	40.0		70.8	24-119			
Surrogate: Nitrobenzene-d5	19.9			ug/L	40.0		49.7	15-314			
Surrogate: p-Terphenyl-d14	25.8			ug/L	40.0		64.4	37-139			

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Semivolatile Organic Compounds by EPA Method 625.1 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 AI34392 - SVOs in Water GCMS

Matrix Spike (AI34392-MS1)		Source: 23H3318-01			Prepared: 08/28/23		Analyzed: 09/21/23	
Acenaphthylene	35.7	2.0	2.0	ug/L	40.0	ND	89.2	33-145
Anthracene	36.4	0.90	2.0	ug/L	40.0	ND	91.0	27-133
Benzo (a) anthracene	28.6	2.0	2.0	ug/L	40.0	ND	71.5	33-143
Benzo (a) pyrene	24.5	2.0	2.0	ug/L	40.0	ND	61.2	17-163
Benzo (b) fluoranthene	29.7	2.0	2.0	ug/L	40.0	ND	74.2	24-159
Benzo (g,h,i) perylene	24.1	1.0	2.0	ug/L	40.0	ND	60.2	2-219
Benzo (k) fluoranthene	20.5	2.0	2.0	ug/L	40.0	ND	51.2	11-162
Chrysene	26.2	2.0	2.0	ug/L	40.0	ND	65.5	17-168
Dibenz (a,h) anthracene	22.5	1.0	2.0	ug/L	40.0	ND	56.2	2-227
Fluorene	20.8	2.0	2.0	ug/L	40.0	ND	52.0	59-121
Indeno (1,2,3-cd) pyrene	23.2	0.30	2.0	ug/L	40.0	ND	58.0	2-171
Phenanthrene	27.8	1.0	2.0	ug/L	40.0	ND	69.5	54-120
Pyrene	30.7	2.0	2.0	ug/L	40.0	ND	76.8	52-120
Surrogate: 2-Fluorobiphenyl	30.6			ug/L	40.0		76.5	24-119
Surrogate: Nitrobenzene-d5	20.7			ug/L	40.0		51.8	15-314
Surrogate: p-Terphenyl-d14	27.5			ug/L	40.0		68.8	37-139

QM-05

Matrix Spike Dup (AI34392-MSD1)		Source: 23H3318-01			Prepared: 08/28/23		Analyzed: 09/21/23			
Acenaphthylene	30.4	2.0	2.0	ug/L	40.0	ND	76.0	33-145	16.0	74
Anthracene	27.7	0.90	2.0	ug/L	40.0	ND	69.2	27-133	27.1	66
Benzo (a) anthracene	22.0	2.0	2.0	ug/L	40.0	ND	55.0	33-143	26.1	53
Benzo (a) pyrene	18.6	2.0	2.0	ug/L	40.0	ND	46.5	17-163	27.4	72
Benzo (b) fluoranthene	22.3	2.0	2.0	ug/L	40.0	ND	55.8	24-159	28.5	71
Benzo (g,h,i) perylene	18.0	1.0	2.0	ug/L	40.0	ND	45.0	2-219	29.0	97
Benzo (k) fluoranthene	14.4	2.0	2.0	ug/L	40.0	ND	36.0	11-162	35.0	63
Chrysene	19.5	2.0	2.0	ug/L	40.0	ND	48.8	17-168	29.3	87
Dibenz (a,h) anthracene	16.8	1.0	2.0	ug/L	40.0	ND	42.0	2-227	29.0	126
Fluorene	12.9	2.0	2.0	ug/L	40.0	ND	32.2	59-121	46.9	38
Indeno (1,2,3-cd) pyrene	17.3	0.30	2.0	ug/L	40.0	ND	43.2	2-171	29.1	99
Phenanthrene	19.0	1.0	2.0	ug/L	40.0	ND	47.5	54-120	37.6	39
Pyrene	20.8	2.0	2.0	ug/L	40.0	ND	52.0	52-120	38.4	49
Surrogate: 2-Fluorobiphenyl	27.2			ug/L	40.0		68.0	24-119		
Surrogate: Nitrobenzene-d5	14.1			ug/L	40.0		35.2	15-314		
Surrogate: p-Terphenyl-d14	21.3			ug/L	40.0		53.2	37-139		

QM-05

QM-05

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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 AH34880 - SVOAs in Water GCMS

Blank (AH34880-BLK1)

