

Work Orders: 6L16010

Project: Irwindale SW Outfall Monitoring

Attn: Ed Suher

Client: AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Report Date: 1/26/2017

Received Date: 12/16/2016

Turnaround Time: Normal

Phones: (818) 841-9004

Fax: (818) 841-8013

P.O. #:

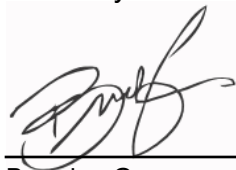
ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC
445A

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.

Dear Ed Suher,

Enclosed are the results of analyses for samples received 12/16/16 with the Chain-of-Custody document. The samples were received in good condition, at 7.9 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Brandon Gee
Operations Manager/Senior PM





WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Summary

Sample ID	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
SGR-077	ES/ RS	6L16010-01	Water	12/16/16 04:30	
LL Hg Field Blank	ES/ RS	6L16010-02	Water	12/16/16 00:00	
SAWPW-074A	ES/ RS	6L16010-03	Water	12/16/16 05:30	
LL Hg Field Blank	ES/ RS	6L16010-04	Water	12/16/16 00:00	
BDW-027A	ES/ RS	6L16010-05	Water	12/16/16 06:00	
LL Hg Field Blank	ES/ RS	6L16010-06	Water	12/16/16 00:00	

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
Enterolert in Water		
Enterococcus		NELAP
GC/MS/MS in Water		
PCB-8	34883-43-7	NELAP
PCB-18	37680-65-2	NELAP
PCB-28	7012-37-5	NELAP
PCB-44	41464-39-5	NELAP
PCB-52	35693-99-3	NELAP
PCB-66	32598-10-0	NELAP
PCB-77	32598-13-3	NELAP
PCB-81	70362-50-4	NELAP
PCB-101	37680-73-2	NELAP
PCB-105	32598-14-4	NELAP
PCB-114	74472-37-0	NELAP
PCB-118	31508-00-6	NELAP
PCB-123	65510-44-3	NELAP
PCB-126	57465-28-8	NELAP
PCB-128	38380-07-3	NELAP
PCB-138	35065-28-2	NELAP
PCB-153	35065-27-1	NELAP
Naphthalene	91-20-3	NELAP
PCB-156	38380-08-4	NELAP
PCB-157	69782-90-7	NELAP
PCB-167	52663-72-6	NELAP
PCB-169	32774-16-6	NELAP
PCB-170	35065-30-6	NELAP
PCB-180	35065-29-3	NELAP
Acenaphthylene	208-96-8	NELAP
PCB-187	52663-68-0	NELAP
Acenaphthene	83-32-9	NELAP
PCB-189	39635-31-9	NELAP
Fluorene	86-73-7	NELAP
PCB-195	52663-78-2	NELAP
PCB-206	40186-72-9	NELAP
Phenanthrene	85-01-8	NELAP
Anthracene	120-12-7	NELAP
PCB-209	2051-24-3	NELAP
PCB-3	2051-62-9	NELAP

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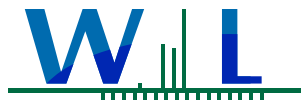
Project Manager: Ed Suher

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01/26/2017 08:50

Not Certified Analyses Summary

(Continued)

Analyte	CAS #	Not Accredited By
GC/MS/MS in Water (Continued)		
Fluoranthene	206-44-0	NELAP
PCB-31	16606-02-3	NELAP
PCB-33	38444-86-9	NELAP
Pyrene	129-00-0	NELAP
Benzo (a) anthracene	56-55-3	NELAP
PCB-37	38444-90-5	NELAP
Chrysene	218-01-9	NELAP
PCB-49	41464-40-8	NELAP
Benzo (b) fluoranthene	205-99-2	NELAP
PCB-56	41464-43-1	NELAP
Benzo (k) fluoranthene	207-08-9	NELAP
PCB-60	33025-41-1	NELAP
PCB-70	32598-11-1	NELAP
Benzo (a) pyrene	50-32-8	NELAP
PCB-74	32690-93-0	NELAP
PCB-87	38380-02-8	NELAP
Indeno (1,2,3-cd) pyrene	193-39-5	NELAP
PCB-95	38379-99-6	NELAP
Dibenzo (a,h) anthracene	53-70-3	NELAP
PCB-97	41464-51-1	NELAP
Benzo (g,h,i) perylene	191-24-2	NELAP
PCB-99	38380-01-7	NELAP
PCB-110	38380-03-9	NELAP
PCB-119	56558-17-9	NELAP
PCB-132	38380-05-1	NELAP
PCB-203	52663-76-0	NELAP
PCB-201	52663-75-9	NELAP
PCB-200	52663-73-7	NELAP
PCB-194	35694-08-7	NELAP
PCB-183	52663-69-1	NELAP
PCB-177	52663-70-4	NELAP
PCB-174	38411-25-5	NELAP
PCB-168	59291-65-5	NELAP
PCB-158	74472-42-7	NELAP
PCB-151	52663-63-5	NELAP
PCB-149	38380-04-0	NELAP
PCB-141	52712-04-6	NELAP
1,3-Dimethyl-2-nitrobenzene	81-20-9	NELAP
Triphenyl phosphate	115-86-6	NELAP
1,3-Dimethyl-2-nitrobenzene	81-20-9	NELAP
Perylene-d12	1520-96-3	NELAP
SM 9221B in Water		
Total Coliform		NELAP
SM 9221E in Water		
Fecal Coliform		NELAP
SM 9221F in Water		



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Not Certified Analyses Summary

(Continued)

