



*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

18 February 2020

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 950cc Widemouth Amber Packer

Work Order: 20A1300

Enclosed are the results of analyses for samples received by the laboratory on 01/09/20 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin

Project Manager



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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 950cc Widemouth Amber Packer  
Project Number: Lot Number T9340CUFS

Reported:  
02/18/20 13:53

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | T: 925-828-6226 | F: 925-828-6309 | ELAP# 2728  
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | T: 916-686-5190 | F: 916-686-5192 | ELAP# 2922  
North Bay: 110 Liberty Street | Petaluma, CA 94952 | T: 707-769-3128 | F: 707-769-8093 | ELAP# 2303  
San Diego Service Center: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T9340CUFS - 01	20A1300-01	Water	01/09/20 00:00	01/09/20 08:00
T9340CUFS - 02	20A1300-02	Water	01/09/20 00:00	01/09/20 08:00
T9340CUFS - 03	20A1300-03	Water	01/09/20 00:00	01/09/20 08:00
T9340CUFS - 04	20A1300-04	Water	01/09/20 00:00	01/09/20 08:00
T9340CUFS - 05	20A1300-05	Water	01/09/20 00:00	01/09/20 08:00



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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 950cc Widemouth Amber Packer  
 Project Number: Lot Number T9340CUFS

Reported:  
 02/18/20 13:53

### Organochlorine Pesticides and PCBs by EPA Method 8081/8082

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>T9340CUFS - 01 (20A1300-01) Water</b>												
<b>Sampled: 01/09/20 00:00 Received: 01/09/20 08:00</b>												
<b>T-05</b>												
Aldrin	ND	0.0090	0.010	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
alpha-BHC	ND	0.0080	0.010	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
beta-BHC	ND	0.020	0.050	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
delta-BHC	ND	0.020	0.050	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
gamma-BHC (Lindane)	ND	0.0080	0.010	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Chlordane (tech)	ND	0.20	0.50	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
4,4'-DDD	ND	0.020	0.020	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
4,4'-DDE	ND	0.020	0.020	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
4,4'-DDT	ND	0.020	0.020	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Dieldrin	ND	0.0070	0.010	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Endosulfan I	ND	0.0090	0.010	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Endosulfan II	ND	0.020	0.020	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Endosulfan sulfate	ND	0.020	0.050	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Endrin	ND	0.0090	0.010	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Endrin aldehyde	ND	0.020	0.050	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Heptachlor	ND	0.010	0.020	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Heptachlor epoxide	ND	0.020	0.020	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Methoxychlor	ND	0.020	0.020	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
Toxaphene	ND	0.10	0.50	ug/L	1	AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	U
PCB-1016	ND	0.080	0.50	ug/L	1	AA04809	01/29/20 00:00	01/31/20 21:51	EPA 8081A/8082	MCB	1551	U
PCB-1221	ND	0.20	0.50	ug/L	1	AA04809	01/29/20 00:00	01/31/20 21:51	EPA 8081A/8082	MCB	1551	U
PCB-1232	ND	0.10	0.50	ug/L	1	AA04809	01/29/20 00:00	01/31/20 21:51	EPA 8081A/8082	MCB	1551	U
PCB-1242	ND	0.040	0.50	ug/L	1	AA04809	01/29/20 00:00	01/31/20 21:51	EPA 8081A/8082	MCB	1551	U
PCB-1248	ND	0.060	0.50	ug/L	1	AA04809	01/29/20 00:00	01/31/20 21:51	EPA 8081A/8082	MCB	1551	U
PCB-1254	ND	0.040	0.50	ug/L	1	AA04809	01/29/20 00:00	01/31/20 21:51	EPA 8081A/8082	MCB	1551	U
PCB-1260	ND	0.040	0.50	ug/L	1	AA04809	01/29/20 00:00	01/31/20 21:51	EPA 8081A/8082	MCB	1551	U
Surrogate: Dibutylchlorendate		68.9 %	63-124			AA04809	01/29/20 00:00	01/31/20 22:33	EPA 8081A/8082	MCB	1551	

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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 950cc Widemouth Amber Packer  
 Project Number: Lot Number T9340CUFS

Reported:  
 02/18/20 13:53

**Chlorinated Herbicides by EPA Method 8151A**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>T9340CUFS - 03 (20A1300-03) Water</b>												<b>T-02</b>
<b>Sampled: 01/09/20 00:00 Received: 01/09/20 08:00</b>												
2,4-D	ND	0.80	0.80	ug/L	1	AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	U
2,4-DB	ND	0.80	3.2	ug/L	1	AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	U
2,4,5-T	ND	0.072	0.40	ug/L	1	AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	U
2,4,5-TP (Silvex)	ND	0.16	0.40	ug/L	1	AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	U
Dalapon	ND	1.6	4.8	ug/L	1	AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	U
Dicamba	ND	0.080	0.32	ug/L	1	AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	U
Dinoseb	ND	0.16	0.80	ug/L	1	AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	U
Dichlorprop	ND	0.32	0.80	ug/L	1	AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	U
Pentachlorophenol	ND	0.072	0.16	ug/L	1	AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	U
Surrogate: DCAA			93.7 %	62-124		AA04807	01/29/20 00:00	02/04/20 22:37	EPA 8151A	MCB	1551	



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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**Organophosphorus Compounds by EPA Method 8141A**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>T9340CUFS - 02 (20A1300-02) Water</b>												
<b>Sampled: 01/09/20 00:00 Received: 01/09/20 08:00</b>												
<b>T-02</b>												
Azinphos ethyl	ND	1.0	2.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Azinphos methyl	ND	0.40	2.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Bolstar	ND	0.30	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Chlorpyrifos	ND	0.70	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Coumaphos	ND	0.80	2.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Demeton-o	ND	0.20	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Demeton-s	ND	0.30	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Diazinon	ND	0.30	0.50	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Dichlorvos	ND	0.40	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Dimethoate	ND	1.0	2.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Disulfoton	ND	0.30	0.50	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
EPN	ND	0.50	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Ethion	ND	0.80	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Ethoprop (Ethoprophos)	ND	0.40	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Fensulfothion	ND	0.80	2.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Fenthion	ND	0.50	0.50	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Malathion	ND	0.80	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Mevinphos	ND	0.80	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Parathion	ND	0.90	2.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Parathion-methyl	ND	0.40	0.50	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Phorate	ND	0.40	0.50	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Ronnel	ND	0.30	0.50	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Stirofos	ND	0.30	0.50	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Thionazin	ND	1.0	2.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Tokuthion (Prothiofos)	ND	0.40	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Trichloronate	ND	0.40	1.0	ug/L	1	AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	U
Surrogate: Tributyl phosphate		81.8 %	37-115			AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	
Surrogate: Triphenyl phosphate		98.9 %	44-145			AA04745	01/28/20 00:00	02/12/20 13:14	EPA 8141A	MCB	1551	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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### Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>T9340CUFS - 04 (20A1300-04) Water Sampled: 01/09/20 00:00 Received: 01/09/20 08:00</b>												
Acenaphthene	ND	0.60	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Acenaphthylene	ND	0.50	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Anthracene	ND	0.40	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Benzo (a) anthracene	ND	0.40	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Benzo (a) pyrene	ND	0.50	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Benzo (b) fluoranthene	ND	0.60	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Benzo (g,h,i) perylene	ND	0.90	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Benzo (k) fluoranthene	ND	0.50	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Bis(2-chloroethoxy)methane	ND	0.90	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Bis(2-chloroethyl)ether	ND	0.90	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Bis(2-chloroisopropyl)ether	ND	1.0	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Bis(2-ethylhexyl)phthalate	ND	3.0	5.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
4-Bromophenyl phenyl ether	ND	1.0	4.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Butyl benzyl phthalate	ND	0.60	5.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
4-Chloroaniline	ND	1.0	14	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2-Chloronaphthalene	ND	0.60	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2-Chlorophenol	ND	0.70	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
4-Chlorophenyl phenyl ether	ND	0.90	4.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Chrysene	ND	0.80	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Di-n-butyl phthalate	ND	0.90	10	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Di-n-octyl phthalate	ND	0.60	10	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Dibenz (a,h) anthracene	ND	0.80	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Dibenzofuran	ND	0.90	4.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
1,2-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
1,3-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
1,4-Dichlorobenzene	ND	0.60	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2,4-Dichlorophenol	ND	0.70	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Diethyl phthalate	ND	0.30	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Dimethyl phthalate	ND	0.80	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2,4-Dimethylphenol	ND	1.0	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
4,6-Dinitro-2-methylphenol	ND	3.0	4.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2,4-Dinitrophenol	ND	5.0	5.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2,4-Dinitrotoluene	ND	0.80	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2,6-Dinitrotoluene	ND	0.80	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Fluoranthene	ND	0.80	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Fluorene	ND	0.80	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U