Prepared: 08/28/23 Analyzed: 09/06/23

Acenaphthene	ND	0.90	1.0	ug/L							U
Acenaphthylene	ND	1.0	2.0	ug/L							U
Anthracene	ND	0.40	2.0	ug/L							U
Benzo (a) anthracene	ND	0.30	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	0.90	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	3.0	5.0	ug/L							U
4-Chloro-3-methylphenol	ND	0.80	1.0	ug/L							U
2-Chloronaphthalene	ND	1.0	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	6.0	10	ug/L							U
Di-n-octyl phthalate	ND	0.50	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	1.0	2.0	ug/L							U
Dimethyl phthalate	ND	1.0	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	4.6	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	0.20	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 AH34880 - SVOAs in Water GCMS

Blank (AH34880-BLK1)

Prepared: 08/28/23 Analyzed: 09/06/23

Hexachlorobenzene	ND	0.90	1.0	ug/L							U
Hexachlorobutadiene	ND	0.80	1.0	ug/L							U
Hexachlorocyclopentadiene	ND	2.0	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	0.90	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	0.70	2.0	ug/L							U
N-Nitrosodiphenylamine	ND	0.50	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	10	20	ug/L							U
2-Nitrophenol	ND	3.0	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	0.30	2.0	ug/L							U
1,2,4-Trichlorobenzene	ND	0.60	2.0	ug/L							U
2,4,5-Trichlorophenol	ND	1.0	2.0	ug/L							U
2,4,6-Trichlorophenol	ND	1.0	2.0	ug/L							U
Surrogate: 2-Fluorobiphenyl	32.8			ug/L	40.0		81.9	27-119			
Surrogate: 2-Fluorophenol	8.70			ug/L	40.0		21.8	7-85			
Surrogate: Nitrobenzene-d5	33.5			ug/L	40.0		83.8	15-314			
Surrogate: p-Terphenyl-d14	35.7			ug/L	40.0		89.4	36-141			
Surrogate: Phenol-d6	5.58			ug/L	40.0		14.0	1-65			
Surrogate: 2,4,6-Tribromophenol	11.3			ug/L	40.0		28.2	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 U3211CUFS	Reported: 09/25/23 12:05
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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 AH34880 - SVOAs in Water GCMS

LCS (AH34880-BS1)

Prepared: 08/28/23 Analyzed: 09/05/23

Acenaphthene	28	0.90	1.0	ug/L	40.0		69.6	60-132			
Acenaphthylene	31	1.0	2.0	ug/L	40.0		78.0	54-126			
Anthracene	31	0.40	2.0	ug/L	40.0		76.4	43-120			
Benzo (a) anthracene	31	0.30	2.0	ug/L	40.0		77.4	42-133			
Benzo (a) pyrene	31	0.50	2.0	ug/L	40.0		76.9	32-148			
Benzo (b) fluoranthene	31	0.60	2.0	ug/L	40.0		77.7	42-140			
Benzo (g,h,i) perylene	33	0.90	2.0	ug/L	40.0		82.8	2-195			
Benzo (k) fluoranthene	28	0.50	2.0	ug/L	40.0		71.1	25-146			
Bis(2-chloroethoxy)methane	29	0.90	2.0	ug/L	40.0		71.6	49-165			
Bis(2-chloroethyl)ether	34	0.90	1.0	ug/L	40.0		86.1	43-126			
Bis(2-chloroisopropyl)ether	26	0.90	1.0	ug/L	40.0		65.3	63-139			
Bis(2-ethylhexyl)phthalate	35	3.0	5.0	ug/L	40.0		88.0	29-137			
4-Bromophenyl phenyl ether	29	1.0	4.0	ug/L	40.0		72.0	65-120			
Butyl benzyl phthalate	4.7	3.0	5.0	ug/L	40.0		11.8	2-140			J
4-Chloro-3-methylphenol	28	0.80	1.0	ug/L	40.0		68.9	41-128			
2-Chloronaphthalene	29	1.0	2.0	ug/L	40.0		73.2	65-120			
2-Chlorophenol	15	0.70	2.0	ug/L	40.0		36.3	36-120			
4-Chlorophenyl phenyl ether	29	0.90	4.0	ug/L	40.0		72.2	38-145			
Chrysene	31	0.80	2.0	ug/L	40.0		76.8	44-140			
Di-n-butyl phthalate	26	6.0	10	ug/L	40.0		64.6	8-120			
Di-n-octyl phthalate	34	0.50	10	ug/L	40.0		84.4	19-132			
Dibenz (a,h) anthracene	34	0.80	2.0	ug/L	40.0		84.1	2-200			
Dibenzofuran	29	0.90	4.0	ug/L	40.0		71.5	57-107			
1,2-Dichlorobenzene	25	0.60	1.0	ug/L	40.0		63.0	33-93			
1,3-Dichlorobenzene	25	0.60	1.0	ug/L	40.0		61.8	31-92			
1,4-Dichlorobenzene	25	0.60	1.0	ug/L	40.0		62.2	32-91			
2,4-Dichlorophenol	29	0.70	2.0	ug/L	40.0		72.9	53-122			
Diethyl phthalate	9.8	1.0	2.0	ug/L	40.0		24.5	2-120			
Dimethyl phthalate	3.9	1.0	2.0	ug/L	40.0		9.68	2-120			
2,4-Dimethylphenol	21	1.0	2.0	ug/L	50.0		43.0	42-120			
4,6-Dinitro-2-methylphenol	24	3.0	4.0	ug/L	40.0		59.8	53-130			
2,4-Dinitrophenol	12	4.6	5.0	ug/L	40.0		29.4	10-173			
2,4-Dinitrotoluene	30	0.80	2.0	ug/L	40.0		75.9	48-127			
2,6-Dinitrotoluene	32	0.80	2.0	ug/L	40.0		80.5	68-137			
Fluoranthene	36	0.20	1.0	ug/L	40.0		88.8	43-121			
Fluorene	30	0.80	2.0	ug/L	40.0		74.4	70-120			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 1 Liter BRA Buttress Project Number: Lot number U3211CUFS	Reported: 09/25/23 12:05
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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 AH34880 - SVOAs in Water GCMS

