

Work Orders: 8E02024

Report Date: 8/03/2018

Project: Testing PPCPs

Received Date: 5/2/2018

Turnaround Time: Normal

Phones: (530) 694-2327

Attn: Marina Vance

Fax:

P.O. #:

Client: Alpine Watershed Group
P.O. Box 296
Markleeville, CA 96120

Billing Code:

Dear Marina Vance,

Enclosed are the results of analyses for samples received 5/02/18 with the Chain-of-Custody document. The samples were received in good condition, at 1.6 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: 3: Final Effluent
8E02024-01 (Water)

Sampled: 04/23/18 8:22 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier	
Method: ASTM D7065		Batch ID: W8E0197		Instr: GCMS13		Prepared: 05/03/18 09:05	Analyst: EFC
4-Nonylphenol	ND	25	ng/l	1	05/15/18 22:32		
4-Octylphenol	ND	25	ng/l	1	05/15/18 22:32		
4-tert-Octylphenol	370	5.0	ng/l	1	05/15/18 22:32		
4-tert-Octylphenol diethoxylate	ND	25	ng/l	1	05/15/18 22:32		
4-tert-Octylphenol monoethoxylate	ND	25	ng/l	1	05/15/18 22:32		
Nonylphenol	1700	25	ng/l	1	05/15/18 22:32		
Nonylphenol diethoxylate	620	100	ng/l	1	05/15/18 22:32		
Nonylphenol monoethoxylate	1600	50	ng/l	1	05/15/18 22:32		
<i>Surrogate(s)</i>							
4-Nonylphenol-d4	119%	50-150	Conc: 298		05/15/18 22:32		
Method: EPA 1694M-APCI		Batch ID: W8E0498		Instr: LCMS02		Prepared: 05/09/18 08:08	Analyst: kan
17-a-Ethynylestradiol	ND	10	ng/l	1	06/13/18 19:45	R-01	
17-b-Estradiol	ND	10	ng/l	1	06/13/18 19:45	R-01	
Estrone	ND	30	ng/l	1	06/13/18 19:45	R-01	
Progesterone	ND	1.0	ng/l	1	06/13/18 19:45		
Testosterone	ND	5.0	ng/l	1	06/13/18 19:45	R-01	
Method: EPA 1694M-ESI-		Batch ID: W8E0497		Instr: LCMS02		Prepared: 05/09/18 08:07	Analyst: kan
Bisphenol A	87	1.0	ng/l	1	05/25/18 01:33		
Diclofenac	46	1.0	ng/l	1	05/25/18 01:33		
Gemfibrozil	66	1.0	ng/l	1	05/25/18 01:33		
Ibuprofen	100	1.0	ng/l	1	05/25/18 01:33		



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Sample Results

(Continued)

Sample: 3: Final Effluent
8E02024-01 (Water)

Sampled: 04/23/18 8:22 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 1694M-ESI- (Continued) Batch ID: W8E0497 Instr: LCMS02 Prepared: 05/09/18 08:07 Analyst: kan						
Iopromide	ND	5.0	ng/l	1	05/25/18 01:33	
Naproxen	1100	1.0	ng/l	1	05/25/18 01:33	E-01
Salicylic Acid	63	50	ng/l	1	05/25/18 01:33	
Triclosan	130	2.0	ng/l	1	05/25/18 01:33	
Method: EPA 1694M-ESI+ Batch ID: W8E0499 Instr: LCMS02 Prepared: 05/09/18 08:09 Analyst: kan						
Acetaminophen	27	20	ng/l	1	06/18/18 18:03	
Amoxicillin	840	10	ng/l	1	06/18/18 18:03	E-01, I-05
Azithromycin	150	10	ng/l	1	06/18/18 18:03	
Caffeine	68	1.0	ng/l	1	06/18/18 18:03	
Carbamazepine	130	1.0	ng/l	1	06/18/18 18:03	E-01
DEET	600	1.0	ng/l	1	06/18/18 18:03	E-01
Diazepam	2.5	1.0	ng/l	1	06/18/18 18:03	
Fluoxetine	19	1.0	ng/l	1	06/18/18 18:03	B
Meprobamate	640	1.0	ng/l	1	06/18/18 18:03	E-01
Methadone	32	1.0	ng/l	1	06/18/18 18:03	
Phenytoin (Dilantin)	120	1.0	ng/l	1	06/15/18 22:08	E-01
Primidone	36	1.0	ng/l	1	06/18/18 18:03	I-05
Sulfamethoxazole	1500	1.0	ng/l	1	06/18/18 18:03	E-01
TCEP	140	1.0	ng/l	1	06/15/18 22:08	E-01
T CPP	2500	2.0	ng/l	1	06/18/18 18:03	E-01
TDCPP	300	1.0	ng/l	1	06/18/18 18:03	E-01
Trimethoprim	400	1.0	ng/l	1	06/18/18 18:03	E-01
Method: EPA 532M Batch ID: W8E0317 Instr: LCMS03 Prepared: 05/10/18 10:34 Analyst: PJS						
Diuron	ND	1.0	ug/l	1	05/10/18 12:52	
Method: LC/MS/MS Batch ID: W8F0123 Instr: LCMS03 Prepared: 05/09/18 08:07 Analyst: pjs						
Iohexol	86	5.0	ng/l	1	06/04/18 14:47	



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Quality Control Results

Organic Compounds by Tandem LC/MS/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W8F0123 - Direct Injection										
Blank (W8F0123-BLK1)				Prepared: 05/09/18 Analyzed: 06/04/18						
Iohexol	ND	5.0	ng/l							
LCS (W8F0123-BS1)				Prepared: 05/09/18 Analyzed: 06/04/18						
Iohexol	249	5.0	ng/l	50.0		497	70-130			BS-H
LCS Dup (W8F0123-BSD1)				Prepared: 05/09/18 Analyzed: 06/04/18						
Iohexol	231	5.0	ng/l	50.0		461	70-130	8	30	BS-H