Analyte	CAS #	Not Accredited By
SM 9221F in Water (Continued)		
E. coli		NELAP



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Sample Results

Sample: SGR-077

Sampled: 12/16/16 4:30 by ES/ RS

6L16010-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by EPA Method 625						
Method: EPA 625	Batch ID: W6L1921	Prepared: 12/19/16 09:27			Analyst: etn	
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	12/28/16 09:02	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	12/28/16 09:02	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	12/28/16 09:02	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	12/28/16 09:02	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	12/28/16 09:02	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	12/28/16 09:02	
2,4-Dichlorophenol	ND	1.0	ug/l	1	12/28/16 09:02	
2,4-Dimethylphenol	ND	1.0	ug/l	1	12/28/16 09:02	
2,4-Dinitrophenol	ND	5.0	ug/l	1	12/28/16 09:02	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	12/28/16 09:02	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	12/28/16 09:02	
2-Chloronaphthalene	ND	1.0	ug/l	1	12/28/16 09:02	
2-Chlorophenol	ND	1.0	ug/l	1	12/28/16 09:02	
2-Nitrophenol	ND	1.0	ug/l	1	12/28/16 09:02	
3,3'-Dichlorobenzidine	ND	5.0	ug/l	1	12/28/16 09:02	
4,6-Dinitro-2-methylphenol	ND	5.0	ug/l	1	12/28/16 09:02	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	12/28/16 09:02	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	12/28/16 09:02	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	12/28/16 09:02	
4-Nitrophenol	ND	5.0	ug/l	1	12/28/16 09:02	
Acenaphthene	ND	1.0	ug/l	1	12/28/16 09:02	
Acenaphthylene	ND	1.0	ug/l	1	12/28/16 09:02	
Anthracene	ND	1.0	ug/l	1	12/28/16 09:02	
Benzidine	ND	5.0	ug/l	1	12/28/16 09:02	
Benzo (a) anthracene	ND	1.0	ug/l	1	12/28/16 09:02	
Benzo (a) pyrene	ND	1.0	ug/l	1	12/28/16 09:02	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	12/28/16 09:02	
Benzo (g,h,i) perylene	ND	2.0	ug/l	1	12/28/16 09:02	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	12/28/16 09:02	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	12/28/16 09:02	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	12/28/16 09:02	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	12/28/16 09:02	
Bis(2-ethylhexyl)phthalate	120	50	ug/l	10	01/05/17 02:05	
Butyl benzyl phthalate	ND	1.0	ug/l	1	12/28/16 09:02	
Chrysene	ND	1.0	ug/l	1	12/28/16 09:02	
Dibenzo (a,h) anthracene	ND	2.0	ug/l	1	12/28/16 09:02	



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Sample Results

(Continued)

Sample: SGR-077

Sampled: 12/16/16 4:30 by ES/ RS

6L16010-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by EPA Method 625 (Continued)						
Diethyl phthalate	ND	1.0	ug/l	1	12/28/16 09:02	
Dimethyl phthalate	ND	1.0	ug/l	1	12/28/16 09:02	
Di-n-butyl phthalate	ND	1.0	ug/l	1	12/28/16 09:02	
Di-n-octyl phthalate	ND	1.0	ug/l	1	12/28/16 09:02	
Fluoranthene	ND	1.0	ug/l	1	12/28/16 09:02	
Fluorene	ND	1.0	ug/l	1	12/28/16 09:02	
Hexachlorobenzene	ND	1.0	ug/l	1	12/28/16 09:02	
Hexachlorobutadiene	ND	1.0	ug/l	1	12/28/16 09:02	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	12/28/16 09:02	
Hexachloroethane	ND	1.0	ug/l	1	12/28/16 09:02	
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l	1	12/28/16 09:02	
Isophorone	ND	1.0	ug/l	1	12/28/16 09:02	
Naphthalene	ND	1.0	ug/l	1	12/28/16 09:02	
Nitrobenzene	ND	1.0	ug/l	1	12/28/16 09:02	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	12/28/16 09:02	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	12/28/16 09:02	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	12/28/16 09:02	
Pentachlorophenol	ND	1.0	ug/l	1	12/28/16 09:02	
Phenanthrene	ND	1.0	ug/l	1	12/28/16 09:02	
Phenol	ND	1.0	ug/l	1	12/28/16 09:02	
Pyrene	ND	1.0	ug/l	1	12/28/16 09:02	
<i>Surrogate(s)</i>						
2,4,6-Tribromophenol	77% Conc: 38.6	25-102			12/28/16 09:02	
2-Fluorobiphenyl	71% Conc: 17.7	22-107			12/28/16 09:02	
2-Fluorophenol	43% Conc: 21.7	3-74			12/28/16 09:02	
Nitrobenzene-d5	67% Conc: 16.7	27-111			12/28/16 09:02	
Phenol-d5	31% Conc: 15.3	0.1-53			12/28/16 09:02	
Terphenyl-d14	71% Conc: 17.7	28-113			12/28/16 09:02	

Anions by IC, EPA Method 300.0

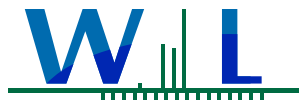
Method: EPA 300.0	Batch ID: W6L2385	Prepared: 12/27/16 12:21	Analyst: aep			
Chloride, Total	ND	0.50 mg/l	1	12/27/16 13:02		
Fluoride, Total	ND	0.10 mg/l	1	12/27/16 13:02		
Sulfate as SO4	0.51	0.50 mg/l	1	12/27/16 13:02		

Chlorinated Herbicides

Method: EPA 515.3	Batch ID: W6L1945	Prepared: 12/19/16 11:10	Analyst: rmr			
2,4,5-T	ND	0.20 ug/l	1	12/30/16 20:58		
2,4,5-TP (Silvex)	ND	0.20 ug/l	1	12/30/16 20:58		
2,4-D	ND	0.40 ug/l	1	12/30/16 20:58		

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(Continued)

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6L16010-01 (Water)

(Continued)