LCS (AH34880-BS1)

Prepared: 08/28/23 Analyzed: 09/05/23

Hexachlorobenzene	30	0.90	1.0	ug/L	40.0	74.0	8-142
Hexachlorobutadiene	26	0.80	1.0	ug/L	40.0	65.3	38-120
Hexachlorocyclopentadiene	15	2.0	4.0	ug/L	40.0	38.0	16-93
Hexachloroethane	24	0.60	1.0	ug/L	40.0	58.8	55-120
Indeno (1,2,3-cd) pyrene	34	0.60	2.0	ug/L	40.0	84.5	2-151
Isophorone	30	0.90	1.0	ug/L	40.0	74.0	47-180
2-Methylnaphthalene	29	1.0	2.0	ug/L	40.0	71.5	45-106
2-Methylphenol (o-cresol)	21	0.60	5.0	ug/L	40.0	53.2	36-102
3 & 4-Methylphenol (m & p-cresol)	18	0.60	5.0	ug/L	40.0	44.3	38-93
N-Nitrosodi-n-propylamine	28	0.80	2.0	ug/L	40.0	71.0	14-198
N-Nitrosodimethylamine	18	0.70	2.0	ug/L	40.0	46.0	19-81
N-Nitrosodiphenylamine	30	0.50	1.0	ug/L	40.0	74.2	54-111
Naphthalene	26	0.70	1.0	ug/L	40.0	65.1	36-120
2-Nitroaniline	46	1.0	20	ug/L	60.0	76.1	53-128
3-Nitroaniline	45	5.0	50	ug/L	60.0	74.4	50-137
4-Nitroaniline	44	10	20	ug/L	60.0	73.2	25-191
2-Nitrophenol	19	3.0	10	ug/L	40.0	46.6	45-167
4-Nitrophenol	29	3.0	5.0	ug/L	40.0	71.4	13-129
Nitrobenzene	29	0.90	1.0	ug/L	40.0	71.6	54-158
Pentachlorophenol	16	4.0	5.0	ug/L	40.0	39.9	38-152
Phenanthrene	30	0.90	2.0	ug/L	40.0	75.9	65-120
Phenol	8.8	0.50	1.0	ug/L	40.0	21.9	17-120
Pyrene	31	0.30	2.0	ug/L	40.0	78.3	70-120
1,2,4-Trichlorobenzene	26	0.60	2.0	ug/L	40.0	65.6	57-130
2,4,5-Trichlorophenol	24	1.0	2.0	ug/L	40.0	59.6	44-141
2,4,6-Trichlorophenol	22	1.0	2.0	ug/L	40.0	53.8	52-129
Surrogate: 2-Fluorobiphenyl	30.0			ug/L	40.0	74.9	27-119
Surrogate: 2-Fluorophenol	9.98			ug/L	40.0	25.0	7-85
Surrogate: Nitrobenzene-d5	29.8			ug/L	40.0	74.6	15-314
Surrogate: p-Terphenyl-d14	32.1			ug/L	40.0	80.2	36-141
Surrogate: Phenol-d6	6.35			ug/L	40.0	15.9	1-65
Surrogate: 2,4,6-Tribromophenol	17.6			ug/L	40.0	44.1	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 AH34880 - SVOAs in Water GCMS