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Sample Traps, LLC  
 262 Rickenbacker Circle  
 Livermore CA, 94551

Project Manager: Quality Control Manager  
 Project: QC- 950cc Widemouth Amber Packer  
 Project Number: Lot Number T9340CUFS

Reported:  
 02/18/20 13:53

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>T9340CUFS - 04 (20A1300-04) Water Sampled: 01/09/20 00:00 Received: 01/09/20 08:00</b>												
Hexachlorobenzene	ND	0.90	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Hexachlorobutadiene	ND	0.80	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Hexachlorocyclopentadiene	ND	4.0	4.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Hexachloroethane	ND	0.60	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Indeno (1,2,3-cd) pyrene	ND	0.60	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Isophorone	ND	0.30	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2-Methylnaphthalene	ND	1.0	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2-Methylphenol (o-cresol)	ND	0.60	5.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
3 & 4-Methylphenol (m,p-cresol)	ND	0.60	5.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
N-Nitrosodi-n-propylamine	ND	0.80	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
N-Nitrosodimethylamine	ND	0.30	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
N-Nitrosodiphenylamine	ND	1.0	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Naphthalene	ND	0.70	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2-Nitroaniline	ND	1.0	20	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
3-Nitroaniline	ND	5.0	50	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
4-Nitroaniline	ND	4.0	20	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2-Nitrophenol	ND	0.90	10	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
4-Nitrophenol	ND	3.0	5.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Nitrobenzene	ND	0.90	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Pentachlorophenol	ND	4.0	5.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Phenanthrene	ND	0.90	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Phenol	ND	0.50	1.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Pyrene	ND	0.40	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
1,2,4-Trichlorobenzene	ND	0.60	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2,4,5-Trichlorophenol	ND	0.60	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
2,4,6-Trichlorophenol	ND	0.70	2.0	ug/L	1	AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	U
Surrogate: 2-Fluorobiphenyl		67.8 %	27-119			AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	
Surrogate: 2-Fluorophenol		42.4 %	7-85			AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	
Surrogate: Nitrobenzene-d5		55.4 %	15-314			AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	
Surrogate: p-Terphenyl-d14		80.9 %	36-141			AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	
Surrogate: Phenol-d6		27.7 %	1-65			AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	
Surrogate: 2,4,6-Tribromophenol		90.6 %	4-168			AA03683	01/14/20 08:00	01/25/20 03:47	EPA 8270C/625	NBH	1551	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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**Benzidines by EPA Method 8270C**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>T9340CUFS - 04 (20A1300-04) Water</b> <b>Sampled: 01/09/20 00:00</b> <b>Received: 01/09/20 08:00</b>												
Benzidine	ND	3.0	5.0	ug/L	1	AA03684	01/14/20 08:00	01/23/20 05:22	EPA 8270C	NBH	1551	U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L	1	AA03684	01/14/20 08:00	01/23/20 05:22	EPA 8270C	NBH	1551	U
Surrogate: 2-Fluorobiphenyl		69.6 %	27-119			AA03684	01/14/20 08:00	01/23/20 05:22	EPA 8270C	NBH	1551	
Surrogate: Nitrobenzene-d5		73.8 %	15-314			AA03684	01/14/20 08:00	01/23/20 05:22	EPA 8270C	NBH	1551	
Surrogate: p-Terphenyl-d14		78.4 %	36-141			AA03684	01/14/20 08:00	01/23/20 05:22	EPA 8270C	NBH	1551	





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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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### Semivolatile Organic Compounds by EPA Method 8270C SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	ELAP#	Notes
<b>T9340CUFS - 05 (20A1300-05) Water</b> <b>Sampled: 01/09/20 00:00</b> <b>Received: 01/09/20 08:00</b>												
Acenaphthylene	ND	0.20	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Anthracene	ND	0.090	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Benzo (a) anthracene	ND	0.20	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Benzo (a) pyrene	ND	0.20	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Benzo (b) fluoranthene	ND	0.20	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Benzo (g,h,i) perylene	ND	0.10	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Benzo (k) fluoranthene	ND	0.20	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Chrysene	ND	0.20	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Dibenz (a,h) anthracene	ND	0.10	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Fluorene	ND	0.20	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Indeno (1,2,3-cd) pyrene	ND	0.030	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Phenanthrene	ND	0.10	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Pyrene	ND	0.20	0.20	ug/L	1	AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	U
Surrogate: 2-Fluorobiphenyl		50.9 %	24-119			AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	
Surrogate: Nitrobenzene-d5		69.9 %	15-314			AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	
Surrogate: p-Terphenyl-d14		95.1 %	37-139			AA04692	01/14/20 08:00	01/28/20 20:57	EPA 8270SIM	NBH	1551	



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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**Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA04809 - SVOAs in Water GC**

**Blank (AA04809-BLK1)**

Prepared: 01/29/20 Analyzed: 01/31/20

Aldrin	ND	0.0090	0.010	ug/L							U
alpha-BHC	ND	0.0080	0.010	ug/L							U
beta-BHC	ND	0.020	0.050	ug/L							U
delta-BHC	ND	0.020	0.050	ug/L							U
gamma-BHC (Lindane)	ND	0.0080	0.010	ug/L							U
Chlordane (tech)	ND	0.20	0.50	ug/L							U
4,4'-DDD	ND	0.020	0.020	ug/L							U
4,4'-DDE	ND	0.020	0.020	ug/L							U
4,4'-DDT	ND	0.020	0.020	ug/L							U
Dieldrin	ND	0.0070	0.010	ug/L							U
Endosulfan I	ND	0.0090	0.010	ug/L							U
Endosulfan II	ND	0.020	0.020	ug/L							U
Endosulfan sulfate	ND	0.020	0.050	ug/L							U
Endrin	ND	0.0090	0.010	ug/L							U
Endrin aldehyde	ND	0.020	0.050	ug/L							U
Heptachlor	ND	0.010	0.020	ug/L							U
Heptachlor epoxide	ND	0.020	0.020	ug/L							U
Methoxychlor	ND	0.020	0.020	ug/L							U
Toxaphene	ND	0.10	0.50	ug/L							U
PCB-1016	ND	0.080	0.50	ug/L							U
PCB-1221	ND	0.20	0.50	ug/L							U
PCB-1232	ND	0.10	0.50	ug/L							U
PCB-1242	ND	0.040	0.50	ug/L							U
PCB-1248	ND	0.060	0.50	ug/L							U
PCB-1254	ND	0.040	0.50	ug/L							U
PCB-1260	ND	0.040	0.50	ug/L							U
Surrogate: Dibutylchlorodate	0.443			ug/L	0.452		98.1	63-124			



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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**Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA04809 - SVOAs in Water GC**

**LCS (AA04809-BS1)**

Prepared: 01/29/20 Analyzed: 01/31/20

Aldrin	0.159	0.0090	0.010	ug/L	0.240		66.2	43-120			
alpha-BHC	0.191	0.0080	0.010	ug/L	0.240		79.7	71-122			
beta-BHC	0.201	0.020	0.050	ug/L	0.240		83.7	65-123			
delta-BHC	0.203	0.020	0.050	ug/L	0.240		84.7	78-129			
gamma-BHC (Lindane)	0.194	0.0080	0.010	ug/L	0.240		81.0	59-122			
4,4'-DDE	0.195	0.020	0.020	ug/L	0.240		81.3	78-132			
4,4'-DDD	0.196	0.020	0.020	ug/L	0.240		81.7	79-132			
4,4'-DDT	0.193	0.020	0.020	ug/L	0.240		80.2	79-143			
Dieldrin	0.201	0.0070	0.010	ug/L	0.240		83.6	80-124			
Endosulfan I	0.203	0.0090	0.010	ug/L	0.240		84.5	71-126			
Endosulfan II	0.227	0.020	0.020	ug/L	0.240		94.5	80-125			
Endosulfan sulfate	0.209	0.020	0.050	ug/L	0.240		87.3	80-126			
Endrin	0.222	0.0090	0.010	ug/L	0.240		92.6	59-176			
Endrin aldehyde	0.218	0.020	0.050	ug/L	0.240		90.6	46-129			
Heptachlor	0.179	0.010	0.020	ug/L	0.240		74.7	67-120			
Heptachlor epoxide	0.200	0.020	0.020	ug/L	0.240		83.4	71-127			
Methoxychlor	0.190	0.020	0.020	ug/L	0.240		79.3	72-163			
Surrogate: Dibutylchloroendate	0.362			ug/L	0.452		80.2	63-124			