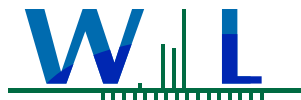
Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Herbicides (Continued)						
2,4-DB	ND	2.0	ug/l	1	12/30/16 20:58	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/30/16 20:58	
Acifluorfen	ND	0.40	ug/l	1	12/30/16 20:58	
Bentazon	ND	2.0	ug/l	1	12/30/16 20:58	
Dalapon	ND	0.40	ug/l	1	12/30/16 20:58	
DCPA	ND	0.10	ug/l	1	12/30/16 20:58	
Dicamba	ND	0.60	ug/l	1	12/30/16 20:58	
Dichloroprop	ND	0.30	ug/l	1	12/30/16 20:58	
Dinoseb	ND	0.40	ug/l	1	12/30/16 20:58	
Pentachlorophenol	ND	0.20	ug/l	1	12/30/16 20:58	
Picloram	ND	0.60	ug/l	1	12/30/16 20:58	
<i>Surrogate(s)</i>						
2,4-DCAA	101%	Conc: 10.1	70-130		12/30/16 20:58	

Chlorinated Pesticides and/or PCBs

Method: EPA 608	Batch ID: W6L2016	Prepared: 12/21/16 09:38			Analyst: rmr	
2,4'-DDD	ND	25	ng/l	5	01/07/17 01:42	M-04
2,4'-DDE	ND	25	ng/l	5	01/07/17 01:42	M-04
2,4'-DDT	ND	25	ng/l	5	01/07/17 01:42	M-04
4,4'-DDD	ND	25	ng/l	5	01/07/17 01:42	M-04
4,4'-DDE	ND	25	ng/l	5	01/07/17 01:42	M-04
4,4'-DDT	ND	25	ng/l	5	01/07/17 01:42	M-04
Aldrin	ND	25	ng/l	5	01/07/17 01:42	M-04
alpha-BHC	ND	25	ng/l	5	01/07/17 01:42	M-04
alpha-Chlordane	ND	25	ng/l	5	01/07/17 01:42	M-04
Aroclor 1016	ND	500	ng/l	5	01/07/17 01:42	M-04
Aroclor 1221	ND	500	ng/l	5	01/07/17 01:42	M-04
Aroclor 1232	ND	500	ng/l	5	01/07/17 01:42	M-04
Aroclor 1242	ND	500	ng/l	5	01/07/17 01:42	M-04
Aroclor 1248	ND	500	ng/l	5	01/07/17 01:42	M-04
Aroclor 1254	ND	500	ng/l	5	01/07/17 01:42	M-04
Aroclor 1260	ND	500	ng/l	5	01/07/17 01:42	M-04
beta-BHC	ND	25	ng/l	5	01/07/17 01:42	M-04
Chlordane (tech)	ND	500	ng/l	5	01/07/17 01:42	M-04
cis-Nonachlor	ND	25	ng/l	5	01/07/17 01:42	M-04
delta-BHC	ND	25	ng/l	5	01/07/17 01:42	M-04
Dieldrin	ND	25	ng/l	5	01/07/17 01:42	M-04
Endosulfan I	ND	25	ng/l	5	01/07/17 01:42	M-04
Endosulfan II	ND	25	ng/l	5	01/07/17 01:42	M-04

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(Continued)

Sample: SGR-077

Sampled: 12/16/16 4:30 by ES/ RS

6L16010-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs (Continued)						
Endosulfan sulfate	ND	25	ng/l	5	01/07/17 01:42	M-04
Endrin	ND	25	ng/l	5	01/07/17 01:42	M-04
Endrin aldehyde	ND	25	ng/l	5	01/07/17 01:42	M-04
gamma-BHC (Lindane)	ND	25	ng/l	5	01/07/17 01:42	M-04
gamma-Chlordane	ND	25	ng/l	5	01/07/17 01:42	M-04
Heptachlor	ND	25	ng/l	5	01/07/17 01:42	M-04
Heptachlor epoxide	ND	25	ng/l	5	01/07/17 01:42	M-04
Methoxychlor	ND	25	ng/l	5	01/07/17 01:42	M-04
Mirex	ND	25	ng/l	5	01/07/17 01:42	M-04
Toxaphene	ND	2500	ng/l	5	01/07/17 01:42	M-04
trans-Nonachlor	ND	25	ng/l	5	01/07/17 01:42	M-04
<i>Surrogate(s)</i>						
Decachlorobiphenyl	60% Conc: 60.3	0.1-118			01/07/17 01:42	M-04
Tetrachloro-meta-xylene	72% Conc: 72.1	12-117			01/07/17 01:42	M-04

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: ASTM D7511	Batch ID: W6L2378	Prepared: 12/27/16 10:25		Analyst: mbc
Cyanide, Total	ND	2.0 ug/l	1	12/27/16 15:43
Method: EPA 160.4	Batch ID: W6L2146	Prepared: 12/21/16 15:54		Analyst: ajk
Volatile Suspended Solids	17	5.0 mg/l	1	12/21/16 17:00
Method: EPA 1664A	Batch ID: W7A1354	Prepared: 01/05/17 08:52		Analyst: joh
Oil & Grease (HEM)	ND	5.0 mg/l	1	01/05/17 16:54
Method: EPA 180.1	Batch ID: W6L1887	Prepared: 12/17/16 11:04		Analyst: dmn
Turbidity	5.1	0.10 NTU	1	12/17/16 14:46
Method: EPA 350.1	Batch ID: W6L2319	Prepared: 12/23/16 13:48		Analyst: mnq
Ammonia as N	0.11	0.10 mg/l	1	12/28/16 14:48
Method: EPA 351.2	Batch ID: W6L1957	Prepared: 12/19/16 13:23		Analyst: ymt
TKN	0.67	0.10 mg/l	1	12/21/16 19:27
Method: EPA 353.2	Batch ID: W6L2006	Prepared: 12/20/16 09:12		Analyst: AJK
NO2+NO3 as N	120	100 ug/l	1	12/20/16 11:36
Method: EPA 365.1	Batch ID: W6L1970	Prepared: 12/19/16 14:05		Analyst: nat
Phosphorus as P, Total	0.30	0.020 mg/l	2	12/22/16 12:56
Method: EPA 365.3	Batch ID: W6L2346	Prepared: 12/24/16 09:41		Analyst: dmn
Phosphorus, Dissolved	0.046	0.010 mg/l	1	12/30/16 12:42
Method: EPA 410.4	Batch ID: W6L2318	Prepared: 12/23/16 13:41		Analyst: mnq
Chemical Oxygen Demand	47	5.0 mg/l	1	12/30/16 10:52
Method: EPA 420.4	Batch ID: W6L2004	Prepared: 12/20/16 09:09		Analyst: AJK
Phenolics	ND	0.010 mg/l	1	12/28/16 11:08
Method: SM 2320B	Batch ID: W6L2381	Prepared: 12/27/16 11:02		Analyst: dmn