PPCPs - Pharmaceuticals by LC/MSMS-ESI+

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W8E0499 - EPA 3535/SPE										
Blank (W8E0499-BLK1)				Prepared: 05/09/18 Analyzed: 06/15/18						
Phenytoin (Dilantin)	ND	1.0	ng/l							
TCEP	ND	1.0	ng/l							
Blank (W8E0499-BLK2)				Prepared: 05/09/18 Analyzed: 06/18/18						
Acetaminophen	ND	20	ng/l							QC-2
Amoxicillin	ND	10	ng/l							QC-2
Atenolol	3.33	1.0	ng/l							B, QC-2
Atorvastatin	ND	1.0	ng/l							QC-2
Azithromycin	ND	10	ng/l							QC-2
Caffeine	ND	1.0	ng/l							QC-2
Carbamazepine	ND	1.0	ng/l							QC-2
Ciprofloxacin	6.88	5.0	ng/l							B-06, QC-2
Cotinine	ND	2.0	ng/l							QC-2
DEET	ND	1.0	ng/l							QC-2
Diazepam	ND	1.0	ng/l							QC-2
Fluoxetine	2.12	1.0	ng/l							B, QC-2
Galaxolide (HHCB)	13.1	10	ng/l							B, QC-2
Meprobamate	ND	1.0	ng/l							QC-2
Methadone	ND	1.0	ng/l							QC-2
Oxybenzone	1.24	1.0	ng/l							B, QC-2
Praziquantel	ND	1.0	ng/l							QC-2
Primidone	ND	1.0	ng/l							QC-2
Quinoline	ND	1.0	ng/l							QC-2
Sucralose	ND	5.0	ng/l							QC-2
Sulfamethoxazole	ND	1.0	ng/l							QC-2
T CPP	2.71	2.0	ng/l							B, QC-2
TDCPP	6.07	1.0	ng/l							B, QC-2
Trimethoprim	ND	1.0	ng/l							QC-2
LCS (W8E0499-BS1)				Prepared: 05/09/18 Analyzed: 06/15/18						
Phenytoin (Dilantin)	11.3	1.0	ng/l	10.0		113	69-138			
TCEP	8.13	1.0	ng/l	10.0		81	25-149			



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Quality Control Results

(Continued)

PPCPs - Pharmaceuticals by LC/MSMS-ESI+ (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8E0499 - EPA 3535/SPE (Continued)										
LCS (W8E0499-BS2)				Prepared: 05/09/18 Analyzed: 06/18/18						
Acetaminophen	189	20	ng/l	200		94	66-156			QC-2
Amoxicillin	114	10	ng/l	100		114	14-167			QC-2
Atenolol	18.8	1.0	ng/l	10.0		188	56-164			BS-04, QC-2
Atorvastatin	9.17	1.0	ng/l	10.0		92	0.1-173			QC-2
Azithromycin	79.5	10	ng/l	100		80	52-166			QC-2
Caffeine	10.2	1.0	ng/l	10.0		102	55-152			QC-2
Carbamazepine	8.17	1.0	ng/l	10.0		82	60-135			QC-2
Ciprofloxacin	43.3	5.0	ng/l	50.0		87	51-168			QC-2
Cotinine	10.7	2.0	ng/l	10.0		107	68-155			QC-2
DEET	9.44	1.0	ng/l	10.0		94	45-135			QC-2
Diazepam	9.07	1.0	ng/l	10.0		91	58-127			QC-2
Fluoxetine	7.17	1.0	ng/l	10.0		72	55-150			QC-2
Galaxolide (HHCB)	23.6	10	ng/l	50.0		47	50-150			BS-04, QC-2
Meprobamate	23.0	1.0	ng/l	10.0		230	11-166			BS-H, QC-2
Methadone	8.84	1.0	ng/l	10.0		88	62-137			QC-2
Oxybenzone	6.85	1.0	ng/l	10.0		68	50-150			QC-2
Praziquantel	11.1	1.0	ng/l	10.0		111	50-150			QC-2
Primidone	8.46	1.0	ng/l	10.0		85	54-147			QC-2
Quinoline	3.84	1.0	ng/l	10.0		38	50-150			BS-04, QC-2
Sucralose	49.1	5.0	ng/l	50.0		98	50-150			QC-2
Sulfamethoxazole	8.71	1.0	ng/l	10.0		87	60-133			QC-2
TCPP	8.48	2.0	ng/l	10.0		85	24-149			QC-2
TDCPP	13.9	1.0	ng/l	10.0		139	20-158			QC-2
Trimethoprim	9.85	1.0	ng/l	10.0		98	67-139			QC-2
LCS Dup (W8E0499-BSD1)				Prepared: 05/09/18 Analyzed: 06/15/18						
Phenytoin (Dilantin)	15.2	1.0	ng/l	10.0		152	69-138	29	30	BS-04
TCEP	13.2	1.0	ng/l	10.0		132	25-149	48	30	Q-12
LCS Dup (W8E0499-BSD2)				Prepared: 05/09/18 Analyzed: 06/18/18						
Acetaminophen	215	20	ng/l	200		108	66-156	13	30	QC-2
Amoxicillin	128	10	ng/l	100		128	14-167	12	30	QC-2
Atenolol	10.3	1.0	ng/l	10.0		103	56-164	58	30	A-01, QC-2
Atorvastatin	6.45	1.0	ng/l	10.0		64	0.1-173	35	30	Q-12, QC-2
Azithromycin	104	10	ng/l	100		104	52-166	27	30	QC-2
Caffeine	10.8	1.0	ng/l	10.0		108	55-152	6	30	QC-2
Carbamazepine	13.7	1.0	ng/l	10.0		137	60-135	51	30	BS-04, QC-2
Ciprofloxacin	49.9	5.0	ng/l	50.0		100	51-168	14	30	QC-2
Cotinine	11.0	2.0	ng/l	10.0		110	68-155	3	30	QC-2
DEET	12.3	1.0	ng/l	10.0		123	45-135	26	30	QC-2
Diazepam	11.2	1.0	ng/l	10.0		112	58-127	21	30	QC-2



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Quality Control Results

(Continued)

PPCPs - Pharmaceuticals by LC/MSMS-ESI+ (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8E0499 - EPA 3535/SPE (Continued)										
LCS Dup (W8E0499-BSD2)				Prepared: 05/09/18 Analyzed: 06/18/18						
Fluoxetine	10.2	1.0	ng/l	10.0	102	55-150	35	30	30	Q-12, QC-2
Galaxolide (HHCB)	56.3	10	ng/l	50.0	113	50-150	82	30	30	A-01, QC-2
Meprobamate	21.1	1.0	ng/l	10.0	211	11-166	9	30	30	BS-H, QC-2
Methadone	9.70	1.0	ng/l	10.0	97	62-137	9	30	30	QC-2
Oxybenzone	11.4	1.0	ng/l	10.0	114	50-150	50	30	30	QC-2, Q-12
Praziquantel	17.1	1.0	ng/l	10.0	171	50-150	43	30	30	BS-04, QC-2
Primidone	9.82	1.0	ng/l	10.0	98	54-147	15	30	30	QC-2
Quinoline	9.72	1.0	ng/l	10.0	97	50-150	87	30	30	A-01, QC-2
Sucralose	74.9	5.0	ng/l	50.0	150	50-150	42	30	30	Q-12, QC-2
Sulfamethoxazole	9.47	1.0	ng/l	10.0	95	60-133	8	30	30	QC-2
TCPP	12.4	2.0	ng/l	10.0	124	24-149	38	30	30	Q-12, QC-2
TDCPP	16.0	1.0	ng/l	10.0	160	20-158	14	30	30	BS-04, QC-2
Trimethoprim	11.0	1.0	ng/l	10.0	110	67-139	11	30	30	QC-2