**LCS Dup (AA04809-BS1)**

Prepared: 01/29/20 Analyzed: 01/31/20

**QL-04**

Aldrin	0.224	0.0090	0.010	ug/L	0.240		93.5	43-120	34.2	20	
alpha-BHC	0.246	0.0080	0.010	ug/L	0.240		102	71-122	24.9	20	
beta-BHC	0.264	0.020	0.050	ug/L	0.240		110	65-123	27.2	20	
delta-BHC	0.270	0.020	0.050	ug/L	0.240		112	78-129	28.2	20	
gamma-BHC (Lindane)	0.253	0.0080	0.010	ug/L	0.240		105	59-122	26.1	20	
4,4'-DDE	0.261	0.020	0.020	ug/L	0.240		109	78-132	29.0	20	
4,4'-DDD	0.264	0.020	0.020	ug/L	0.240		110	79-132	29.5	20	
4,4'-DDT	0.262	0.020	0.020	ug/L	0.240		109	79-143	30.5	20	
Dieldrin	0.268	0.0070	0.010	ug/L	0.240		112	80-124	28.7	20	
Endosulfan I	0.270	0.0090	0.010	ug/L	0.240		113	71-126	28.5	20	
Endosulfan II	0.293	0.020	0.020	ug/L	0.240		122	80-125	25.4	20	
Endosulfan sulfate	0.253	0.020	0.050	ug/L	0.240		105	80-126	18.8	20	
Endrin	0.290	0.0090	0.010	ug/L	0.240		121	59-176	26.5	20	
Endrin aldehyde	0.287	0.020	0.050	ug/L	0.240		119	46-129	27.4	30	
Heptachlor	0.240	0.010	0.020	ug/L	0.240		100	67-120	28.9	20	
Heptachlor epoxide	0.268	0.020	0.020	ug/L	0.240		111	71-127	28.8	20	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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**Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA04809 - SVOAs in Water GC**

<b>LCS Dup (AA04809-BSD1)</b>		Prepared: 01/29/20 Analyzed: 01/31/20							<b>QL-04</b>	
Methoxychlor	0.257	0.020	0.020	ug/L	0.240	107	72-163	29.8	20	
Surrogate: Dibutylchloroendate	0.928			ug/L	0.904	103	63-124			

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**Chlorinated Herbicides by EPA Method 8151A - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AA04807 - Herbicides**

<b>Blank (AA04807-BLK1)</b>		Prepared: 01/29/20 Analyzed: 02/04/20									
2,4-D	ND	0.80	0.80	ug/L							U
2,4-DB	ND	0.80	3.2	ug/L							U
2,4,5-T	ND	0.072	0.40	ug/L							U
2,4,5-TP (Silvex)	ND	0.16	0.40	ug/L							U
Dalapon	ND	1.6	4.8	ug/L							U
Dicamba	ND	0.080	0.32	ug/L							U
Dinoseb	ND	0.16	0.80	ug/L							U
Dichlorprop	ND	0.32	0.80	ug/L							U
Pentachlorophenol	ND	0.072	0.16	ug/L							U
Surrogate: DCAA	18.6			ug/L	20.8		89.6	62-124			

<b>Matrix Spike (AA04807-MS1)</b>		<b>Source: 20A2810-01</b>		Prepared: 01/29/20 Analyzed: 02/05/20								
2,4-D	7.25	0.80	0.80	ug/L	9.60	ND	75.5	70-130				
2,4-DB	9.72	0.80	3.2	ug/L	12.8	ND	75.9	70-130				
2,4,5-T	1.18	0.072	0.40	ug/L	1.60	ND	74.0	70-130				
2,4,5-TP (Silvex)	1.37	0.16	0.40	ug/L	1.60	ND	85.3	70-130				
Dalapon	17.7	1.6	4.8	ug/L	20.8	ND	84.9	70-130				
Dicamba	1.15	0.080	0.32	ug/L	1.60	ND	72.1	70-130				
Dinoseb	2.41	0.16	0.80	ug/L	3.20	ND	75.4	70-130				
Dichlorprop	3.60	0.32	0.80	ug/L	4.80	ND	75.0	70-130				
Pentachlorophenol	0.912	0.072	0.16	ug/L	1.20	ND	76.0	70-130				
Surrogate: DCAA	14.8			ug/L	20.8		71.2	62-124				

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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 AA04745 - SVOAs in Water GC**

**Blank (AA04745-BLK1)**

Prepared: 01/28/20 Analyzed: 02/12/20

Azinphos ethyl	ND	1.0	2.0	ug/L							U
Azinphos methyl	ND	0.40	2.0	ug/L							U
Bolstar	ND	0.30	1.0	ug/L							U
Chlorpyrifos	ND	0.70	1.0	ug/L							U
Coumaphos	ND	0.80	2.0	ug/L							U
Demeton-o	ND	0.20	1.0	ug/L							U
Demeton-s	ND	0.30	1.0	ug/L							U
Diazinon	ND	0.30	0.50	ug/L							U
Dichlorvos	ND	0.40	1.0	ug/L							U
Dimethoate	ND	1.0	2.0	ug/L							U
Disulfoton	ND	0.30	0.50	ug/L							U
EPN	ND	0.50	1.0	ug/L							U
Ethion	ND	0.80	1.0	ug/L							U
Ethoprop (Ethoprophos)	ND	0.40	1.0	ug/L							U
Fensulfothion	ND	0.80	2.0	ug/L							U
Fenthion	ND	0.50	0.50	ug/L							U
Malathion	ND	0.80	1.0	ug/L							U
Mevinphos	ND	0.80	1.0	ug/L							U
Parathion	ND	0.90	2.0	ug/L							U
Parathion-methyl	ND	0.40	0.50	ug/L							U
Phorate	ND	0.40	0.50	ug/L							U
Ronnel	ND	0.30	0.50	ug/L							U
Stirofos	ND	0.30	0.50	ug/L							U
Thionazin	ND	1.0	2.0	ug/L							U
Tokuthion (Prothiofos)	ND	0.40	1.0	ug/L							U
Trichloronate	ND	0.40	1.0	ug/L							U
Surrogate: Tributyl phosphate	1.44			ug/L	2.00		72.0	37-115			
Surrogate: Triphenyl phosphate	1.73			ug/L	2.00		86.3	44-145			



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA04745 - SVOAs in Water GC**

**LCS (AA04745-BS1)**

Prepared: 01/28/20 Analyzed: 02/12/20

Azinphos ethyl	2.55	1.0	2.0	ug/L	2.00		127	44-154			
Azinphos methyl	2.00	0.40	2.0	ug/L	2.00		99.9	42-147			
Bolstar	1.92	0.30	1.0	ug/L	2.00		96.0	35-144			
Chlorpyrifos	2.08	0.70	1.0	ug/L	2.00		104	50-134			
Coumaphos	1.94	0.80	2.0	ug/L	2.00		97.0	47-152			J
Demeton-o	0.498	0.20	1.0	ug/L	0.440		113	18-128			J
Demeton-s	1.08	0.30	1.0	ug/L	1.50		72.1	43-125			
Diazinon	1.77	0.30	0.50	ug/L	2.00		88.6	50-121			
Dichlorvos	2.34	0.40	1.0	ug/L	2.00		117	77-143			
Dimethoate	2.01	1.0	2.0	ug/L	2.00		100	37-133			
Disulfoton	1.91	0.30	0.50	ug/L	2.00		95.5	50-119			
EPN	2.08	0.50	1.0	ug/L	2.00		104	55-140			
Ethion	2.01	0.80	1.0	ug/L	2.00		101	38-137			
Ethoprop (Ethoprophos)	1.95	0.40	1.0	ug/L	2.00		97.5	67-130			
Fensulfothion	2.10	0.80	2.0	ug/L	2.00		105	35-157			
Fenthion	1.91	0.50	0.50	ug/L	2.00		95.3	56-125			
Malathion	2.07	0.80	1.0	ug/L	2.00		103	39-127			
Mevinphos	2.00	0.80	1.0	ug/L	2.00		100	58-125			
Parathion	2.18	0.90	2.0	ug/L	2.00		109	33-137			
Parathion-methyl	2.43	0.40	0.50	ug/L	2.00		121	52-134			
Phorate	1.85	0.40	0.50	ug/L	2.00		92.6	58-119			
Ronnel	1.92	0.30	0.50	ug/L	2.00		95.9	41-135			
Stirofos	1.95	0.30	0.50	ug/L	2.00		97.5	34-151			
Thionazin	1.96	1.0	2.0	ug/L	2.00		98.0	60-118			J
Tokuthion (Prothiofos)	2.06	0.40	1.0	ug/L	2.00		103	41-136			
Trichloronate	2.10	0.40	1.0	ug/L	2.00		105	36-146			
Surrogate: Tributyl phosphate	1.94			ug/L	2.00		97.2	37-115			
Surrogate: Triphenyl phosphate	2.04			ug/L	2.00		102	44-145			



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA04745 - SVOAs in Water GC**