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Sample: SGR-077

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6L16010-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Alkalinity as CaCO ₃	11	2.0	mg/l	1	12/28/16 13:30	
Method: SM 2510B	Batch ID: W6L2026	Prepared: 12/20/16 11:12				Analyst: dmn
Specific Conductance (EC)	16	2.0	umhos/cm	1	12/20/16 14:23	
Method: SM 2540C	Batch ID: W6L1905	Prepared: 12/18/16 08:20				Analyst: ymt
Total Dissolved Solids	20	10	mg/l	1	12/20/16 19:20	
Method: SM 2540D	Batch ID: W6L2145	Prepared: 12/21/16 15:56				Analyst: ajk
Total Suspended Solids	99	5	mg/l	1	12/21/16 17:00	
Method: SM 4500O-G	Batch ID: W6L1859	Prepared: 12/16/16 17:03				Analyst: mnq
Dissolved Oxygen	9.88	1.00	mg/l	1	12/16/16 17:53	*
Method: SM 5210B	Batch ID: W6L1835	Prepared: 12/16/16 12:44				Analyst: mnq
Biochemical Oxygen Demand	2.7	2.0	mg/l	1	12/21/16 18:12	
Method: SM 5310C	Batch ID: W6L2133	Prepared: 12/21/16 12:36				Analyst: jlp
Total Organic Carbon (TOC)	1.6	0.30	mg/l	1	12/21/16 15:27	
Method: SM 5540C	Batch ID: W6L1880	Prepared: 12/17/16 09:04				Analyst: nat
MBAS	ND	0.050	mg/l	1	12/17/16 13:26	
Glyphosate by EPA 547						
Method: EPA 547	Batch ID: W6L1922	Prepared: 12/19/16 09:28				Analyst: pjs
Glyphosate	ND	5.0	ug/l	1	12/19/16 16:47	
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W6L2448	Prepared: 12/27/16 19:13				Analyst: blg
Chromium 6+	0.12	0.020	ug/l	1	12/28/16 08:00	
Method: EPA 218.6	Batch ID: W6L2644	Prepared: 12/30/16 00:00				Analyst: blg
Chromium 6+, Dissolved	0.10	0.020	ug/l	1	12/30/16 00:30	
Hydrocarbons by EPA 8015D						
Method: EPA 8015D	Batch ID: W6L1924	Prepared: 12/19/16 09:35				Analyst: cam
Diesel Range Organics	0.33	0.10	mg/l	1	12/23/16 01:03	
Oil Range Organics	ND	0.50	mg/l	1	12/23/16 01:03	
Surrogate(s)						
n-Tetracosane	113% Conc: 0.282	64-155			12/23/16 01:03	
Method: EPA 8015D	Batch ID: W6L2033	Prepared: 12/20/16 11:42				Analyst: mtn
Gasoline Range Organics	ND	0.10	mg/l	1	12/20/16 20:58	
Surrogate(s)						
4-Bromofluorobenzene	94% Conc: 0.0470	72-124			12/20/16 20:58	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	Batch ID: W6L2537	Prepared: 12/16/16 16:39				Analyst: gza
Mercury, Dissolved	2.1	0.50	ng/l	1	12/29/16 14:19	
Mercury, Total	8.5	0.50	ng/l	1	12/29/16 14:19	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	Batch ID: [CALC]	Prepared: 01/03/17 10:37				Analyst: JCK

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AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SGR-077