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Quality Control Results

(Continued)

PPCPs - Pharmaceuticals by LC/MSMS-ESI-

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W8E0497 - EPA 3535/SPE										
Blank (W8E0497-BLK1)				Prepared: 05/09/18 Analyzed: 05/23/18						
Triclosan	ND	2.0	ng/l							
Blank (W8E0497-BLK2)				Prepared: 05/09/18 Analyzed: 05/24/18						
Bisphenol A	1.11	1.0	ng/l							B, QC-2
Diclofenac	ND	1.0	ng/l							QC-2
Gemfibrozil	ND	1.0	ng/l							QC-2
Ibuprofen	ND	1.0	ng/l							QC-2
Iopromide	ND	5.0	ng/l							QC-2
Naproxen	ND	1.0	ng/l							QC-2
Salicylic Acid	ND	50	ng/l							QC-2
Triclosan	ND	2.0	ng/l							QC-2
LCS (W8E0497-BS1)				Prepared: 05/09/18 Analyzed: 05/23/18						
Triclosan	8.84	2.0	ng/l	10.0		88	76-139			
LCS (W8E0497-BS2)				Prepared: 05/09/18 Analyzed: 05/25/18						
Bisphenol A	11.3	1.0	ng/l	10.0		113	53-168			QC-2
Diclofenac	11.2	1.0	ng/l	10.0		112	37-218			QC-2
Gemfibrozil	10.6	1.0	ng/l	10.0		106	76-122			QC-2
Ibuprofen	11.9	1.0	ng/l	10.0		119	67-139			QC-2
Iopromide	57.4	5.0	ng/l	50.0		115	0.1-163			QC-2
Naproxen	8.95	1.0	ng/l	10.0		90	64-138			QC-2
Salicylic Acid	146	50	ng/l	100		146	56-229			QC-2
Triclosan	11.6	2.0	ng/l	10.0		116	76-139			QC-2
LCS Dup (W8E0497-BSD1)				Prepared: 05/09/18 Analyzed: 05/23/18						
Triclosan	11.0	2.0	ng/l	10.0		110	76-139	22	30	
LCS Dup (W8E0497-BSD2)				Prepared: 05/09/18 Analyzed: 05/24/18						
Bisphenol A	10.8	1.0	ng/l	10.0		108	53-168	5	30	QC-2
Diclofenac	11.5	1.0	ng/l	10.0		115	37-218	3	30	QC-2
Gemfibrozil	9.50	1.0	ng/l	10.0		95	76-122	11	30	QC-2
Ibuprofen	10.1	1.0	ng/l	10.0		101	67-139	16	30	QC-2
Iopromide	63.8	5.0	ng/l	50.0		128	0.1-163	11	30	QC-2
Naproxen	4.84	1.0	ng/l	10.0		48	64-138	60	30	BS-04, QC-2
Salicylic Acid	98.4	50	ng/l	100		98	56-229	39	30	Q-12, QC-2
Triclosan	10.1	2.0	ng/l	10.0		101	76-139	14	30	QC-2



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Quality Control Results

(Continued)

PPCPs - Hormones by LC/MSMS-APCI

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8E0498 - EPA 3535/SPE										
Blank (W8E0498-BLK1)				Prepared: 05/09/18 Analyzed: 06/13/18						
17-a-Estradiol	ND	1.0	ng/l							
17-a-Ethynylestradiol	ND	1.0	ng/l							
17-b-Estradiol	ND	1.0	ng/l							
Diethylstilbestrol	ND	1.0	ng/l							
Epitestosterone	ND	1.0	ng/l							
Estriol	ND	5.0	ng/l							
Estrone	ND	1.0	ng/l							
Progesterone	ND	1.0	ng/l							
Testosterone	ND	1.0	ng/l							
LCS (W8E0498-BS1)				Prepared: 05/09/18 Analyzed: 06/13/18						
17-a-Estradiol	12.6	1.0	ng/l	10.0		126	50-150			
17-a-Ethynylestradiol	10.6	1.0	ng/l	10.0		106	68-159			
17-b-Estradiol	8.41	1.0	ng/l	10.0		84	65-146			
Diethylstilbestrol	9.82	1.0	ng/l	10.0		98	50-150			
Epitestosterone	13.8	1.0	ng/l	10.0		138	50-150			
Estriol	13.5	5.0	ng/l	10.0		135	50-150			
Estrone	10.2	1.0	ng/l	10.0		102	59-141			
Progesterone	9.80	1.0	ng/l	10.0		98	58-154			
Testosterone	14.7	1.0	ng/l	10.0		147	60-172			
LCS Dup (W8E0498-BSD1)				Prepared: 05/09/18 Analyzed: 06/13/18						
17-a-Estradiol	9.90	1.0	ng/l	10.0		99	50-150	24	30	
17-a-Ethynylestradiol	10.3	1.0	ng/l	10.0		103	68-159	3	30	
17-b-Estradiol	10.9	1.0	ng/l	10.0		109	65-146	26	30	
Diethylstilbestrol	3.17	1.0	ng/l	10.0		32	50-150	102	30	BS-04
Epitestosterone	10.6	1.0	ng/l	10.0		106	50-150	26	30	
Estriol	13.9	5.0	ng/l	10.0		139	50-150	3	30	
Estrone	8.50	1.0	ng/l	10.0		85	59-141	18	30	
Progesterone	8.58	1.0	ng/l	10.0		86	58-154	13	30	
Testosterone	11.0	1.0	ng/l	10.0		110	60-172	29	30	



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Quality Control Results

(Continued)