Matrix Spike (AH34880-MS1)	Source: 23H3318-01			Prepared: 08/28/23		Analyzed: 09/06/23					
Acenaphthene	28	9.0	10	ug/L	40.0	ND	70.0	47-145			
Acenaphthylene	31	10	20	ug/L	40.0	ND	76.8	33-145			
Anthracene	29	4.0	20	ug/L	40.0	ND	72.5	27-133			
Benzo (a) anthracene	31	3.0	20	ug/L	40.0	ND	76.5	33-143			
Benzo (a) pyrene	27	5.0	20	ug/L	40.0	ND	67.5	17-163			
Benzo (b) fluoranthene	26	6.0	20	ug/L	40.0	ND	66.0	24-159			
Benzo (g,h,i) perylene	27	9.0	20	ug/L	40.0	ND	66.5	2-219			
Benzo (k) fluoranthene	26	5.0	20	ug/L	40.0	ND	63.8	11-162			
Bis(2-chloroethoxy)methane	29	9.0	20	ug/L	40.0	ND	71.8	33-184			
Bis(2-chloroethyl)ether	23	9.0	10	ug/L	40.0	ND	57.0	12-158			
Bis(2-chloroisopropyl)ether	26	9.0	10	ug/L	40.0	ND	64.8	36-166			
Bis(2-ethylhexyl)phthalate	130	30	50	ug/L	40.0	210	NR	8-158			QM-05
4-Bromophenyl phenyl ether	27	10	40	ug/L	40.0	ND	68.5	53-127			J
Butyl benzyl phthalate	ND	30	50	ug/L	40.0	ND		2-152			QM-05, U
4-Chloro-3-methylphenol	9.5	8.0	10	ug/L	40.0	ND	23.8	22-147			J
2-Chloronaphthalene	29	10	20	ug/L	40.0	ND	72.5	60-120			
2-Chlorophenol	ND	7.0	20	ug/L	40.0	ND		23-134			QM-05, U
4-Chlorophenyl phenyl ether	30	9.0	40	ug/L	40.0	ND	76.0	25-158			J
Chrysene	30	8.0	20	ug/L	40.0	ND	74.2	17-168			
Di-n-butyl phthalate	ND	60	100	ug/L	40.0	ND		1-120			QM-05, U
Di-n-octyl phthalate	30	5.0	100	ug/L	40.0	6.4	59.0	4-146			J
Dibenz (a,h) anthracene	25	8.0	20	ug/L	40.0	ND	62.8	2-227			
Dibenzofuran	29	9.0	40	ug/L	40.0	ND	72.0	57-107			J
1,2-Dichlorobenzene	22	6.0	10	ug/L	40.0	ND	55.8	7-104			
1,3-Dichlorobenzene	21	6.0	10	ug/L	40.0	ND	53.2	1-106			
1,4-Dichlorobenzene	22	6.0	10	ug/L	40.0	ND	56.2	3-105			
2,4-Dichlorophenol	ND	7.0	20	ug/L	40.0	ND		39-135			QM-05, U
Diethyl phthalate	ND	10	20	ug/L	40.0	ND		2-120			QM-05, U
Dimethyl phthalate	ND	10	20	ug/L	40.0	ND		2-120			QM-05, U
2,4-Dimethylphenol	13	10	20	ug/L	50.0	ND	26.8	32-120			QM-05, J
4,6-Dinitro-2-methylphenol	ND	30	40	ug/L	40.0	ND		7-181			QM-05, U
2,4-Dinitrophenol	ND	46	50	ug/L	40.0	ND		10-191			QM-05, U
2,4-Dinitrotoluene	26	8.0	20	ug/L	40.0	ND	63.8	39-139			
2,6-Dinitrotoluene	29	8.0	20	ug/L	40.0	ND	72.2	50-158			
Fluoranthene	32	2.0	10	ug/L	40.0	ND	79.2	26-137			
Fluorene	29	8.0	20	ug/L	40.0	ND	71.8	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 U3211CUFS	Reported: 09/25/23 12:05
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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 AH34880 - SVOAs in Water GCMS