Sampled: 12/16/16 4:30 by ES/ RS

6L16010-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Calcium Hardness as CaCO3	10.3	0.250	mg/l	1	01/04/17 16:24	
Method: EPA 200.7	Batch ID: W7A1202	Prepared: 01/03/17 10:37				Analyst: JCK
Calcium, Total	4.14	0.100	mg/l	1	01/04/17 16:24	
Method: EPA 200.8	Batch ID: W6L2423	Prepared: 12/27/16 15:57				Analyst: rrl
Aluminum, Dissolved	17	5.0	ug/l	1	01/04/17 18:28	
Aluminum, Total	1600	5.0	ug/l	1	01/04/17 18:32	
Antimony, Dissolved	1.0	0.50	ug/l	1	01/04/17 18:28	
Antimony, Total	2.9	0.50	ug/l	1	01/04/17 18:32	
Arsenic, Dissolved	ND	0.40	ug/l	1	01/04/17 18:28	
Arsenic, Total	0.82	0.40	ug/l	1	01/04/17 18:32	
Beryllium, Dissolved	ND	0.10	ug/l	1	01/04/17 18:28	
Beryllium, Total	ND	0.10	ug/l	1	01/04/17 18:32	
Cadmium, Dissolved	ND	0.10	ug/l	1	01/04/17 18:28	
Cadmium, Total	0.26	0.10	ug/l	1	01/04/17 18:32	
Chromium, Dissolved	ND	0.20	ug/l	1	01/04/17 18:28	
Chromium, Total	2.7	0.20	ug/l	1	01/04/17 18:32	
Copper, Dissolved	1.0	0.50	ug/l	1	01/04/17 18:28	
Copper, Total	22	0.50	ug/l	1	01/04/17 18:32	
Iron, Dissolved	ND	20	ug/l	1	01/04/17 18:28	
Iron, Total	2000	20	ug/l	1	01/04/17 18:32	
Lead, Dissolved	ND	0.20	ug/l	1	01/04/17 18:28	
Lead, Total	13	0.20	ug/l	1	01/04/17 18:32	
Nickel, Dissolved	ND	0.80	ug/l	1	01/04/17 18:28	
Nickel, Total	3.4	0.80	ug/l	1	01/04/17 18:32	
Selenium, Dissolved	ND	0.40	ug/l	1	01/04/17 18:28	
Selenium, Total	ND	0.40	ug/l	1	01/04/17 18:32	
Silver, Dissolved	ND	0.20	ug/l	1	01/04/17 18:28	
Silver, Total	ND	0.20	ug/l	1	01/04/17 18:32	
Thallium, Dissolved	ND	0.20	ug/l	1	01/04/17 18:28	
Thallium, Total	ND	0.20	ug/l	1	01/04/17 18:32	
Zinc, Dissolved	17	5.0	ug/l	1	01/04/17 18:28	
Zinc, Total	240	5.0	ug/l	1	01/04/17 18:32	
Microbiological Parameters by Standard Methods						
Method: Enterolert	Batch ID: W6L2172	Prepared: 12/16/16 12:25				Analyst: lil
Enterococcus	1700	10	MPN/100ml	10	12/17/16 13:35	
Method: SM 9221B	Batch ID: W6L2168	Prepared: 12/16/16 11:54				Analyst: lil
Total Coliform	16000	20	MPN/100ml	10	12/20/16 18:09	

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01/26/2017 08:50

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Sample Results

(Continued)

Sample: SGR-077

Sampled: 12/16/16 4:30 by ES/ RS

6L16010-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Microbiological Parameters by Standard Methods (Continued)

Method: SM 9221E	Batch ID: W6L2168	Prepared: 12/16/16 11:54	Analyst: lil
Fecal Coliform	2200	20 MPN/100ml	10 12/19/16 18:29

Method: SM 9221F	Batch ID: W6L2168	Prepared: 12/16/16 11:54	Analyst: lil
E. coli	2200	20 MPN/100ml	10 12/19/16 18:29

PCB Congener Screen by GCMS SIM

Method: GC/MS/MS	Batch ID: W6L2373	Prepared: 12/27/16 09:14	Analyst: EFC
PCB-101	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-105	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-110	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-114	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-118	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-119	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-123	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-126	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-128	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-132	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-138	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-141	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-149	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-151	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-153	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-156	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-157	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-158	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-167	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-168	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-169	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-170	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-174	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-177	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-18	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-180	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-183	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-187	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-189	ND	50 ng/l	5 12/29/16 21:44 M-04
PCB-194	ND	50 ng/l	5 12/30/16 05:05 M-04
PCB-195	ND	50 ng/l	5 12/29/16 21:44 M-04

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Sample Results

(Continued)

Sample: SGR-077

Sampled: 12/16/16 4:30 by ES/ RS

6L16010-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
PCB Congener Screen by GCMS SIM (Continued)						
PCB-200	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-201	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-203	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-206	ND	50	ng/l	5	12/29/16 21:44	M-04
PCB-209	ND	50	ng/l	5	12/29/16 21:44	M-04
PCB-28	ND	50	ng/l	5	12/29/16 21:44	M-04
PCB-3	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-31	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-33	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-37	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-44	ND	50	ng/l	5	12/29/16 21:44	M-04
PCB-49	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-52	ND	50	ng/l	5	12/29/16 21:44	M-04
PCB-56	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-60	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-66	ND	50	ng/l	5	12/29/16 21:44	M-04
PCB-70	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-74	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-77	ND	50	ng/l	5	12/29/16 21:44	M-04
PCB-8	ND	50	ng/l	5	12/29/16 21:44	M-04
PCB-81	ND	50	ng/l	5	12/29/16 21:44	M-04
PCB-87	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-95	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-97	ND	50	ng/l	5	12/30/16 05:05	M-04
PCB-99	ND	50	ng/l	5	12/30/16 05:05	M-04
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	84% Conc: 211	49-146			12/29/16 21:44	M-04
Triphenyl phosphate	105% Conc: 262	30-213			12/29/16 21:44	M-04

Perchlorate by EPA 314.0

Method: EPA 314.0	Batch ID: W6L2500	Prepared: 12/28/16 17:28	Analyst: blg
Perchlorate	ND	2.0 ug/l	1 12/28/16 19:28

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2	Batch ID: W6L2418	Prepared: 12/27/16 15:25	Analyst: etn
Alachlor	ND	0.10 ug/l	1 01/10/17 21:40
Atrazine	ND	0.10 ug/l	1 01/10/17 21:40
Bromacil	ND	0.50 ug/l	1 01/10/17 21:40
Butachlor	ND	0.10 ug/l	1 01/10/17 21:40
Chlorpropham	ND	0.10 ug/l	1 01/10/17 21:40

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Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SGR-077