PPCPs - by GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8E0197 - EPA 3510/L-L SF										
Blank (W8E0197-BLK1)				Prepared: 05/03/18 Analyzed: 05/15/18						
4-Nonylphenol	ND	25	ng/l							
4-Octylphenol	ND	25	ng/l							
4-tert-Octylphenol	ND	5.0	ng/l							
4-tert-Octylphenol diethoxylate	ND	25	ng/l							
4-tert-Octylphenol monoethoxylate	ND	25	ng/l							
Nonylphenol	ND	25	ng/l							
Nonylphenol diethoxylate	ND	100	ng/l							
Nonylphenol monoethoxylate	ND	50	ng/l							
<i>Surrogate(s)</i>										
4-Nonylphenol-d4		274	ng/l	250		109	50-150			
LCS (W8E0197-BS1)				Prepared: 05/03/18 Analyzed: 05/15/18						
4-Nonylphenol	179	25	ng/l	200		90	50-150			
4-Octylphenol	184	25	ng/l	200		92	50-150			
4-tert-Octylphenol	177	5.0	ng/l	200		89	50-150			
4-tert-Octylphenol diethoxylate	163	25	ng/l	200		81	50-150			
4-tert-Octylphenol monoethoxylate	181	25	ng/l	200		90	50-150			
Nonylphenol	188	25	ng/l	200		94	50-150			
Nonylphenol diethoxylate	218	100	ng/l	200		109	50-150			
Nonylphenol monoethoxylate	201	50	ng/l	200		100	50-150			
<i>Surrogate(s)</i>										
4-Nonylphenol-d4		231	ng/l	250		92	50-150			
LCS Dup (W8E0197-BSD1)				Prepared: 05/03/18 Analyzed: 05/15/18						
4-Nonylphenol	204	25	ng/l	200		102	50-150	13	30	
4-Octylphenol	207	25	ng/l	200		103	50-150	12	30	
4-tert-Octylphenol	203	5.0	ng/l	200		101	50-150	14	30	
4-tert-Octylphenol diethoxylate	202	25	ng/l	200		101	50-150	21	30	
4-tert-Octylphenol monoethoxylate	209	25	ng/l	200		105	50-150	15	30	
Nonylphenol	217	25	ng/l	200		108	50-150	14	30	
Nonylphenol diethoxylate	197	100	ng/l	200		98	50-150	10	30	
Nonylphenol monoethoxylate	219	50	ng/l	200		110	50-150	9	30	
<i>Surrogate(s)</i>										
4-Nonylphenol-d4		267	ng/l	250		107	50-150			



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Quality Control Results

(Continued)

Urea Pesticides and Degradates by LCMS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8E0317 - Direct Injection										
Blank (W8E0317-BLK1)				Prepared & Analyzed: 05/10/18						
Diuron	ND	1.0	ug/l							
LCS (W8E0317-BS1)				Prepared & Analyzed: 05/10/18						
Diuron	5.04	1.0	ug/l	5.00		101	70-130			
Matrix Spike (W8E0317-MS1)				Prepared & Analyzed: 05/10/18						
	Source: 8E02024-01									
Diuron	6.54	1.0	ug/l	5.00	0.169	127	50-150			
Matrix Spike Dup (W8E0317-MSD1)				Prepared & Analyzed: 05/10/18						
	Source: 8E02024-01									
Diuron	5.76	1.0	ug/l	5.00	0.169	112	50-150	13	30	



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Notes and Definitions

Item	Definition
A-01	BS/BSD failed RPD criteria and was accepted based upon the BSD.
B	Blank contamination. The analyte was found in the associated blank as well as in the sample.
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
BS-04	The recovery of this analyte in LCS or LCSD was outside control limit. Sample was accepted based on the remaining LCS, LCSD or LCS-LL.
BS-H	The recovery of this analyte in the BS/LCS was over the control limit. Sample result is suspect.
E-01	The concentration indicated for this analyte is an estimated value above the calibration range.
I-05	Low internal standard recovery possibly due to matrix interference. The result is suspect.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
ASTM D7065 in Water		
4-Nonylphenol	104-40-5	NELAP
4-Octylphenol	1806-26-4	NELAP
4-tert-Octylphenol	140-66-9	NELAP
4-tert-Octylphenol diethoxylate		NELAP
4-tert-Octylphenol monoethoxylate		NELAP
Nonylphenol	25154-52-3	NELAP
Nonylphenol diethoxylate	20427-84-3	NELAP
Nonylphenol monoethoxylate	27986-36-3	NELAP
4-Nonylphenol-d4	358730-95-7	NELAP
EPA 532M in Water		
Diuron	330-54-1	NELAP
LC/MS/MS in Water		
lohexol	66108-95-0	NELAP



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FINAL REPORT

Reviewed by:

Regina Giancola
Project Manager



DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 •
LACSD #10143 • NELAP-CA #04229CA • NELAP-OR #4047 • NJ-DEP #CA015

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Work Orders: 8D25108

Report Date: 8/03/2018

Project: Testing PPCPs

Received Date: 4/25/2018

Turnaround Time: Normal

Phones: (530) 694-2327

Attn: Marina Vance

Fax:

Client: Alpine Watershed Group
P.O. Box 296
Markleeville, CA 96120

P.O. #:

Billing Code:

Dear Marina Vance,

Enclosed are the results of analyses for samples received 4/25/18 with the Chain-of-Custody document. The samples were received in good condition, at 4.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: 2: C-Line Terminus
8D25108-02 (Water)

Sampled: 04/23/18 9:50 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier	
Method: ASTM D7065		Batch ID: W8E0197		Instr: GCMS13		Prepared: 05/03/18 09:05	Analyst: EFC
4-Nonylphenol	ND	120	ng/l	5	05/15/18 21:25	M-04	
4-Octylphenol	ND	120	ng/l	5	05/15/18 21:25	M-04	
4-tert-Octylphenol	170	25	ng/l	5	05/15/18 21:25	M-04	
4-tert-Octylphenol diethoxylate	ND	120	ng/l	5	05/15/18 21:25	M-04	
4-tert-Octylphenol monoethoxylate	ND	120	ng/l	5	05/15/18 21:25	M-04	
Nonylphenol	1500	120	ng/l	5	05/15/18 21:25	M-04	
Nonylphenol diethoxylate	ND	500	ng/l	5	05/15/18 21:25	M-04	
Nonylphenol monoethoxylate	570	250	ng/l	5	05/15/18 21:25	M-04	
<i>Surrogate(s)</i>							
4-Nonylphenol-d4	127%	50-150	Conc: 317		05/15/18 21:25	M-04	
Method: EPA 1694M-APCI		Batch ID: W8E0498		Instr: LCMS02		Prepared: 05/09/18 08:08	Analyst: kan
17-a-Ethinylestradiol	ND	10	ng/l	1	06/13/18 18:24	R-01	
17-b-Estradiol	ND	10	ng/l	1	06/13/18 18:24	R-01	
Estrone	46	1.0	ng/l	1	06/13/18 18:24		
Progesterone	1.1	1.0	ng/l	1	06/13/18 18:24		
Testosterone	ND	1.0	ng/l	1	06/13/18 18:24		
Method: EPA 1694M-ESI-		Batch ID: W8E0497		Instr: LCMS02		Prepared: 05/09/18 08:07	Analyst: kan
Bisphenol A	82	1.0	ng/l	1	05/25/18 00:16		
Diclofenac	84	1.0	ng/l	1	05/25/18 00:16		
Gemfibrozil	70	1.0	ng/l	1	05/25/18 00:16		
Ibuprofen	180	1.0	ng/l	1	05/25/18 00:16	E-01	