**LCS Dup (AA04745-BSD1)**

Prepared: 01/28/20 Analyzed: 02/12/20

Azinphos ethyl	2.33	1.0	2.0	ug/L	2.00	116	44-154	9.00	30	
Azinphos methyl	1.94	0.40	2.0	ug/L	2.00	97.2	42-147	2.82	30	J
Bolstar	1.82	0.30	1.0	ug/L	2.00	90.8	35-144	5.55	30	
Chlorpyrifos	1.96	0.70	1.0	ug/L	2.00	97.9	50-134	6.02	30	
Coumaphos	1.93	0.80	2.0	ug/L	2.00	96.6	47-152	0.401	30	J
Demeton-o	0.440	0.20	1.0	ug/L	0.440	99.9	18-128	12.4	30	J
Demeton-s	1.06	0.30	1.0	ug/L	1.50	70.7	43-125	2.03	30	
Diazinon	1.72	0.30	0.50	ug/L	2.00	85.9	50-121	3.12	30	
Dichlorvos	2.09	0.40	1.0	ug/L	2.00	104	77-143	11.4	30	
Dimethoate	1.97	1.0	2.0	ug/L	2.00	98.4	37-133	1.84	30	J
Disulfoton	1.78	0.30	0.50	ug/L	2.00	88.9	50-119	7.11	30	
EPN	2.02	0.50	1.0	ug/L	2.00	101	55-140	2.49	30	
Ethion	1.83	0.80	1.0	ug/L	2.00	91.6	38-137	9.48	30	
Ethoprop (Ethoprophos)	1.84	0.40	1.0	ug/L	2.00	91.9	67-130	5.90	30	
Fensulfothion	2.07	0.80	2.0	ug/L	2.00	103	35-157	1.69	30	
Fenthion	1.84	0.50	0.50	ug/L	2.00	91.8	56-125	3.83	30	
Malathion	1.90	0.80	1.0	ug/L	2.00	95.2	39-127	8.21	30	
Mevinphos	1.72	0.80	1.0	ug/L	2.00	85.9	58-125	15.3	30	
Parathion	2.18	0.90	2.0	ug/L	2.00	109	33-137	0.389	30	
Parathion-methyl	2.25	0.40	0.50	ug/L	2.00	113	52-134	7.37	30	
Phorate	1.74	0.40	0.50	ug/L	2.00	87.2	58-119	5.95	30	
Ronnel	1.91	0.30	0.50	ug/L	2.00	95.5	41-135	0.352	30	
Stirofos	1.87	0.30	0.50	ug/L	2.00	93.5	34-151	4.23	30	
Thionazin	1.82	1.0	2.0	ug/L	2.00	91.2	60-118	7.13	30	J
Tokuthion (Prothiofos)	1.98	0.40	1.0	ug/L	2.00	98.9	41-136	4.01	30	
Trichloronate	2.01	0.40	1.0	ug/L	2.00	101	36-146	4.11	30	
Surrogate: Tributyl phosphate	1.85			ug/L	2.00	92.7	37-115			
Surrogate: Triphenyl phosphate	1.92			ug/L	2.00	95.8	44-145			





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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA03683 - SVOAs in Water GCMS**

**Blank (AA03683-BLK1)**

Prepared: 01/14/20 Analyzed: 01/24/20

Acenaphthene	ND	0.60	1.0	ug/L							U
Acenaphthylene	ND	0.50	2.0	ug/L							U
Anthracene	ND	0.40	2.0	ug/L							U
Benzo (a) anthracene	ND	0.40	2.0	ug/L							U
Benzo (a) pyrene	ND	0.50	2.0	ug/L							U
Benzo (b) fluoranthene	ND	0.60	2.0	ug/L							U
Benzo (g,h,i) perylene	ND	0.90	2.0	ug/L							U
Benzo (k) fluoranthene	ND	0.50	2.0	ug/L							U
Bis(2-chloroethoxy)methane	ND	0.90	2.0	ug/L							U
Bis(2-chloroethyl)ether	ND	0.90	1.0	ug/L							U
Bis(2-chloroisopropyl)ether	ND	1.0	1.0	ug/L							U
Bis(2-ethylhexyl)phthalate	ND	3.0	5.0	ug/L							U
4-Bromophenyl phenyl ether	ND	1.0	4.0	ug/L							U
Butyl benzyl phthalate	ND	0.60	5.0	ug/L							U
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L							U
4-Chloroaniline	ND	1.0	14	ug/L							U
2-Chloronaphthalene	ND	0.60	2.0	ug/L							U
2-Chlorophenol	ND	0.70	2.0	ug/L							U
4-Chlorophenyl phenyl ether	ND	0.90	4.0	ug/L							U
Chrysene	ND	0.80	2.0	ug/L							U
Di-n-butyl phthalate	ND	0.90	10	ug/L							U
Di-n-octyl phthalate	ND	0.60	10	ug/L							U
Dibenz (a,h) anthracene	ND	0.80	2.0	ug/L							U
Dibenzofuran	ND	0.90	4.0	ug/L							U
1,2-Dichlorobenzene	ND	0.60	1.0	ug/L							U
1,3-Dichlorobenzene	ND	0.60	1.0	ug/L							U
1,4-Dichlorobenzene	ND	0.60	1.0	ug/L							U
2,4-Dichlorophenol	ND	0.70	2.0	ug/L							U
Diethyl phthalate	ND	0.30	2.0	ug/L							U
Dimethyl phthalate	ND	0.80	2.0	ug/L							U
2,4-Dimethylphenol	ND	1.0	2.0	ug/L							U
4,6-Dinitro-2-methylphenol	ND	3.0	4.0	ug/L							U
2,4-Dinitrophenol	ND	5.0	5.0	ug/L							U
2,4-Dinitrotoluene	ND	0.80	2.0	ug/L							U
2,6-Dinitrotoluene	ND	0.80	2.0	ug/L							U
Fluoranthene	ND	0.80	1.0	ug/L							U

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA03683 - SVOAs in Water GCMS**

**Blank (AA03683-BLK1)**

Prepared: 01/14/20 Analyzed: 01/24/20

Fluorene	ND	0.80	2.0	ug/L							U
Hexachlorobenzene	ND	0.90	1.0	ug/L							U
Hexachlorobutadiene	ND	0.80	1.0	ug/L							U
Hexachlorocyclopentadiene	ND	4.0	4.0	ug/L							U
Hexachloroethane	ND	0.60	1.0	ug/L							U
Indeno (1,2,3-cd) pyrene	ND	0.60	2.0	ug/L							U
Isophorone	ND	0.30	1.0	ug/L							U
2-Methylnaphthalene	ND	1.0	2.0	ug/L							U
2-Methylphenol (o-cresol)	ND	0.60	5.0	ug/L							U
3 & 4-Methylphenol (m,p-cresol)	ND	0.60	5.0	ug/L							U
N-Nitrosodi-n-propylamine	ND	0.80	2.0	ug/L							U
N-Nitrosodimethylamine	ND	0.30	2.0	ug/L							U
N-Nitrosodiphenylamine	ND	1.0	1.0	ug/L							U
Naphthalene	ND	0.70	1.0	ug/L							U
2-Nitroaniline	ND	1.0	20	ug/L							U
3-Nitroaniline	ND	5.0	50	ug/L							U
4-Nitroaniline	ND	4.0	20	ug/L							U
2-Nitrophenol	ND	0.90	10	ug/L							U
4-Nitrophenol	ND	3.0	5.0	ug/L							U
Nitrobenzene	ND	0.90	1.0	ug/L							U
Pentachlorophenol	ND	4.0	5.0	ug/L							U
Phenanthrene	ND	0.90	2.0	ug/L							U
Phenol	ND	0.50	1.0	ug/L							U
Pyrene	ND	0.40	2.0	ug/L							U
1,2,4-Trichlorobenzene	ND	0.60	2.0	ug/L							U
2,4,5-Trichlorophenol	ND	0.60	2.0	ug/L							U
2,4,6-Trichlorophenol	ND	0.70	2.0	ug/L							U
Surrogate: 2-Fluorobiphenyl	22.8			ug/L	40.0		57.0	27-119			
Surrogate: 2-Fluorophenol	13.3			ug/L	40.0		33.2	7-85			
Surrogate: Nitrobenzene-d5	17.6			ug/L	40.0		44.0	15-314			
Surrogate: p-Terphenyl-d14	26.2			ug/L	40.0		65.5	36-141			
Surrogate: Phenol-d6	3.70			ug/L	40.0		9.25	1-65			
Surrogate: 2,4,6-Tribromophenol	27.2			ug/L	40.0		68.0	4-168			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA03683 - SVOAs in Water GCMS**