Sampled: 12/16/16 4:30 by ES/ RS

6L16010-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Cyanazine	ND	0.10	ug/l	1	01/10/17 21:40	
Diazinon	ND	0.10	ug/l	1	01/10/17 21:40	
Dimethoate	ND	0.20	ug/l	1	01/10/17 21:40	
Diphenamid	ND	0.10	ug/l	1	01/10/17 21:40	
Disulfoton	ND	0.10	ug/l	1	01/10/17 21:40	
EPTC	ND	0.10	ug/l	1	01/10/17 21:40	
Metolachlor	ND	0.10	ug/l	1	01/10/17 21:40	
Metribuzin	ND	0.10	ug/l	1	01/10/17 21:40	
Molinate	ND	0.10	ug/l	1	01/10/17 21:40	
Prometon	ND	0.10	ug/l	1	01/10/17 21:40	
Prometryn	ND	0.10	ug/l	1	01/10/17 21:40	
Simazine	ND	0.10	ug/l	1	01/10/17 21:40	
Terbacil	ND	2.0	ug/l	1	01/10/17 21:40	
Thiobencarb	ND	0.10	ug/l	1	01/10/17 21:40	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	124% Conc: 6.22	73-138			01/10/17 21:40	
Perylene-d12	38% Conc: 1.89	30-118			01/10/17 21:40	
Triphenyl phosphate	103% Conc: 5.15	70-149			01/10/17 21:40	
Method: EPA 525.2						
Batch ID: W6L2524		Prepared: 12/29/16 08:35			Analyst: EFC	
Azinphos methyl (Guthion)	ND	10	ng/l	1	12/30/16 19:03	
Bolstar	ND	10	ng/l	1	12/30/16 19:03	
Chlorpyrifos	ND	10	ng/l	1	12/30/16 19:03	
Coumaphos	ND	10	ng/l	1	12/30/16 19:03	
Demeton-o	ND	10	ng/l	1	12/30/16 19:03	
Demeton-s	ND	10	ng/l	1	12/30/16 19:03	
Diazinon	ND	10	ng/l	1	12/30/16 19:03	
Dichlorvos	ND	10	ng/l	1	12/30/16 19:03	
Dimethoate	ND	10	ng/l	1	12/30/16 19:03	
Disulfoton	ND	10	ng/l	1	12/30/16 19:03	
Ethoprop	ND	10	ng/l	1	12/30/16 19:03	
Ethyl parathion	ND	10	ng/l	1	12/30/16 19:03	
Fensulfothion	ND	10	ng/l	1	12/30/16 19:03	
Fenthion	ND	10	ng/l	1	12/30/16 19:03	
Malathion	ND	10	ng/l	1	12/30/16 19:03	
Merphos	ND	10	ng/l	1	12/30/16 19:03	
Methyl parathion	ND	10	ng/l	1	12/30/16 19:03	
Mevinphos	ND	10	ng/l	1	12/30/16 19:03	
Naled	ND	10	ng/l	1	12/30/16 19:03	

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01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SGR-077

Sampled: 12/16/16 4:30 by ES/ RS

6L16010-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Phorate	ND	10	ng/l	1	12/30/16 19:03	
Ronnel	ND	10	ng/l	1	12/30/16 19:03	
Stirophos	ND	10	ng/l	1	12/30/16 19:03	
Tokuthion (Prothiofos)	ND	10	ng/l	1	12/30/16 19:03	
Trichloronate	ND	10	ng/l	1	12/30/16 19:03	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	92% Conc: 459	76-128			12/30/16 19:03	
Triphenyl phosphate	104% Conc: 518	40-163			12/30/16 19:03	

Semivolatile Organics - Low Level by Tandem GC/MS/MS

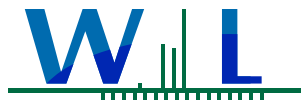
Method: GC/MS/MS	Batch ID: W6L2194	Prepared: 12/22/16 09:32	Analyst: EFC
Acenaphthene	ND	25 ng/l	1 12/28/16 21:14 M-02
Acenaphthylene	ND	25 ng/l	1 12/28/16 21:14 M-02
Anthracene	ND	25 ng/l	1 12/28/16 21:14 M-02
Benzo (a) anthracene	ND	25 ng/l	1 12/28/16 21:14 M-02
Benzo (a) pyrene	ND	25 ng/l	1 12/28/16 21:14 M-02
Benzo (b) fluoranthene	ND	25 ng/l	1 12/28/16 21:14 M-02
Benzo (g,h,i) perylene	ND	25 ng/l	1 12/28/16 21:14 M-02
Benzo (k) fluoranthene	ND	25 ng/l	1 12/28/16 21:14 M-02
Chrysene	ND	25 ng/l	1 12/28/16 21:14 M-02
Dibenzo (a,h) anthracene	ND	25 ng/l	1 12/28/16 21:14 M-02
Fluoranthene	ND	25 ng/l	1 12/28/16 21:14 M-02
Fluorene	ND	25 ng/l	1 12/28/16 21:14 M-02
Indeno (1,2,3-cd) pyrene	ND	25 ng/l	1 12/28/16 21:14 M-02
Naphthalene	ND	25 ng/l	1 12/28/16 21:14 M-02
Phenanthrene	ND	25 ng/l	1 12/28/16 21:14 M-02
Pyrene	ND	25 ng/l	1 12/28/16 21:14 M-02
<i>Surrogate(s)</i>			
1,3-Dimethyl-2-nitrobenzene	99% Conc: 495	50-150	12/28/16 21:14 M-02
Perylene-d12	114% Conc: 571	50-150	12/28/16 21:14 M-02

Volatile Organics by EPA Method 624

Method: EPA 624	Batch ID: W6L2001	Prepared: 12/20/16 08:32	Analyst: rdt
2-Chloroethyl vinyl ether	ND	1.0 ug/l	1 12/20/16 15:04
Methyl tert-butyl ether (MTBE)	ND	1.0 ug/l	1 12/20/16 15:04
<i>Surrogate(s)</i>			
1,2-Dichloroethane-d4	105% Conc: 52.6	82-125	12/20/16 15:04
4-Bromofluorobenzene	99% Conc: 49.3	88-108	12/20/16 15:04
Toluene-d8	104% Conc: 51.8	92-112	12/20/16 15:04

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Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: LL Hg Field Blank
6L16010-02 (Water)

Sampled: 12/16/16 0:00 by ES/ RS

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Mercury - Low Level by CVAFS

Method: EPA 1631E

Batch ID: W6L2537

Prepared: 12/16/16 16:39

Analyst: gza

Mercury, Total	ND	0.50	ng/l	1	12/29/16 14:19	
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01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 12/16/16 5:30 by ES/ RS