Matrix Spike (AH34880-MS1)	Source: 23H3318-01			Prepared: 08/28/23		Analyzed: 09/06/23				
Hexachlorobenzene	30	9.0	10	ug/L	40.0	ND	76.0	2-152		
Hexachlorobutadiene	24	8.0	10	ug/L	40.0	ND	59.2	24-120		
Hexachlorocyclopentadiene	ND	20	40	ug/L	40.0	ND		10-93		QM-05, U
Hexachloroethane	22	6.0	10	ug/L	40.0	ND	54.2	40-120		
Indeno (1,2,3-cd) pyrene	26	6.0	20	ug/L	40.0	ND	65.8	2-171		
Isophorone	28	9.0	10	ug/L	40.0	ND	70.5	21-196		
2-Methylnaphthalene	27	10	20	ug/L	40.0	ND	67.0	44-106		
2-Methylphenol (o-cresol)	12	6.0	50	ug/L	40.0	ND	28.8	9-124		J
3 & 4-Methylphenol (m & p-cresol)	7.2	6.0	50	ug/L	40.0	ND	18.0	12-99		J
N-Nitrosodi-n-propylamine	28	8.0	20	ug/L	40.0	ND	70.0	2-230		
N-Nitrosodimethylamine	21	7.0	20	ug/L	40.0	ND	52.0	10-84		
N-Nitrosodiphenylamine	28	5.0	10	ug/L	40.0	ND	69.2	40-115		
Naphthalene	26	7.0	10	ug/L	40.0	ND	65.5	21-133		
2-Nitroaniline	43	10	200	ug/L	60.0	ND	71.3	48-128		J
3-Nitroaniline	ND	50	500	ug/L	60.0	ND		17-137		QM-05, U
4-Nitroaniline	ND	100	200	ug/L	60.0	ND		13-191		QM-05, U
2-Nitrophenol	ND	30	100	ug/L	40.0	ND		29-182		QM-05, U
4-Nitrophenol	ND	30	50	ug/L	40.0	ND		7-132		QM-05, U
Nitrobenzene	28	9.0	10	ug/L	40.0	ND	68.8	35-180		
Pentachlorophenol	ND	40	50	ug/L	40.0	ND		14-176		QM-05, U
Phenanthrene	30	9.0	20	ug/L	40.0	ND	75.2	54-120		
Phenol	ND	5.0	10	ug/L	40.0	ND		5-120		QM-05, U
Pyrene	31	3.0	20	ug/L	40.0	ND	76.8	52-120		
1,2,4-Trichlorobenzene	26	6.0	20	ug/L	40.0	ND	65.8	44-142		
2,4,5-Trichlorophenol	ND	10	20	ug/L	40.0	ND		65-125		QM-05, U
2,4,6-Trichlorophenol	ND	10	20	ug/L	40.0	ND		37-144		QM-05, U
Surrogate: 2-Fluorobiphenyl	30.5			ug/L	40.0		76.2	27-119		
Surrogate: 2-Fluorophenol	2.00			ug/L	40.0		5.00	7-85		S-GC
Surrogate: Nitrobenzene-d5	29.1			ug/L	40.0		72.8	15-314		
Surrogate: p-Terphenyl-d14	29.5			ug/L	40.0		73.8	36-141		
Surrogate: Phenol-d6	3.50			ug/L	40.0		8.75	1-65		
Surrogate: 2,4,6-Tribromophenol	1.50			ug/L	40.0		3.75	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 U3211CUFS	Reported: 09/25/23 12:05
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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 AH34880 - SVOAs in Water GCMS