**LCS (AA03683-BS1)**

Prepared: 01/14/20 Analyzed: 01/24/20

Acenaphthene	24	0.60	1.0	ug/L	40.0	60.0	60-132
Acenaphthylene	25	0.50	2.0	ug/L	40.0	61.3	54-126
Anthracene	28	0.40	2.0	ug/L	40.0	69.7	43-120
Benzo (a) anthracene	30	0.40	2.0	ug/L	40.0	74.8	42-133
Benzo (a) pyrene	28	0.50	2.0	ug/L	40.0	69.7	32-148
Benzo (b) fluoranthene	29	0.60	2.0	ug/L	40.0	73.4	42-140
Benzo (g,h,i) perylene	28	0.90	2.0	ug/L	40.0	71.0	2-195
Benzo (k) fluoranthene	29	0.50	2.0	ug/L	40.0	72.6	25-146
Bis(2-chloroethoxy)methane	22	0.90	2.0	ug/L	40.0	55.6	49-165
Bis(2-chloroethyl)ether	20	0.90	1.0	ug/L	40.0	51.0	43-126
Bis(2-chloroisopropyl)ether	39	1.0	1.0	ug/L	40.0	97.0	63-139
Bis(2-ethylhexyl)phthalate	33	3.0	5.0	ug/L	40.0	82.4	29-137
4-Bromophenyl phenyl ether	28	1.0	4.0	ug/L	40.0	70.1	65-120
Butyl benzyl phthalate	16	0.60	5.0	ug/L	40.0	40.1	2-140
4-Chloro-3-methylphenol	22	1.0	1.0	ug/L	40.0	53.8	41-128
4-Chloroaniline	30	1.0	14	ug/L	60.0	49.2	38-114
2-Chloronaphthalene	41	0.60	2.0	ug/L	40.0	102	65-120
2-Chlorophenol	23	0.70	2.0	ug/L	40.0	58.1	36-120
4-Chlorophenyl phenyl ether	27	0.90	4.0	ug/L	40.0	66.9	38-145
Chrysene	29	0.80	2.0	ug/L	40.0	72.6	44-140
Di-n-butyl phthalate	25	0.90	10	ug/L	40.0	61.4	8-120
Di-n-octyl phthalate	14	0.60	10	ug/L	40.0	34.7	19-132
Dibenz (a,h) anthracene	28	0.80	2.0	ug/L	40.0	70.1	2-200
Dibenzofuran	25	0.90	4.0	ug/L	40.0	62.8	57-107
1,2-Dichlorobenzene	19	0.60	1.0	ug/L	40.0	48.4	33-93
1,3-Dichlorobenzene	19	0.60	1.0	ug/L	40.0	47.5	31-92
1,4-Dichlorobenzene	19	0.60	1.0	ug/L	40.0	46.6	32-91
2,4-Dichlorophenol	34	0.70	2.0	ug/L	40.0	85.1	53-122
Diethyl phthalate	17	0.30	2.0	ug/L	40.0	43.6	2-120
Dimethyl phthalate	7.0	0.80	2.0	ug/L	40.0	17.4	2-120
2,4-Dimethylphenol	27	1.0	2.0	ug/L	50.0	53.9	42-120
4,6-Dinitro-2-methylphenol	22	3.0	4.0	ug/L	40.0	56.1	53-130
2,4-Dinitrophenol	8.3	5.0	5.0	ug/L	40.0	20.8	10-173
2,4-Dinitrotoluene	24	0.80	2.0	ug/L	40.0	59.8	48-127
2,6-Dinitrotoluene	38	0.80	2.0	ug/L	40.0	96.2	68-137
Fluoranthene	29	0.80	1.0	ug/L	40.0	73.4	43-121

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA03683 - SVOAs in Water GCMS**

**LCS (AA03683-BS1)**

Prepared: 01/14/20 Analyzed: 01/24/20

Fluorene	31	0.80	2.0	ug/L	40.0		77.5	70-120			
Hexachlorobenzene	26	0.90	1.0	ug/L	40.0		64.4	8-142			
Hexachlorobutadiene	19	0.80	1.0	ug/L	40.0		47.6	38-120			
Hexachlorocyclopentadiene	18	4.0	4.0	ug/L	40.0		44.8	16-93			
Hexachloroethane	31	0.60	1.0	ug/L	40.0		78.4	55-120			
Indeno (1,2,3-cd) pyrene	28	0.60	2.0	ug/L	40.0		69.0	2-151			
Isophorone	24	0.30	1.0	ug/L	40.0		58.9	47-180			
2-Methylnaphthalene	21	1.0	2.0	ug/L	40.0		53.7	45-106			
2-Methylphenol (o-cresol)	17	0.60	5.0	ug/L	40.0		41.5	36-102			
3 & 4-Methylphenol (m,p-cresol)	23	0.60	5.0	ug/L	40.0		58.0	38-93			
N-Nitrosodi-n-propylamine	24	0.80	2.0	ug/L	40.0		58.8	14-198			
N-Nitrosodimethylamine	11	0.30	2.0	ug/L	40.0		27.2	19-81			
N-Nitrosodiphenylamine	25	1.0	1.0	ug/L	40.0		61.8	54-111			
Naphthalene	20	0.70	1.0	ug/L	40.0		50.5	36-120			
2-Nitroaniline	37	1.0	20	ug/L	60.0		61.0	53-128			
3-Nitroaniline	38	5.0	50	ug/L	60.0		63.0	50-137			J
4-Nitroaniline	39	4.0	20	ug/L	60.0		64.6	25-191			
2-Nitrophenol	31	0.90	10	ug/L	40.0		77.3	45-167			
4-Nitrophenol	5.9	3.0	5.0	ug/L	40.0		14.8	13-129			
Nitrobenzene	30	0.90	1.0	ug/L	40.0		74.4	54-158			
Pentachlorophenol	15	4.0	5.0	ug/L	40.0		38.7	38-152			
Phenanthrene	28	0.90	2.0	ug/L	40.0		69.0	65-120			
Phenol	8.2	0.50	1.0	ug/L	40.0		20.4	17-120			
Pyrene	30	0.40	2.0	ug/L	40.0		74.4	70-120			
1,2,4-Trichlorobenzene	28	0.60	2.0	ug/L	40.0		69.5	57-130			
2,4,5-Trichlorophenol	29	0.60	2.0	ug/L	40.0		72.3	44-141			
2,4,6-Trichlorophenol	31	0.70	2.0	ug/L	40.0		78.3	52-129			
Surrogate: 2-Fluorobiphenyl	21.8			ug/L	40.0		54.5	27-119			
Surrogate: 2-Fluorophenol	6.93			ug/L	40.0		17.3	7-85			
Surrogate: Nitrobenzene-d5	18.2			ug/L	40.0		45.6	15-314			
Surrogate: p-Terphenyl-d14	26.0			ug/L	40.0		64.9	36-141			
Surrogate: Phenol-d6	6.30			ug/L	40.0		15.8	1-65			
Surrogate: 2,4,6-Tribromophenol	15.0			ug/L	40.0		37.4	4-168			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA03683 - SVOAs in Water GCMS**