6L16010-03 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by EPA Method 625						
Method: EPA 625	Batch ID: W6L1921	Prepared: 12/19/16 09:27	Analyst: etn			
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	12/28/16 09:33	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	12/28/16 09:33	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	12/28/16 09:33	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	12/28/16 09:33	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	12/28/16 09:33	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	12/28/16 09:33	
2,4-Dichlorophenol	ND	1.0	ug/l	1	12/28/16 09:33	
2,4-Dimethylphenol	ND	1.0	ug/l	1	12/28/16 09:33	
2,4-Dinitrophenol	ND	5.0	ug/l	1	12/28/16 09:33	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	12/28/16 09:33	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	12/28/16 09:33	
2-Chloronaphthalene	ND	1.0	ug/l	1	12/28/16 09:33	
2-Chlorophenol	ND	1.0	ug/l	1	12/28/16 09:33	
2-Nitrophenol	ND	1.0	ug/l	1	12/28/16 09:33	
3,3'-Dichlorobenzidine	ND	5.0	ug/l	1	12/28/16 09:33	
4,6-Dinitro-2-methylphenol	ND	5.0	ug/l	1	12/28/16 09:33	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	12/28/16 09:33	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	12/28/16 09:33	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	12/28/16 09:33	
4-Nitrophenol	ND	5.0	ug/l	1	12/28/16 09:33	
Acenaphthene	ND	1.0	ug/l	1	12/28/16 09:33	
Acenaphthylene	ND	1.0	ug/l	1	12/28/16 09:33	
Anthracene	ND	1.0	ug/l	1	12/28/16 09:33	
Benzidine	ND	5.0	ug/l	1	12/28/16 09:33	
Benzo (a) anthracene	ND	1.0	ug/l	1	12/28/16 09:33	
Benzo (a) pyrene	ND	1.0	ug/l	1	12/28/16 09:33	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	12/28/16 09:33	
Benzo (g,h,i) perylene	ND	2.0	ug/l	1	12/28/16 09:33	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	12/28/16 09:33	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	12/28/16 09:33	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	12/28/16 09:33	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	12/28/16 09:33	
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/l	1	12/28/16 09:33	
Butyl benzyl phthalate	ND	1.0	ug/l	1	12/28/16 09:33	
Chrysene	ND	1.0	ug/l	1	12/28/16 09:33	
Dibenzo (a,h) anthracene	ND	2.0	ug/l	1	12/28/16 09:33	

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AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 12/16/16 5:30 by ES/ RS

6L16010-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by EPA Method 625 (Continued)						
Diethyl phthalate	ND	1.0	ug/l	1	12/28/16 09:33	
Dimethyl phthalate	ND	1.0	ug/l	1	12/28/16 09:33	
Di-n-butyl phthalate	ND	1.0	ug/l	1	12/28/16 09:33	
Di-n-octyl phthalate	ND	1.0	ug/l	1	12/28/16 09:33	
Fluoranthene	ND	1.0	ug/l	1	12/28/16 09:33	
Fluorene	ND	1.0	ug/l	1	12/28/16 09:33	
Hexachlorobenzene	ND	1.0	ug/l	1	12/28/16 09:33	
Hexachlorobutadiene	ND	1.0	ug/l	1	12/28/16 09:33	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	12/28/16 09:33	
Hexachloroethane	ND	1.0	ug/l	1	12/28/16 09:33	
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l	1	12/28/16 09:33	
Isophorone	ND	1.0	ug/l	1	12/28/16 09:33	
Naphthalene	ND	1.0	ug/l	1	12/28/16 09:33	
Nitrobenzene	ND	1.0	ug/l	1	12/28/16 09:33	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	12/28/16 09:33	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	12/28/16 09:33	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	12/28/16 09:33	
Pentachlorophenol	1.3	1.0	ug/l	1	12/28/16 09:33	
Phenanthrene	ND	1.0	ug/l	1	12/28/16 09:33	
Phenol	ND	1.0	ug/l	1	12/28/16 09:33	
Pyrene	ND	1.0	ug/l	1	12/28/16 09:33	
<i>Surrogate(s)</i>						
<i>2,4,6-Tribromophenol</i>	92% Conc: 45.8	25-102			12/28/16 09:33	
<i>2-Fluorobiphenyl</i>	86% Conc: 21.4	22-107			12/28/16 09:33	
<i>2-Fluorophenol</i>	50% Conc: 24.9	3-74			12/28/16 09:33	
<i>Nitrobenzene-d5</i>	78% Conc: 19.6	27-111			12/28/16 09:33	
<i>Phenol-d5</i>	34% Conc: 17.2	0.1-53			12/28/16 09:33	
<i>Terphenyl-d14</i>	81% Conc: 20.2	28-113			12/28/16 09:33	

Anions by IC, EPA Method 300.0

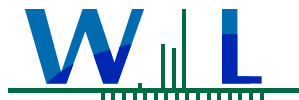
Method: EPA 300.0	Batch ID: W6L2385	Prepared: 12/27/16 12:21	Analyst: aep
Chloride, Total	1.5	0.50 mg/l	1 12/27/16 13:02
Fluoride, Total	ND	0.10 mg/l	1 12/27/16 13:02
Sulfate as SO4	1.8	0.50 mg/l	1 12/27/16 13:02

Chlorinated Herbicides

Method: EPA 515.3	Batch ID: W6L1945	Prepared: 12/19/16 11:10	Analyst: rmr
2,4,5-T	ND	0.20 ug/l	1 12/30/16 21:34
2,4,5-TP (Silvex)	ND	0.20 ug/l	1 12/30/16 21:34
2,4-D	ND	0.40 ug/l	1 12/30/16 21:34

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 12/16/16 5:30 by ES/ RS

6L16010-03 (Water)

(Continued)