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FINAL REPORT

Sample Results

(Continued)

Sample: 2: C-Line Terminus
8D25108-02 (Water)

Sampled: 04/23/18 9:50 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 1694M-ESI- (Continued) Batch ID: W8E0497 Instr: LCMS02 Prepared: 05/09/18 08:07 Analyst: kan						
Iopromide	ND	5.0	ng/l	1	05/25/18 00:16	
Naproxen	990	1.0	ng/l	1	05/25/18 00:16	E-01
Salicylic Acid	100	50	ng/l	1	05/25/18 00:16	
Triclosan	95	2.0	ng/l	1	05/25/18 00:16	
Method: EPA 1694M-ESI+ Batch ID: W8E0499 Instr: LCMS02 Prepared: 05/09/18 08:09 Analyst: kan						
Acetaminophen	29	20	ng/l	1	06/18/18 16:41	
Amoxicillin	30	10	ng/l	1	06/18/18 16:41	I-05
Azithromycin	160	10	ng/l	1	06/18/18 16:41	
Caffeine	170	1.0	ng/l	1	06/18/18 16:41	E-01
Carbamazepine	130	1.0	ng/l	1	06/18/18 16:41	E-01
DEET	780	1.0	ng/l	1	06/18/18 16:41	E-01
Diazepam	2.2	1.0	ng/l	1	06/18/18 16:41	
Fluoxetine	23	1.0	ng/l	1	06/18/18 16:41	
Meprobamate	420	1.0	ng/l	1	06/18/18 16:41	E-01
Methadone	31	1.0	ng/l	1	06/18/18 16:41	
Phenytoin (Dilantin)	33	1.0	ng/l	1	06/15/18 20:45	
Primidone	24	1.0	ng/l	1	06/18/18 16:41	I-05
Sulfamethoxazole	1100	1.0	ng/l	1	06/18/18 16:41	E-01
TCEP	87	1.0	ng/l	1	06/15/18 20:45	
T CPP	2300	2.0	ng/l	1	06/18/18 16:41	E-01
TDCPP	360	1.0	ng/l	1	06/18/18 16:41	E-01
Trimethoprim	520	1.0	ng/l	1	06/18/18 16:41	E-01
Method: EPA 532M Batch ID: W8D1739 Instr: LCMS03 Prepared: 04/30/18 10:31 Analyst: PJS						
Diuron	ND	1.0	ug/l	1	04/30/18 17:44	
Method: LC/MS/MS Batch ID: W8F0123 Instr: LCMS03 Prepared: 05/09/18 08:07 Analyst: pjs						
Iohexol	94	5.0	ng/l	1	06/04/18 14:31	



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Certificate of Analysis

FINAL REPORT

Sample Results

(Continued)

Sample: 1: Harvey Place Reservoirs
8D25108-03 (Water)

Sampled: 04/23/18 10:06 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: ASTM D7065	Batch ID: W8E0197	Instr: GCMS13	Prepared: 05/03/18 09:05		Analyst: EFC	
4-Nonylphenol	ND	120	ng/l	5	05/15/18 21:58	M-04
4-Octylphenol	ND	120	ng/l	5	05/15/18 21:58	M-04
4-tert-Octylphenol	ND	25	ng/l	5	05/15/18 21:58	M-04
4-tert-Octylphenol diethoxylate	ND	120	ng/l	5	05/15/18 21:58	M-04
4-tert-Octylphenol monoethoxylate	ND	120	ng/l	5	05/15/18 21:58	M-04
Nonylphenol	630	120	ng/l	5	05/15/18 21:58	M-04
Nonylphenol diethoxylate	550	500	ng/l	5	05/15/18 21:58	M-04
Nonylphenol monoethoxylate	580	250	ng/l	5	05/15/18 21:58	M-04
<i>Surrogate(s)</i>						
4-Nonylphenol-d4	138%	50-150	Conc: 345		05/15/18 21:58	M-04
Method: EPA 1694M-APCI	Batch ID: W8E0498	Instr: LCMS02	Prepared: 05/09/18 08:08		Analyst: kan	
17-a-Ethynylestradiol	ND	10	ng/l	1	06/13/18 18:44	R-01
17-b-Estradiol	ND	10	ng/l	1	06/13/18 18:44	R-01
Estrone	ND	10	ng/l	1	06/13/18 18:44	R-01
Progesterone	ND	1.0	ng/l	1	06/13/18 18:44	
Testosterone	ND	1.0	ng/l	1	06/13/18 18:44	
Method: EPA 1694M-ESI-	Batch ID: W8E0497	Instr: LCMS02	Prepared: 05/09/18 08:07		Analyst: kan	
Bisphenol A	ND	1.0	ng/l	1	05/25/18 00:31	
Diclofenac	ND	1.0	ng/l	1	05/25/18 00:31	
Gemfibrozil	330	1.0	ng/l	1	05/25/18 00:31	E-01
Ibuprofen	690	1.0	ng/l	1	05/25/18 00:31	E-01
Iopromide	ND	5.0	ng/l	1	05/25/18 00:31	
Naproxen	400	1.0	ng/l	1	05/25/18 00:31	E-01
Salicylic Acid	ND	50	ng/l	1	05/25/18 00:31	
Triclosan	11	2.0	ng/l	1	05/25/18 00:31	
Method: EPA 1694M-ESI+	Batch ID: W8E0499	Instr: LCMS02	Prepared: 05/09/18 08:09		Analyst: kan	
Acetaminophen	ND	20	ng/l	1	06/18/18 16:57	
Amoxicillin	ND	10	ng/l	1	06/18/18 16:57	I-05
Azithromycin	ND	10	ng/l	1	06/18/18 16:57	
Caffeine	5400	1.0	ng/l	1	06/18/18 16:57	E-01
Carbamazepine	130	1.0	ng/l	1	06/18/18 16:57	E-01
DEET	460	1.0	ng/l	1	06/18/18 16:57	E-01
Diazepam	2.9	1.0	ng/l	1	06/18/18 16:57	
Fluoxetine	1.0	1.0	ng/l	1	06/18/18 16:57	B
Meprobamate	470	1.0	ng/l	1	06/18/18 16:57	E-01
Methadone	5.1	1.0	ng/l	1	06/18/18 16:57	
Phenytoin (Dilantin)	56	1.0	ng/l	1	06/15/18 21:02	
Primidone	76	1.0	ng/l	1	06/18/18 16:57	I-05
Sulfamethoxazole	730	1.0	ng/l	1	06/18/18 16:57	E-01
TCEP	70	1.0	ng/l	1	06/15/18 21:02	
TCP	1800	2.0	ng/l	1	06/18/18 16:57	E-01