Matrix Spike Dup (AH34880-MSD1)	Source: 23H3318-01			Prepared: 08/28/23		Analyzed: 09/06/23					
Acenaphthene	21	9.0	10	ug/L	40.0	ND	51.8	47-145	30.0	48	
Acenaphthylene	23	10	20	ug/L	40.0	ND	58.5	33-145	27.0	74	
Anthracene	22	4.0	20	ug/L	40.0	ND	56.2	27-133	25.2	66	
Benzo (a) anthracene	22	3.0	20	ug/L	40.0	ND	55.8	33-143	31.4	53	
Benzo (a) pyrene	21	5.0	20	ug/L	40.0	ND	51.5	17-163	26.9	72	
Benzo (b) fluoranthene	20	6.0	20	ug/L	40.0	ND	50.2	24-159	27.1	71	
Benzo (g,h,i) perylene	19	9.0	20	ug/L	40.0	ND	47.8	2-219	32.8	97	J
Benzo (k) fluoranthene	20	5.0	20	ug/L	40.0	ND	49.0	11-162	26.2	63	
Bis(2-chloroethoxy)methane	22	9.0	20	ug/L	40.0	ND	54.2	33-184	27.8	54	
Bis(2-chloroethyl)ether	18	9.0	10	ug/L	40.0	ND	46.2	12-158	20.8	108	
Bis(2-chloroisopropyl)ether	20	9.0	10	ug/L	40.0	ND	50.8	36-166	24.2	76	
Bis(2-ethylhexyl)phthalate	84	30	50	ug/L	40.0	210	NR	8-158	40.8	82	QM-05
4-Bromophenyl phenyl ether	21	10	40	ug/L	40.0	ND	51.5	53-127	28.3	43	QM-05, J
Butyl benzyl phthalate	ND	30	50	ug/L	40.0	ND		2-152		60	QM-05, U
4-Chloro-3-methylphenol	ND	8.0	10	ug/L	40.0	ND		22-147	200	73	QM-05, U
2-Chloronaphthalene	22	10	20	ug/L	40.0	ND	54.0	60-120	29.2	24	QM-05
2-Chlorophenol	ND	7.0	20	ug/L	40.0	ND		23-134		61	QM-05, U
4-Chlorophenyl phenyl ether	22	9.0	40	ug/L	40.0	ND	54.5	25-158	33.0	61	J
Chrysene	22	8.0	20	ug/L	40.0	ND	56.2	17-168	27.6	87	
Di-n-butyl phthalate	ND	60	100	ug/L	40.0	ND		1-120		47	QM-05, U
Di-n-octyl phthalate	15	5.0	100	ug/L	40.0	6.4	22.5	4-146	64.3	69	J
Dibenz (a,h) anthracene	18	8.0	20	ug/L	40.0	ND	44.5	2-227	34.0	126	J
Dibenzofuran	21	9.0	40	ug/L	40.0	ND	53.2	57-107	29.9	29	QM-05, J
1,2-Dichlorobenzene	19	6.0	10	ug/L	40.0	ND	47.8	7-104	15.5	41	
1,3-Dichlorobenzene	19	6.0	10	ug/L	40.0	ND	46.8	1-106	13.0	41	
1,4-Dichlorobenzene	19	6.0	10	ug/L	40.0	ND	46.8	3-105	18.4	42	
2,4-Dichlorophenol	ND	7.0	20	ug/L	40.0	ND		39-135		50	QM-05, U
Diethyl phthalate	ND	10	20	ug/L	40.0	ND		2-120		100	QM-05, U
Dimethyl phthalate	ND	10	20	ug/L	40.0	ND		2-120		183	QM-05, U
2,4-Dimethylphenol	ND	10	20	ug/L	50.0	ND		32-120	200	58	QM-05, U
4,6-Dinitro-2-methylphenol	ND	30	40	ug/L	40.0	ND		7-181		203	QM-05, U
2,4-Dinitrophenol	ND	46	50	ug/L	40.0	ND		10-191		132	QM-05, U
2,4-Dinitrotoluene	20	8.0	20	ug/L	40.0	ND	49.5	39-139	25.2	42	
2,6-Dinitrotoluene	22	8.0	20	ug/L	40.0	ND	53.8	50-158	29.4	48	
Fluoranthene	22	2.0	10	ug/L	40.0	ND	55.0	26-137	36.1	66	
Fluorene	22	8.0	20	ug/L	40.0	ND	55.0	59-121	26.4	38	QM-05

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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 U3211CUFS	Reported: 09/25/23 12:05
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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 AH34880 - SVOAs in Water GCMS