Matrix Spike (AA03683-MS1)	Source: 20A1094-01			Prepared: 01/14/20 Analyzed: 01/24/20							
Acenaphthene	29	0.60	1.0	ug/L	40.0	ND	72.9	47-145			
Acenaphthylene	29	0.50	2.0	ug/L	40.0	ND	73.2	33-145			
Anthracene	30	0.40	2.0	ug/L	40.0	ND	76.2	27-133			
Benzo (a) anthracene	22	0.40	2.0	ug/L	40.0	ND	55.3	33-143			
Benzo (a) pyrene	15	0.50	2.0	ug/L	40.0	ND	37.4	17-163			
Benzo (b) fluoranthene	16	0.60	2.0	ug/L	40.0	ND	39.8	24-159			
Benzo (g,h,i) perylene	15	0.90	2.0	ug/L	40.0	ND	37.3	2-219			
Benzo (k) fluoranthene	16	0.50	2.0	ug/L	40.0	ND	39.6	11-162			
Bis(2-chloroethoxy)methane	30	0.90	2.0	ug/L	40.0	ND	73.8	33-184			
Bis(2-chloroethyl)ether	25	0.90	1.0	ug/L	40.0	ND	62.8	12-158			
Bis(2-chloroisopropyl)ether	26	1.0	1.0	ug/L	40.0	ND	65.3	36-166			
Bis(2-ethylhexyl)phthalate	14	3.0	5.0	ug/L	40.0	ND	34.4	8-158			
4-Bromophenyl phenyl ether	33	1.0	4.0	ug/L	40.0	ND	83.4	53-127			
Butyl benzyl phthalate	13	0.60	5.0	ug/L	40.0	ND	31.4	2-152			
4-Chloro-3-methylphenol	25	1.0	1.0	ug/L	40.0	ND	61.8	22-147			
4-Chloroaniline	9.4	1.0	14	ug/L	60.0	ND	15.7	9-1114			J
2-Chloronaphthalene	30	0.60	2.0	ug/L	40.0	ND	73.8	60-120			
2-Chlorophenol	20	0.70	2.0	ug/L	40.0	ND	50.7	23-134			
4-Chlorophenyl phenyl ether	29	0.90	4.0	ug/L	40.0	ND	71.4	25-158			
Chrysene	21	0.80	2.0	ug/L	40.0	ND	53.7	17-168			
Di-n-butyl phthalate	25	0.90	10	ug/L	40.0	ND	61.3	1-120			
Di-n-octyl phthalate	9.4	0.60	10	ug/L	40.0	ND	23.6	4-146			J
Dibenz (a,h) anthracene	14	0.80	2.0	ug/L	40.0	ND	35.0	2-227			
Dibenzofuran	29	0.90	4.0	ug/L	40.0	ND	72.4	57-107			
1,2-Dichlorobenzene	25	0.60	1.0	ug/L	40.0	ND	62.0	7-104			
1,3-Dichlorobenzene	25	0.60	1.0	ug/L	40.0	ND	62.2	1-106			
1,4-Dichlorobenzene	24	0.60	1.0	ug/L	40.0	ND	60.8	3-105			
2,4-Dichlorophenol	24	0.70	2.0	ug/L	40.0	ND	59.7	39-135			
Diethyl phthalate	14	0.30	2.0	ug/L	40.0	ND	35.7	2-120			
Dimethyl phthalate	6.1	0.80	2.0	ug/L	40.0	ND	15.2	2-120			
2,4-Dimethylphenol	8.8	1.0	2.0	ug/L	50.0	ND	17.6	32-120			QM-05
4,6-Dinitro-2-methylphenol	14	3.0	4.0	ug/L	40.0	ND	34.4	7-181			
2,4-Dinitrophenol	6.8	5.0	5.0	ug/L	40.0	ND	17.0	10-191			
2,4-Dinitrotoluene	24	0.80	2.0	ug/L	40.0	ND	60.7	39-139			
2,6-Dinitrotoluene	31	0.80	2.0	ug/L	40.0	ND	78.1	50-158			
Fluoranthene	31	0.80	1.0	ug/L	40.0	ND	77.1	26-137			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA03683 - SVOAs in Water GCMS**

Matrix Spike (AA03683-MS1)	Source: 20A1094-01	Prepared: 01/14/20	Analyzed: 01/24/20				
Fluorene	30	0.80	2.0 ug/L	40.0	ND	73.8	59-121
Hexachlorobenzene	28	0.90	1.0 ug/L	40.0	ND	69.5	2-152
Hexachlorobutadiene	26	0.80	1.0 ug/L	40.0	ND	64.0	24-120
Hexachlorocyclopentadiene	21	4.0	4.0 ug/L	40.0	ND	52.0	10-93
Hexachloroethane	24	0.60	1.0 ug/L	40.0	ND	59.8	40-120
Indeno (1,2,3-cd) pyrene	14	0.60	2.0 ug/L	40.0	ND	35.3	2-171
Isophorone	32	0.30	1.0 ug/L	40.0	ND	80.1	21-196
2-Methylnaphthalene	29	1.0	2.0 ug/L	40.0	ND	73.2	44-106
2-Methylphenol (o-cresol)	18	0.60	5.0 ug/L	40.0	ND	46.2	9-124
3 & 4-Methylphenol (m,p-cresol)	20	0.60	5.0 ug/L	40.0	ND	49.0	12-99
N-Nitrosodi-n-propylamine	27	0.80	2.0 ug/L	40.0	ND	67.3	2-230
N-Nitrosodimethylamine	18	0.30	2.0 ug/L	40.0	ND	43.9	10-84
N-Nitrosodiphenylamine	31	1.0	1.0 ug/L	40.0	ND	76.7	40-115
Naphthalene	26	0.70	1.0 ug/L	40.0	ND	65.4	21-133
2-Nitroaniline	48	1.0	20 ug/L	60.0	ND	80.0	48-128
3-Nitroaniline	38	5.0	50 ug/L	60.0	ND	62.8	17-137
4-Nitroaniline	40	4.0	20 ug/L	60.0	ND	66.1	13-191
2-Nitrophenol	22	0.90	10 ug/L	40.0	ND	54.4	29-182
4-Nitrophenol	6.5	3.0	5.0 ug/L	40.0	ND	16.3	7-132
Nitrobenzene	31	0.90	1.0 ug/L	40.0	ND	78.1	35-180
Pentachlorophenol	15	4.0	5.0 ug/L	40.0	ND	36.4	14-176
Phenanthrene	32	0.90	2.0 ug/L	40.0	ND	80.9	54-120
Phenol	12	0.50	1.0 ug/L	40.0	ND	30.1	5-120
Pyrene	30	0.40	2.0 ug/L	40.0	ND	74.2	52-120
1,2,4-Trichlorobenzene	29	0.60	2.0 ug/L	40.0	ND	71.4	44-142
2,4,5-Trichlorophenol	26	0.60	2.0 ug/L	40.0	ND	63.8	65-125
2,4,6-Trichlorophenol	23	0.70	2.0 ug/L	40.0	ND	58.6	37-144
Surrogate: 2-Fluorobiphenyl	26.4		ug/L	40.0		66.1	27-119
Surrogate: 2-Fluorophenol	12.9		ug/L	40.0		32.3	7-85
Surrogate: Nitrobenzene-d5	26.3		ug/L	40.0		65.8	15-314
Surrogate: p-Terphenyl-d14	16.5		ug/L	40.0		41.2	36-141
Surrogate: Phenol-d6	9.78		ug/L	40.0		24.4	1-65
Surrogate: 2,4,6-Tribromophenol	24.0		ug/L	40.0		60.0	4-168

J

QM-05

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA03683 - SVOAs in Water GCMS**

Matrix Spike Dup (AA03683-MSD1)	Source: 20A1094-01			Prepared: 01/14/20		Analyzed: 01/24/20					
Acenaphthene	26	0.60	1.0	ug/L	40.0	ND	64.7	47-145	11.9	48	
Acenaphthylene	26	0.50	2.0	ug/L	40.0	ND	64.7	33-145	12.3	74	
Anthracene	29	0.40	2.0	ug/L	40.0	ND	73.4	27-133	3.78	66	
Benzo (a) anthracene	22	0.40	2.0	ug/L	40.0	ND	55.0	33-143	0.544	53	
Benzo (a) pyrene	15	0.50	2.0	ug/L	40.0	ND	37.5	17-163	0.200	72	
Benzo (b) fluoranthene	17	0.60	2.0	ug/L	40.0	ND	41.8	24-159	4.72	71	
Benzo (g,h,i) perylene	13	0.90	2.0	ug/L	40.0	ND	31.7	2-219	16.2	97	
Benzo (k) fluoranthene	15	0.50	2.0	ug/L	40.0	ND	37.4	11-162	5.72	63	
Bis(2-chloroethoxy)methane	20	0.90	2.0	ug/L	40.0	ND	50.2	33-184	38.1	54	
Bis(2-chloroethyl)ether	12	0.90	1.0	ug/L	40.0	ND	29.9	12-158	70.9	108	
Bis(2-chloroisopropyl)ether	13	1.0	1.0	ug/L	40.0	ND	32.2	36-166	67.9	76	QM-05
Bis(2-ethylhexyl)phthalate	14	3.0	5.0	ug/L	40.0	ND	34.1	8-158	0.877	82	
4-Bromophenyl phenyl ether	31	1.0	4.0	ug/L	40.0	ND	78.2	53-127	6.50	43	
Butyl benzyl phthalate	8.0	0.60	5.0	ug/L	40.0	ND	20.0	2-152	44.7	60	
4-Chloro-3-methylphenol	27	1.0	1.0	ug/L	40.0	ND	67.2	22-147	8.33	73	
4-Chloroaniline	10	1.0	14	ug/L	60.0	ND	17.0	9-1114	8.25	25	J
2-Chloronaphthalene	26	0.60	2.0	ug/L	40.0	ND	64.8	60-120	12.9	24	
2-Chlorophenol	17	0.70	2.0	ug/L	40.0	ND	42.9	23-134	16.7	61	
4-Chlorophenyl phenyl ether	28	0.90	4.0	ug/L	40.0	ND	70.8	25-158	0.809	61	
Chrysene	21	0.80	2.0	ug/L	40.0	ND	52.4	17-168	2.36	87	
Di-n-butyl phthalate	23	0.90	10	ug/L	40.0	ND	56.7	1-120	7.80	47	
Di-n-octyl phthalate	7.6	0.60	10	ug/L	40.0	ND	19.0	4-146	21.4	69	J
Dibenz (a,h) anthracene	12	0.80	2.0	ug/L	40.0	ND	30.1	2-227	14.9	126	
Dibenzofuran	27	0.90	4.0	ug/L	40.0	ND	66.4	57-107	8.72	29	
1,2-Dichlorobenzene	9.9	0.60	1.0	ug/L	40.0	ND	24.8	7-104	85.8	41	QM-08
1,3-Dichlorobenzene	8.7	0.60	1.0	ug/L	40.0	ND	21.6	1-106	96.7	41	QM-08
1,4-Dichlorobenzene	9.0	0.60	1.0	ug/L	40.0	ND	22.5	3-105	91.9	42	QM-08
2,4-Dichlorophenol	25	0.70	2.0	ug/L	40.0	ND	62.7	39-135	4.90	50	
Diethyl phthalate	13	0.30	2.0	ug/L	40.0	ND	31.7	2-120	11.9	100	
Dimethyl phthalate	1.8	0.80	2.0	ug/L	40.0	ND	4.55	2-120	108	183	J
2,4-Dimethylphenol	13	1.0	2.0	ug/L	50.0	ND	26.1	32-120	38.8	58	QM-05
4,6-Dinitro-2-methylphenol	21	3.0	4.0	ug/L	40.0	ND	53.0	7-181	42.5	203	
2,4-Dinitrophenol	11	5.0	5.0	ug/L	40.0	ND	28.5	10-191	50.9	132	
2,4-Dinitrotoluene	26	0.80	2.0	ug/L	40.0	ND	63.9	39-139	5.10	42	
2,6-Dinitrotoluene	29	0.80	2.0	ug/L	40.0	ND	72.7	50-158	7.13	48	
Fluoranthene	32	0.80	1.0	ug/L	40.0	ND	79.3	26-137	2.78	66	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA03683 - SVOAs in Water GCMS**