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Certificate of Analysis

FINAL REPORT

Sample Results

(Continued)

Sample: 1: Harvey Place Reservoirs
8D25108-03 (Water)

Sampled: 04/23/18 10:06 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 1694M-ESI+ (Continued)	Batch ID: W8E0499	Instr: LCMS02	Prepared: 05/09/18 08:09	Analyst: kan		
TDCPP	300	1.0	ng/l	1	06/18/18 16:57	E-01
Trimethoprim	180	1.0	ng/l	1	06/18/18 16:57	E-01
Method: EPA 532M	Batch ID: W8D1739	Instr: LCMS03	Prepared: 04/30/18 10:31	Analyst: PJS		
Diuron	ND	1.0	ug/l	1	04/30/18 17:52	
Method: LC/MS/MS	Batch ID: W8F0123	Instr: LCMS03	Prepared: 05/09/18 08:07	Analyst: pjs		
Iohexol	430	5.0	ng/l	1	06/04/18 14:39	



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FINAL REPORT

Quality Control Results

Organic Compounds by Tandem LC/MS/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8F0123 - Direct Injection										
Blank (W8F0123-BLK1)				Prepared: 05/09/18 Analyzed: 06/04/18						
Iohexol	ND	5.0	ng/l							
LCS (W8F0123-BS1)				Prepared: 05/09/18 Analyzed: 06/04/18						
Iohexol	249	5.0	ng/l	50.0		497	70-130			BS-H
LCS Dup (W8F0123-BSD1)				Prepared: 05/09/18 Analyzed: 06/04/18						
Iohexol	231	5.0	ng/l	50.0		461	70-130	8	30	BS-H
PPCPs - Pharmaceuticals by LC/MSMS-ESI+										
Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8E0499 - EPA 3535/SPE										
Blank (W8E0499-BLK1)				Prepared: 05/09/18 Analyzed: 06/15/18						
Phenytoin (Dilantin)	ND	1.0	ng/l							
TCEP	ND	1.0	ng/l							
Blank (W8E0499-BLK2)				Prepared: 05/09/18 Analyzed: 06/18/18						
Acetaminophen	ND	20	ng/l							QC-2
Amoxicillin	ND	10	ng/l							QC-2
Atenolol	3.33	1.0	ng/l							B, QC-2
Atorvastatin	ND	1.0	ng/l							QC-2
Azithromycin	ND	10	ng/l							QC-2
Caffeine	ND	1.0	ng/l							QC-2
Carbamazepine	ND	1.0	ng/l							QC-2
Ciprofloxacin	6.88	5.0	ng/l							B-06, QC-2
Cotinine	ND	2.0	ng/l							QC-2
DEET	ND	1.0	ng/l							QC-2
Diazepam	ND	1.0	ng/l							QC-2
Fluoxetine	2.12	1.0	ng/l							B, QC-2
Galaxolide (HHCB)	13.1	10	ng/l							B, QC-2
Meprobamate	ND	1.0	ng/l							QC-2
Methadone	ND	1.0	ng/l							QC-2
Oxybenzone	1.24	1.0	ng/l							B, QC-2
Praziquantel	ND	1.0	ng/l							QC-2
Primidone	ND	1.0	ng/l							QC-2
Quinoline	ND	1.0	ng/l							QC-2
Sucralose	ND	5.0	ng/l							QC-2
Sulfamethoxazole	ND	1.0	ng/l							QC-2
T CPP	2.71	2.0	ng/l							B, QC-2
TDCPP	6.07	1.0	ng/l							B, QC-2
Trimethoprim	ND	1.0	ng/l							QC-2
LCS (W8E0499-BS1)				Prepared: 05/09/18 Analyzed: 06/15/18						
Phenytoin (Dilantin)	11.3	1.0	ng/l	10.0		113	69-138			
TCEP	8.13	1.0	ng/l	10.0		81	25-149			



WECK LABORATORIES, INC.

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FINAL REPORT

Quality Control Results

(Continued)

PPCPs - Pharmaceuticals by LC/MSMS-ESI+ (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8E0499 - EPA 3535/SPE (Continued)										
LCS (W8E0499-BS2)				Prepared: 05/09/18 Analyzed: 06/18/18						
Acetaminophen	189	20	ng/l	200		94	66-156			QC-2
Amoxicillin	114	10	ng/l	100		114	14-167			QC-2
Atenolol	18.8	1.0	ng/l	10.0		188	56-164			BS-04, QC-2
Atorvastatin	9.17	1.0	ng/l	10.0		92	0.1-173			QC-2
Azithromycin	79.5	10	ng/l	100		80	52-166			QC-2
Caffeine	10.2	1.0	ng/l	10.0		102	55-152			QC-2
Carbamazepine	8.17	1.0	ng/l	10.0		82	60-135			QC-2
Ciprofloxacin	43.3	5.0	ng/l	50.0		87	51-168			QC-2
Cotinine	10.7	2.0	ng/l	10.0		107	68-155			QC-2
DEET	9.44	1.0	ng/l	10.0		94	45-135			QC-2
Diazepam	9.07	1.0	ng/l	10.0		91	58-127			QC-2
Fluoxetine	7.17	1.0	ng/l	10.0		72	55-150			QC-2
Galaxolide (HHCB)	23.6	10	ng/l	50.0		47	50-150			BS-04, QC-2
Meprobamate	23.0	1.0	ng/l	10.0		230	11-166			BS-H, QC-2
Methadone	8.84	1.0	ng/l	10.0		88	62-137			QC-2
Oxybenzone	6.85	1.0	ng/l	10.0		68	50-150			QC-2
Praziquantel	11.1	1.0	ng/l	10.0		111	50-150			QC-2
Primidone	8.46	1.0	ng/l	10.0		85	54-147			QC-2
Quinoline	3.84	1.0	ng/l	10.0		38	50-150			QC-2, BS-04
Sucralose	49.1	5.0	ng/l	50.0		98	50-150			QC-2
Sulfamethoxazole	8.71	1.0	ng/l	10.0		87	60-133			QC-2
TCPP	8.48	2.0	ng/l	10.0		85	24-149			QC-2
TDCPP	13.9	1.0	ng/l	10.0		139	20-158			QC-2
Trimethoprim	9.85	1.0	ng/l	10.0		98	67-139			QC-2
LCS Dup (W8E0499-BSD1)				Prepared: 05/09/18 Analyzed: 06/15/18						
Phenytoin (Dilantin)	15.2	1.0	ng/l	10.0		152	69-138	29	30	BS-04
TCEP	13.2	1.0	ng/l	10.0		132	25-149	48	30	Q-12
LCS Dup (W8E0499-BSD2)				Prepared: 05/09/18 Analyzed: 06/18/18						
Acetaminophen	215	20	ng/l	200		108	66-156	13	30	QC-2
Amoxicillin	128	10	ng/l	100		128	14-167	12	30	QC-2
Atenolol	10.3	1.0	ng/l	10.0		103	56-164	58	30	A-01, QC-2
Atorvastatin	6.45	1.0	ng/l	10.0		64	0.1-173	35	30	Q-12, QC-2
Azithromycin	104	10	ng/l	100		104	52-166	27	30	QC-2
Caffeine	10.8	1.0	ng/l	10.0		108	55-152	6	30	QC-2
Carbamazepine	13.7	1.0	ng/l	10.0		137	60-135	51	30	BS-04, QC-2
Ciprofloxacin	49.9	5.0	ng/l	50.0		100	51-168	14	30	QC-2
Cotinine	11.0	2.0	ng/l	10.0		110	68-155	3	30	QC-2
DEET	12.3	1.0	ng/l	10.0		123	45-135	26	30	QC-2
Diazepam	11.2	1.0	ng/l	10.0		112	58-127	21	30	QC-2



WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Quality Control Results

(Continued)

PPCPs - Pharmaceuticals by LC/MSMS-ESI+ (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8E0499 - EPA 3535/SPE (Continued)										
LCS Dup (W8E0499-BSD2)				Prepared: 05/09/18 Analyzed: 06/18/18						
Fluoxetine	10.2	1.0	ng/l	10.0	102	55-150	35	30		Q-12, QC-2
Galaxolide (HHCB)	56.3	10	ng/l	50.0	113	50-150	82	30		A-01, QC-2
Meprobamate	21.1	1.0	ng/l	10.0	211	11-166	9	30		BS-H, QC-2
Methadone	9.70	1.0	ng/l	10.0	97	62-137	9	30		QC-2
Oxybenzone	11.4	1.0	ng/l	10.0	114	50-150	50	30		Q-12, QC-2
Praziquantel	17.1	1.0	ng/l	10.0	171	50-150	43	30		QC-2, BS-04
Primidone	9.82	1.0	ng/l	10.0	98	54-147	15	30		QC-2
Quinoline	9.72	1.0	ng/l	10.0	97	50-150	87	30		A-01, QC-2
Sucralose	74.9	5.0	ng/l	50.0	150	50-150	42	30		Q-12, QC-2
Sulfamethoxazole	9.47	1.0	ng/l	10.0	95	60-133	8	30		QC-2
TCPP	12.4	2.0	ng/l	10.0	124	24-149	38	30		Q-12, QC-2
TDCPP	16.0	1.0	ng/l	10.0	160	20-158	14	30		BS-04, QC-2
Trimethoprim	11.0	1.0	ng/l	10.0	110	67-139	11	30		QC-2



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Quality Control Results

(Continued)

PPCPs - Pharmaceuticals by LC/MSMS-ESI-

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W8E0497 - EPA 3535/SPE										
Blank (W8E0497-BLK1)				Prepared: 05/09/18 Analyzed: 05/23/18						
Triclosan	ND	2.0	ng/l							
Blank (W8E0497-BLK2)				Prepared: 05/09/18 Analyzed: 05/24/18						
Bisphenol A	1.11	1.0	ng/l							B, QC-2
Diclofenac	ND	1.0	ng/l							QC-2
Gemfibrozil	ND	1.0	ng/l							QC-2
Ibuprofen	ND	1.0	ng/l							QC-2
Iopromide	ND	5.0	ng/l							QC-2
Naproxen	ND	1.0	ng/l							QC-2
Salicylic Acid	ND	50	ng/l							QC-2
Triclosan	ND	2.0	ng/l							QC-2
LCS (W8E0497-BS1)				Prepared: 05/09/18 Analyzed: 05/23/18						
Triclosan	8.84	2.0	ng/l	10.0		88	76-139			
LCS (W8E0497-BS2)				Prepared: 05/09/18 Analyzed: 05/25/18						
Bisphenol A	11.3	1.0	ng/l	10.0		113	53-168			QC-2
Diclofenac	11.2	1.0	ng/l	10.0		112	37-218			QC-2
Gemfibrozil	10.6	1.0	ng/l	10.0		106	76-122			QC-2
Ibuprofen	11.9	1.0	ng/l	10.0		119	67-139			QC-2
Iopromide	57.4	5.0	ng/l	50.0		115	0.1-163			QC-2
Naproxen	8.95	1.0	ng/l	10.0		90	64-138			QC-2
Salicylic Acid	146	50	ng/l	100		146	56-229			QC-2
Triclosan	11.6	2.0	ng/l	10.0		116	76-139			QC-2
LCS Dup (W8E0497-BSD1)				Prepared: 05/09/18 Analyzed: 05/23/18						
Triclosan	11.0	2.0	ng/l	10.0		110	76-139	22	30	
LCS Dup (W8E0497-BSD2)				Prepared: 05/09/18 Analyzed: 05/24/18						
Bisphenol A	10.8	1.0	ng/l	10.0		108	53-168	5	30	QC-2
Diclofenac	11.5	1.0	ng/l	10.0		115	37-218	3	30	QC-2
Gemfibrozil	9.50	1.0	ng/l	10.0		95	76-122	11	30	QC-2
Ibuprofen	10.1	1.0	ng/l	10.0		101	67-139	16	30	QC-2
Iopromide	63.8	5.0	ng/l	50.0		128	0.1-163	11	30	QC-2
Naproxen	4.84	1.0	ng/l	10.0		48	64-138	60	30	BS-04, QC-2
Salicylic Acid	98.4	50	ng/l	100		98	56-229	39	30	Q-12, QC-2
Triclosan	10.1	2.0	ng/l	10.0		101	76-139	14	30	QC-2



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Quality Control Results

(Continued)