Matrix Spike Dup (AH34880-MSD1)	Source: 23H3318-01	Prepared: 08/28/23	Analyzed: 09/06/23									
Hexachlorobenzene	21	9.0	10	ug/L	40.0	ND	53.5	2-152	34.7	55		
Hexachlorobutadiene	18	8.0	10	ug/L	40.0	ND	46.0	24-120	25.2	62		
Hexachlorocyclopentadiene	ND	20	40	ug/L	40.0	ND		10-93		55	QM-05, U	
Hexachloroethane	19	6.0	10	ug/L	40.0	ND	47.8	40-120	12.7	52		
Indeno (1,2,3-cd) pyrene	19	6.0	20	ug/L	40.0	ND	48.0	2-171	31.2	99	J	
Isophorone	22	9.0	10	ug/L	40.0	ND	54.0	21-196	26.5	93		
2-Methylnaphthalene	20	10	20	ug/L	40.0	ND	49.5	44-106	30.0	33		
2-Methylphenol (o-cresol)	7.4	6.0	50	ug/L	40.0	ND	18.5	9-124	43.4	33	QM-05, J	
3 & 4-Methylphenol (m & p-cresol)	ND	6.0	50	ug/L	40.0	ND		12-99	200	33	QM-05, U	
N-Nitrosodi-n-propylamine	21	8.0	20	ug/L	40.0	ND	52.2	2-230	29.0	87		
N-Nitrosodimethylamine	20	7.0	20	ug/L	40.0	ND	49.8	10-84	4.42	59		
N-Nitrosodiphenylamine	20	5.0	10	ug/L	40.0	ND	50.0	40-115	32.3	25	QM-05	
Naphthalene	20	7.0	10	ug/L	40.0	ND	50.0	21-133	26.8	65		
2-Nitroaniline	33	10	200	ug/L	60.0	ND	54.7	48-128	26.5	26	QM-05, J	
3-Nitroaniline	ND	50	500	ug/L	60.0	ND		17-137		25	QM-05, U	
4-Nitroaniline	ND	100	200	ug/L	60.0	ND		13-191		33	QM-05, U	
2-Nitrophenol	ND	30	100	ug/L	40.0	ND		29-182		55	QM-05, U	
4-Nitrophenol	ND	30	50	ug/L	40.0	ND		7-132		131	QM-05, U	
Nitrobenzene	21	9.0	10	ug/L	40.0	ND	51.8	35-180	28.2	62		
Pentachlorophenol	ND	40	50	ug/L	40.0	ND		14-176		86	QM-05, U	
Phenanthrene	23	9.0	20	ug/L	40.0	ND	57.5	54-120	26.7	39		
Phenol	ND	5.0	10	ug/L	40.0	ND		5-120		64	QM-05, U	
Pyrene	23	3.0	20	ug/L	40.0	ND	56.8	52-120	30.0	49		
1,2,4-Trichlorobenzene	20	6.0	20	ug/L	40.0	ND	49.5	44-142	28.2	50		
2,4,5-Trichlorophenol	ND	10	20	ug/L	40.0	ND		65-125		25	QM-05, U	
2,4,6-Trichlorophenol	ND	10	20	ug/L	40.0	ND		37-144		58	QM-05, U	
Surrogate: 2-Fluorobiphenyl	25.1			ug/L	40.0		62.8	27-119				
Surrogate: 2-Fluorophenol	1.80			ug/L	40.0		4.50	7-85			S-GC	
Surrogate: Nitrobenzene-d5	25.3			ug/L	40.0		63.2	15-314				
Surrogate: p-Terphenyl-d14	25.5			ug/L	40.0		63.8	36-141				
Surrogate: Phenol-d6	2.40			ug/L	40.0		6.00	1-65				
Surrogate: 2,4,6-Tribromophenol	0.00			ug/L	40.0			4-168			S-GC, 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 U3211CUFS	Reported: 09/25/23 12:05
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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 AH34881 - SVOAs in Water GCMS

Blank (AH34881-BLK1)		Prepared: 08/28/23 Analyzed: 09/06/23									
Benzidine	ND	3.0	5.0	ug/L							U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L							U
Surrogate: 2-Fluorobiphenyl	32.7			ug/L	40.0		81.8	27-119			
Surrogate: Nitrobenzene-d5	34.2			ug/L	40.0		85.4	15-314			
Surrogate: p-Terphenyl-d14	36.9			ug/L	40.0		92.4	36-141			

LCS (AH34881-BS1)		Prepared: 08/28/23 Analyzed: 09/06/23									
Benzidine	54.4	3.0	5.0	ug/L	80.0		68.0	12-151			
3,3'-Dichlorobenzidine	82.4	2.0	5.0	ug/L	80.0		103	8-120			
Surrogate: 2-Fluorobiphenyl	32.7			ug/L	40.0		81.8	27-119			
Surrogate: Nitrobenzene-d5	34.6			ug/L	40.0		86.4	15-314			
Surrogate: p-Terphenyl-d14	35.6			ug/L	40.0		88.9	36-141			