Matrix Spike Dup (AA03683-MSD1)	Source: 20A1094-01	Prepared: 01/14/20	Analyzed: 01/24/20							
Fluorene	30	0.80	2.0 ug/L	40.0	ND	74.0	59-121	0.169	38	
Hexachlorobenzene	26	0.90	1.0 ug/L	40.0	ND	65.4	2-152	6.15	55	
Hexachlorobutadiene	12	0.80	1.0 ug/L	40.0	ND	28.9	24-120	75.5	62	QM-08
Hexachlorocyclopentadiene	14	4.0	4.0 ug/L	40.0	ND	34.6	10-93	40.3	55	
Hexachloroethane	8.6	0.60	1.0 ug/L	40.0	ND	21.4	40-120	94.4	52	QM-05, QM-08
Indeno (1,2,3-cd) pyrene	13	0.60	2.0 ug/L	40.0	ND	31.6	2-171	11.1	99	
Isophorone	22	0.30	1.0 ug/L	40.0	ND	55.6	21-196	36.1	93	
2-Methylnaphthalene	21	1.0	2.0 ug/L	40.0	ND	53.4	44-106	31.4	33	
2-Methylphenol (o-cresol)	19	0.60	5.0 ug/L	40.0	ND	48.2	9-124	4.18	33	
3 & 4-Methylphenol (m,p-cresol)	21	0.60	5.0 ug/L	40.0	ND	52.0	12-99	6.04	33	
N-Nitrosodi-n-propylamine	19	0.80	2.0 ug/L	40.0	ND	47.9	2-230	33.7	87	
N-Nitrosodimethylamine	6.4	0.30	2.0 ug/L	40.0	ND	16.0	10-84	93.4	59	QM-08
N-Nitrosodiphenylamine	31	1.0	1.0 ug/L	40.0	ND	76.9	40-115	0.228	25	
Naphthalene	16	0.70	1.0 ug/L	40.0	ND	40.9	21-133	46.0	65	
2-Nitroaniline	50	1.0	20 ug/L	60.0	ND	83.1	48-128	3.80	26	
3-Nitroaniline	37	5.0	50 ug/L	60.0	ND	61.3	17-137	2.39	25	J
4-Nitroaniline	45	4.0	20 ug/L	60.0	ND	75.5	13-191	13.3	33	
2-Nitrophenol	20	0.90	10 ug/L	40.0	ND	48.8	29-182	10.8	55	
4-Nitrophenol	11	3.0	5.0 ug/L	40.0	ND	28.0	7-132	53.0	131	
Nitrobenzene	17	0.90	1.0 ug/L	40.0	ND	43.2	35-180	57.5	62	
Pentachlorophenol	21	4.0	5.0 ug/L	40.0	ND	52.1	14-176	35.4	86	
Phenanthrene	31	0.90	2.0 ug/L	40.0	ND	77.0	54-120	4.91	39	
Phenol	11	0.50	1.0 ug/L	40.0	ND	26.8	5-120	11.3	64	
Pyrene	28	0.40	2.0 ug/L	40.0	ND	70.1	52-120	5.79	49	
1,2,4-Trichlorobenzene	14	0.60	2.0 ug/L	40.0	ND	36.0	44-142	66.1	50	QM-05, QM-08
2,4,5-Trichlorophenol	34	0.60	2.0 ug/L	40.0	ND	84.7	65-125	28.2	25	QM-08
2,4,6-Trichlorophenol	33	0.70	2.0 ug/L	40.0	ND	82.6	37-144	33.9	58	
Surrogate: 2-Fluorobiphenyl	26.2		ug/L	40.0		65.5	27-119			
Surrogate: 2-Fluorophenol	9.70		ug/L	40.0		24.2	7-85			
Surrogate: Nitrobenzene-d5	16.5		ug/L	40.0		41.2	15-314			
Surrogate: p-Terphenyl-d14	18.4		ug/L	40.0		46.1	36-141			
Surrogate: Phenol-d6	10.1		ug/L	40.0		25.3	1-65			
Surrogate: 2,4,6-Tribromophenol	33.2		ug/L	40.0		83.1	4-168			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA03684 - SVOAs in Water GCMS**

<b>Blank (AA03684-BLK1)</b>		Prepared: 01/14/20 Analyzed: 01/22/20									
Benzidine	ND	3.0	5.0	ug/L							U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L							U
Surrogate: 2-Fluorobiphenyl	31.6			ug/L	40.0		79.0	27-119			
Surrogate: Nitrobenzene-d5	32.5			ug/L	40.0		81.2	15-314			
Surrogate: p-Terphenyl-d14	35.6			ug/L	40.0		88.9	36-141			

<b>LCS (AA03684-BS1)</b>		Prepared: 01/14/20 Analyzed: 01/22/20									
Benzidine	12.1	3.0	5.0	ug/L	79.4		15.3	12-151			
3,3'-Dichlorobenzidine	63.3	2.0	5.0	ug/L	79.4		79.8	8-120			
Surrogate: 2-Fluorobiphenyl	33.2			ug/L	40.0		82.9	27-119			
Surrogate: Nitrobenzene-d5	32.9			ug/L	40.0		82.2	15-314			
Surrogate: p-Terphenyl-d14	39.0			ug/L	40.0		97.4	36-141			

<b>Matrix Spike (AA03684-MS1)</b>		Source: 20A1094-01		Prepared: 01/14/20 Analyzed: 01/22/20							
Benzidine	11.7	3.0	5.0	ug/L	79.4	ND	14.7	4-262			
3,3'-Dichlorobenzidine	50.3	2.0	5.0	ug/L	79.4	ND	63.4	4-262			
Surrogate: 2-Fluorobiphenyl	26.9			ug/L	40.0		67.3	27-119			
Surrogate: Nitrobenzene-d5	30.8			ug/L	40.0		76.9	15-314			
Surrogate: p-Terphenyl-d14	24.3			ug/L	40.0		60.7	36-141			

<b>Matrix Spike Dup (AA03684-MSD1)</b>		Source: 20A1094-01		Prepared: 01/14/20 Analyzed: 01/22/20							
Benzidine	11.7	3.0	5.0	ug/L	79.4	ND	14.7	4-262	0.0857	108	
3,3'-Dichlorobenzidine	49.3	2.0	5.0	ug/L	79.4	ND	62.1	4-262	2.07	108	
Surrogate: 2-Fluorobiphenyl	31.2			ug/L	40.0		78.0	27-119			
Surrogate: Nitrobenzene-d5	33.2			ug/L	40.0		83.1	15-314			
Surrogate: p-Terphenyl-d14	24.6			ug/L	40.0		61.4	36-141			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA04692 - SVOAs in Water GCMS**

**Blank (AA04692-BLK1)**

Prepared: 01/14/20 Analyzed: 01/28/20

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	22.1			ug/L	40.0		55.4	24-119			
Surrogate: Nitrobenzene-d5	21.4			ug/L	40.0		53.6	15-314			
Surrogate: p-Terphenyl-d14	37.9			ug/L	40.0		94.7	37-139			