PPCPs - Hormones by LC/MSMS-APCI

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W8E0498 - EPA 3535/SPE										
Blank (W8E0498-BLK1)				Prepared: 05/09/18 Analyzed: 06/13/18						
17-a-Estradiol	ND	1.0	ng/l							
17-a-Ethynylestradiol	ND	1.0	ng/l							
17-b-Estradiol	ND	1.0	ng/l							
Diethylstilbestrol	ND	1.0	ng/l							
Epitestosterone	ND	1.0	ng/l							
Estriol	ND	5.0	ng/l							
Estrone	ND	1.0	ng/l							
Progesterone	ND	1.0	ng/l							
Testosterone	ND	1.0	ng/l							
LCS (W8E0498-BS1)				Prepared: 05/09/18 Analyzed: 06/13/18						
17-a-Estradiol	12.6	1.0	ng/l	10.0		126	50-150			
17-a-Ethynylestradiol	10.6	1.0	ng/l	10.0		106	68-159			
17-b-Estradiol	8.41	1.0	ng/l	10.0		84	65-146			
Diethylstilbestrol	9.82	1.0	ng/l	10.0		98	50-150			
Epitestosterone	13.8	1.0	ng/l	10.0		138	50-150			
Estriol	13.5	5.0	ng/l	10.0		135	50-150			
Estrone	10.2	1.0	ng/l	10.0		102	59-141			
Progesterone	9.80	1.0	ng/l	10.0		98	58-154			
Testosterone	14.7	1.0	ng/l	10.0		147	60-172			
LCS Dup (W8E0498-BSD1)				Prepared: 05/09/18 Analyzed: 06/13/18						
17-a-Estradiol	9.90	1.0	ng/l	10.0		99	50-150	24	30	
17-a-Ethynylestradiol	10.3	1.0	ng/l	10.0		103	68-159	3	30	
17-b-Estradiol	10.9	1.0	ng/l	10.0		109	65-146	26	30	
Diethylstilbestrol	3.17	1.0	ng/l	10.0		32	50-150	102	30	BS-04
Epitestosterone	10.6	1.0	ng/l	10.0		106	50-150	26	30	
Estriol	13.9	5.0	ng/l	10.0		139	50-150	3	30	
Estrone	8.50	1.0	ng/l	10.0		85	59-141	18	30	
Progesterone	8.58	1.0	ng/l	10.0		86	58-154	13	30	
Testosterone	11.0	1.0	ng/l	10.0		110	60-172	29	30	



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Quality Control Results

(Continued)

PPCPs - by GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8E0197 - EPA 3510/L-L SF										
Blank (W8E0197-BLK1)				Prepared: 05/03/18 Analyzed: 05/15/18						
4-Nonylphenol	ND	25	ng/l							
4-Octylphenol	ND	25	ng/l							
4-tert-Octylphenol	ND	5.0	ng/l							
4-tert-Octylphenol diethoxylate	ND	25	ng/l							
4-tert-Octylphenol monoethoxylate	ND	25	ng/l							
Nonylphenol	ND	25	ng/l							
Nonylphenol diethoxylate	ND	100	ng/l							
Nonylphenol monoethoxylate	ND	50	ng/l							
<i>Surrogate(s)</i>										
4-Nonylphenol-d4		274	ng/l	250		109	50-150			
LCS (W8E0197-BS1)				Prepared: 05/03/18 Analyzed: 05/15/18						
4-Nonylphenol	179	25	ng/l	200		90	50-150			
4-Octylphenol	184	25	ng/l	200		92	50-150			
4-tert-Octylphenol	177	5.0	ng/l	200		89	50-150			
4-tert-Octylphenol diethoxylate	163	25	ng/l	200		81	50-150			
4-tert-Octylphenol monoethoxylate	181	25	ng/l	200		90	50-150			
Nonylphenol	188	25	ng/l	200		94	50-150			
Nonylphenol diethoxylate	218	100	ng/l	200		109	50-150			
Nonylphenol monoethoxylate	201	50	ng/l	200		100	50-150			
<i>Surrogate(s)</i>										
4-Nonylphenol-d4		231	ng/l	250		92	50-150			
LCS Dup (W8E0197-BSD1)				Prepared: 05/03/18 Analyzed: 05/15/18						
4-Nonylphenol	204	25	ng/l	200		102	50-150	13	30	
4-Octylphenol	207	25	ng/l	200		103	50-150	12	30	
4-tert-Octylphenol	203	5.0	ng/l	200		101	50-150	14	30	
4-tert-Octylphenol diethoxylate	202	25	ng/l	200		101	50-150	21	30	
4-tert-Octylphenol monoethoxylate	209	25	ng/l	200		105	50-150	15	30	
Nonylphenol	217	25	ng/l	200		108	50-150	14	30	
Nonylphenol diethoxylate	197	100	ng/l	200		98	50-150	10	30	
Nonylphenol monoethoxylate	219	50	ng/l	200		110	50-150	9	30	
<i>Surrogate(s)</i>										
4-Nonylphenol-d4		267	ng/l	250		107	50-150			



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Quality Control Results

(Continued)

Urea Pesticides and Degradates by LCMS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8D1739 - Direct Injection										
Blank (W8D1739-BLK1)				Prepared & Analyzed: 04/30/18						
Diuron	ND	1.0	ug/l							
LCS (W8D1739-BS1)				Prepared & Analyzed: 04/30/18						
Diuron	5.41	1.0	ug/l	5.00		108	70-130			
Matrix Spike (W8D1739-MS1)				Prepared & Analyzed: 04/30/18						
	Source: 8D25108-02									
Diuron	5.16	1.0	ug/l	5.00	0.310	97	50-150			
Matrix Spike Dup (W8D1739-MSD1)				Prepared & Analyzed: 04/30/18						
	Source: 8D25108-02									
Diuron	6.80	1.0	ug/l	5.00	0.310	130	50-150	27	30	



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Notes and Definitions

Item	Definition
A-01	BS/BSD failed RPD criteria and was accepted based upon the BSD.
B	Blank contamination. The analyte was found in the associated blank as well as in the sample.
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
BS-04	The recovery of this analyte in LCS or LCSD was outside control limit. Sample was accepted based on the remaining LCS, LCSD or LCS-LL.
BS-H	The recovery of this analyte in the BS/LCS was over the control limit. Sample result is suspect.
E-01	The concentration indicated for this analyte is an estimated value above the calibration range.
I-05	Low internal standard recovery possibly due to matrix interference. The result is suspect.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
ASTM D7065 in Water		
4-Nonylphenol	104-40-5	NELAP
4-Octylphenol	1806-26-4	NELAP
4-tert-Octylphenol	140-66-9	NELAP
4-tert-Octylphenol diethoxylate		NELAP
4-tert-Octylphenol monoethoxylate		NELAP
Nonylphenol	25154-52-3	NELAP
Nonylphenol diethoxylate	20427-84-3	NELAP
Nonylphenol monoethoxylate	27986-36-3	NELAP
4-Nonylphenol-d4	358730-95-7	NELAP
EPA 532M in Water		
Diuron	330-54-1	NELAP
LC/MS/MS in Water		
Iohexol	66108-95-0	NELAP



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FINAL REPORT

Reviewed by:

Regina Giancola

Regina Giancola
Project Manager



DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 •
LACSD #10143 • NELAP-CA #04229CA • NELAP-OR #4047 • NJ-DEP #CA015

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.