Matrix Spike (AH34881-MS1)		Source: 23H3446-01		Prepared: 08/28/23 Analyzed: 09/06/23								
Benzidine	35.6	3.0	5.0	ug/L	80.0	ND	44.5	4-262				
3,3'-Dichlorobenzidine	76.4	2.0	5.0	ug/L	80.0	ND	95.4	4-262				
Surrogate: 2-Fluorobiphenyl	34.5			ug/L	40.0		86.2	27-119				
Surrogate: Nitrobenzene-d5	32.5			ug/L	40.0		81.2	15-314				
Surrogate: p-Terphenyl-d14	28.0			ug/L	40.0		70.0	36-141				

Matrix Spike Dup (AH34881-MSD1)		Source: 23H3446-01		Prepared: 08/28/23 Analyzed: 09/06/23								
Benzidine	13.3	3.0	5.0	ug/L	80.0	ND	16.6	4-262	91.1	108		
3,3'-Dichlorobenzidine	71.2	2.0	5.0	ug/L	80.0	ND	89.0	4-262	6.92	108		
Surrogate: 2-Fluorobiphenyl	33.1			ug/L	40.0		82.8	27-119				
Surrogate: Nitrobenzene-d5	31.3			ug/L	40.0		78.2	15-314				
Surrogate: p-Terphenyl-d14	27.4			ug/L	40.0		68.4	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 U3211CUFS

Reported:
09/25/23 12:05

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.
- QM-08 The RPD was outside acceptance limits for MS/MSD, possibly 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-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates.
- 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

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

Chain of Custody Record

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

Lab No. 2343206 Page of

Laboratory & Corporate: 208 Mason Street, Ukiah, CA 95482
707-488-0401 Fax: 707-488-5287

Service Center & Micro Lab: 6398 Dougherty Rd, Ste 35, Dublin, CA 94568
925-828-8226 Fax: 925-828-6309

 **Alpha**
Alpha Analytical Laboratories Inc.
e-mail: clientservices@alpha-labs.com

Report to: Company: <u>Sample Traps LLC</u> Attn: _____ Address: _____ Phone/Fax: _____ Email Address: <u>admin@sampletraps.com</u>		Project info for Report: Project ID: <u>QC- 1 Liter BRA Buttress</u> Project No: <u>Lot number U3211CUFS</u> PO/Reference : _____		Signature: _____ Print: _____	
Invoice to (if different): Company: _____ Attn: _____ Address: _____ Phone/Fax: _____ Email Address: _____		Signature below authorizes work under terms stated on reverse side.			
Analyses Requested		TAT 10 days <input type="radio"/> RUSH: 5 days <input checked="" type="radio"/> 48 hours <input type="radio"/> Other: _____ days <input type="radio"/>		Sample Notes (lab use only) Temperature: <u>2.1</u> deg. C Shipment Method: _____ Custody Seals: Y / N	
include j-flag reporting <input checked="" type="checkbox"/>		Lab Approval Required For Rush TATs _____		Sample Notes or CDPH Source Numbers: _____	
Total Number of Containers: _____		Matrix:			
40ml VOA <input type="checkbox"/>		HCL <input type="checkbox"/>			
Glass bottle <input type="checkbox"/>		Methanol <input type="checkbox"/>			
Glass Jar <input type="checkbox"/>		Na Bisulfate <input type="checkbox"/>			
Poly <input checked="" type="checkbox"/>		Other <input type="checkbox"/>			
Water <input checked="" type="checkbox"/>		None <input checked="" type="checkbox"/>			
Container: _____		Matrix: _____			
Date: _____		Time: _____			
Sampled: _____		Date: _____			
U3211CUFS - 01		2			
U3211CUFS - 02		2			
U3211CUFS - 03		2			
U3211CUFS - 04		2			
U3211CUFS - 05		2			
Relinquished by: <u>[Signature]</u>		Date: <u>8-7-03 1800</u>		Time: _____	
Received by: <u>[Signature]</u>		Date: <u>8-7-03 2200</u>		Time: _____	
State System Number: _____		If "Y" please enter the Source Number(s) in the column above			
CA Geotracker EDF Report? <input type="radio"/> Yes <input type="radio"/> No		Sampling Company Log Code: _____			
Global ID: _____		Mileage: _____			
EDF to (Email Address): _____		Misc. Supplies: _____			
Travel and Site Time: _____		_____			