**LCS (AA04692-BS1)**

Prepared: 01/14/20 Analyzed: 01/28/20

Acenaphthylene	22.4	0.20	0.20	ug/L	40.0		56.1	54-126			
Anthracene	26.4	0.090	0.20	ug/L	40.0		66.1	43-120			
Benzo (a) anthracene	33.4	0.20	0.20	ug/L	40.0		83.4	42-133			
Benzo (a) pyrene	33.8	0.20	0.20	ug/L	40.0		84.4	32-148			
Benzo (b) fluoranthene	37.0	0.20	0.20	ug/L	40.0		92.5	42-140			
Benzo (g,h,i) perylene	31.5	0.10	0.20	ug/L	40.0		78.8	2-195			
Benzo (k) fluoranthene	29.8	0.20	0.20	ug/L	40.0		74.6	25-146			
Chrysene	36.4	0.20	0.20	ug/L	40.0		91.1	44-140			
Dibenz (a,h) anthracene	33.1	0.10	0.20	ug/L	40.0		82.8	2-200			
Fluorene	34.4	0.20	0.20	ug/L	40.0		86.0	70-120			
Indeno (1,2,3-cd) pyrene	30.6	0.030	0.20	ug/L	40.0		76.6	2-151			
Phenanthrene	30.3	0.10	0.20	ug/L	40.0		75.8	65-120			
Pyrene	34.0	0.20	0.20	ug/L	40.0		85.0	70-120			
Surrogate: 2-Fluorobiphenyl	21.6			ug/L	40.0		54.1	24-119			
Surrogate: Nitrobenzene-d5	22.8			ug/L	40.0		57.0	15-314			
Surrogate: p-Terphenyl-d14	34.3			ug/L	40.0		85.8	37-139			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 950cc Widemouth Amber Packer Project Number: Lot Number T9340CUFS	Reported: 02/18/20 13:53
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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 AA04692 - SVOAs in Water GCMS**

<b>Matrix Spike (AA04692-MS1)</b>		<b>Source: 20A1094-01</b>			<b>Prepared: 01/14/20</b>		<b>Analyzed: 01/28/20</b>	
Acenaphthylene	20.8	0.20	0.20	ug/L	40.0	ND	51.9	33-145
Anthracene	22.6	0.090	0.20	ug/L	40.0	ND	56.6	27-133
Benzo (a) anthracene	26.6	0.20	0.20	ug/L	40.0	ND	66.6	33-143
Benzo (a) pyrene	20.5	0.20	0.20	ug/L	40.0	ND	51.2	17-163
Benzo (b) fluoranthene	24.3	0.20	0.20	ug/L	40.0	ND	60.6	24-159
Benzo (g,h,i) perylene	17.6	0.10	0.20	ug/L	40.0	ND	44.1	2-219
Benzo (k) fluoranthene	19.5	0.20	0.20	ug/L	40.0	ND	48.8	11-162
Chrysene	27.4	0.20	0.20	ug/L	40.0	ND	68.6	17-168
Dibenz (a,h) anthracene	18.0	0.10	0.20	ug/L	40.0	ND	44.9	2-227
Fluorene	24.2	0.20	0.20	ug/L	40.0	ND	60.4	59-121
Indeno (1,2,3-cd) pyrene	17.3	0.030	0.20	ug/L	40.0	ND	43.2	2-171
Phenanthrene	23.5	0.10	0.20	ug/L	40.0	ND	58.6	54-120
Pyrene	29.4	0.20	0.20	ug/L	40.0	ND	73.4	52-120
Surrogate: 2-Fluorobiphenyl	23.1			ug/L	40.0		57.7	24-119
Surrogate: Nitrobenzene-d5	30.0			ug/L	40.0		75.1	15-314
Surrogate: p-Terphenyl-d14	20.3			ug/L	40.0		50.8	37-139

<b>Matrix Spike Dup (AA04692-MSD1)</b>		<b>Source: 20A1094-01</b>			<b>Prepared: 01/14/20</b>		<b>Analyzed: 01/28/20</b>			
Acenaphthylene	20.6	0.20	0.20	ug/L	40.0	ND	51.5	33-145	0.822	74
Anthracene	23.5	0.090	0.20	ug/L	40.0	ND	58.8	27-133	3.90	66
Benzo (a) anthracene	27.3	0.20	0.20	ug/L	40.0	ND	68.2	33-143	2.41	53
Benzo (a) pyrene	18.0	0.20	0.20	ug/L	40.0	ND	45.1	17-163	12.6	72
Benzo (b) fluoranthene	29.4	0.20	0.20	ug/L	40.0	ND	73.6	24-159	19.2	71
Benzo (g,h,i) perylene	11.9	0.10	0.20	ug/L	40.0	ND	29.8	2-219	38.8	97
Benzo (k) fluoranthene	17.4	0.20	0.20	ug/L	40.0	ND	43.5	11-162	11.5	63
Chrysene	25.2	0.20	0.20	ug/L	40.0	ND	63.1	17-168	8.32	87
Dibenz (a,h) anthracene	14.1	0.10	0.20	ug/L	40.0	ND	35.2	2-227	24.1	126
Fluorene	28.1	0.20	0.20	ug/L	40.0	ND	70.3	59-121	15.2	38
Indeno (1,2,3-cd) pyrene	12.3	0.030	0.20	ug/L	40.0	ND	30.8	2-171	33.3	99
Phenanthrene	24.2	0.10	0.20	ug/L	40.0	ND	60.4	54-120	2.94	39
Pyrene	34.3	0.20	0.20	ug/L	40.0	ND	85.8	52-120	15.6	49
Surrogate: 2-Fluorobiphenyl	22.5			ug/L	40.0		56.2	24-119		
Surrogate: Nitrobenzene-d5	20.8			ug/L	40.0		51.9	15-314		
Surrogate: p-Terphenyl-d14	27.7			ug/L	40.0		69.2	37-139		

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Sample Traps, LLC  
262 Rickenbacker Circle  
Livermore CA, 94551

Project Manager: Quality Control Manager  
Project: QC- 950cc Widemouth Amber Packer  
Project Number: Lot Number T9340CUFS

Reported:  
02/18/20 13:53

### Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QL-04 The LCS/LCSD RPD for this analyte was outside of established control limits. Batch accepted based on acceptable recovery for both LCS/LCSD.
- 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.
- T-02 Sample analyzed outside of recommended holding time per client.
- T-05 Sample prepared 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



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Service Center & Micro Lab: 6398 Dougherty Rd, Ste 35, Dublin, CA 94568  
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# Chain of Custody Record

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

Lab No. 20A1380 Page \_\_\_\_\_ of \_\_\_\_\_

<b>Report to:</b> Company: Sample Traps LLC Attn: Quality Control Manager Address: Phone/Fax: Email Address: admin@sampletraps.com		<b>Invoice to (if different):</b> Company: Attn: Address: Phone/Fax: Email Address:		<b>Project Info for Report:</b> Project ID: QC- 950cc Widemouth Amber Packer Project No: Lot number T9340CUFS PO/Reference :		Signature below authorizes work under terms stated on reverse side.																
<b>Samplers Signature:</b> Print: Rodney Santillan		<b>Container:</b>		<b>Preservative:</b>		<b>Matrix:</b>		Total Number of Containers	<b>Analyses Requested</b>										Lab Approval Required For Rush TATs	<b>Sample Notes</b> (lab use only) Temperature: deg. C Shipment Method: Custody Seals: Y / N		
		40ml VOA		HCL		Water			include j-flag reporting	8081/82 Sample Traps	8141 Sample Traps	8151 Sample Traps	8270 Sample Traps Group	8270 PNA SIM Sample Traps	10 days	RUSH:	5 days	48 hours			Other: days	
		Poly		Methanol		None									<input checked="" type="radio"/>							
		Glass bottle		Na Bisulfate		Other																
		Glass Jar		Other		Water																
						Container																
<b>Sample Identification</b>		<b>Sampled:</b> Date Time																			Sample Notes or CDPH Source Numbers:	
T9340CUFS - 01		1/9						2	x	x												
T9340CUFS - 02								2			x											
T9340CUFS - 03								2				x										
T9340CUFS - 04								2					x									
T9340CUFS - 05								2						x								
<b>Relinquished by:</b>		<b>Received by:</b>		<b>Date:</b>		<b>Time:</b>		<b>CDPH Write On EDT Transmission?</b> <input type="radio"/> Yes <input type="radio"/> No														
Per BAL		[Signature]		1-9-20		0800		State System Number: _____ If "Y" please enter the Source Number(s) in the column above														
								<b>CA Geotracker EDF Report?</b> <input type="radio"/> Yes <input type="radio"/> No														
								Global ID: _____ Sampling Company Log Code: _____ EDF to (Email Address): _____														
								Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____														