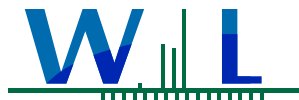
Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Herbicides (Continued)						
2,4-DB	ND	2.0	ug/l	1	12/30/16 21:34	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/30/16 21:34	
Acifluorfen	ND	0.40	ug/l	1	12/30/16 21:34	
Bentazon	ND	2.0	ug/l	1	12/30/16 21:34	
Dalapon	ND	0.40	ug/l	1	12/30/16 21:34	
DCPA	ND	0.10	ug/l	1	12/30/16 21:34	
Dicamba	ND	0.60	ug/l	1	12/30/16 21:34	
Dichloroprop	ND	0.30	ug/l	1	12/30/16 21:34	
Dinoseb	ND	0.40	ug/l	1	12/30/16 21:34	
Pentachlorophenol	0.66	0.20	ug/l	1	12/30/16 21:34	
Picloram	ND	0.60	ug/l	1	12/30/16 21:34	
<i>Surrogate(s)</i>						
2,4-DCAA	102%	Conc: 10.2	70-130		12/30/16 21:34	

Chlorinated Pesticides and/or PCBs

Method: EPA 608	Batch ID: W6L2016	Prepared: 12/21/16 09:38	Analyst: rmr			
2,4'-DDD	ND	5.0	ng/l	1	01/07/17 02:13	
2,4'-DDE	ND	5.0	ng/l	1	01/07/17 02:13	
2,4'-DDT	ND	5.0	ng/l	1	01/07/17 02:13	
4,4'-DDD	ND	5.0	ng/l	1	01/07/17 02:13	
4,4'-DDE	ND	5.0	ng/l	1	01/07/17 02:13	
4,4'-DDT	ND	5.0	ng/l	1	01/07/17 02:13	
Aldrin	ND	5.0	ng/l	1	01/07/17 02:13	
alpha-BHC	ND	5.0	ng/l	1	01/07/17 02:13	
alpha-Chlordane	ND	5.0	ng/l	1	01/07/17 02:13	
Aroclor 1016	ND	100	ng/l	1	01/07/17 02:13	
Aroclor 1221	ND	100	ng/l	1	01/07/17 02:13	
Aroclor 1232	ND	100	ng/l	1	01/07/17 02:13	
Aroclor 1242	ND	100	ng/l	1	01/07/17 02:13	
Aroclor 1248	ND	100	ng/l	1	01/07/17 02:13	
Aroclor 1254	ND	100	ng/l	1	01/07/17 02:13	
Aroclor 1260	ND	100	ng/l	1	01/07/17 02:13	
beta-BHC	ND	5.0	ng/l	1	01/07/17 02:13	
Chlordane (tech)	ND	100	ng/l	1	01/07/17 02:13	
cis-Nonachlor	ND	5.0	ng/l	1	01/07/17 02:13	
delta-BHC	ND	5.0	ng/l	1	01/07/17 02:13	
Dieldrin	ND	5.0	ng/l	1	01/07/17 02:13	
Endosulfan I	ND	5.0	ng/l	1	01/07/17 02:13	
Endosulfan II	ND	5.0	ng/l	1	01/07/17 02:13	

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 12/16/16 5:30 by ES/ RS

6L16010-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs (Continued)						
Endosulfan sulfate	ND	5.0	ng/l	1	01/07/17 02:13	
Endrin	ND	5.0	ng/l	1	01/07/17 02:13	
Endrin aldehyde	ND	5.0	ng/l	1	01/07/17 02:13	
gamma-BHC (Lindane)	ND	5.0	ng/l	1	01/07/17 02:13	
gamma-Chlordane	ND	5.0	ng/l	1	01/07/17 02:13	
Heptachlor	ND	5.0	ng/l	1	01/07/17 02:13	
Heptachlor epoxide	ND	5.0	ng/l	1	01/07/17 02:13	
Methoxychlor	ND	5.0	ng/l	1	01/07/17 02:13	
Mirex	ND	5.0	ng/l	1	01/07/17 02:13	
Toxaphene	ND	500	ng/l	1	01/07/17 02:13	
trans-Nonachlor	ND	5.0	ng/l	1	01/07/17 02:13	
<i>Surrogate(s)</i>						
Decachlorobiphenyl	56% Conc: 56.4	0.1-118			01/07/17 02:13	
Tetrachloro-meta-xylene	45% Conc: 44.8	12-117			01/07/17 02:13	

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: ASTM D7511	Batch ID: W6L2378	Prepared: 12/27/16 10:25		Analyst: mbc
Cyanide, Total	ND	2.0 ug/l	1	12/27/16 15:43
Method: EPA 160.4	Batch ID: W6L2146	Prepared: 12/21/16 15:54		Analyst: ajk
Volatile Suspended Solids	17	5.0 mg/l	1	12/21/16 17:00
Method: EPA 1664A	Batch ID: W7A1354	Prepared: 01/05/17 08:52		Analyst: joh
Oil & Grease (HEM)	ND	5.0 mg/l	1	01/05/17 16:54
Method: EPA 180.1	Batch ID: W6L1887	Prepared: 12/17/16 11:04		Analyst: dmn
Turbidity	18	0.10 NTU	1	12/17/16 14:46
Method: EPA 350.1	Batch ID: W6L2319	Prepared: 12/23/16 13:48		Analyst: mnq
Ammonia as N	0.36	0.10 mg/l	1	12/28/16 14:48
Method: EPA 351.2	Batch ID: W6L1957	Prepared: 12/19/16 13:23		Analyst: ymt
TKN	1.3	0.10 mg/l	1	12/21/16 19:27
Method: EPA 353.2	Batch ID: W6L2006	Prepared: 12/20/16 09:12		Analyst: AJK
NO2+NO3 as N	660	100 ug/l	1	12/20/16 11:38
Method: EPA 365.1	Batch ID: W6L1970	Prepared: 12/19/16 14:05		Analyst: nat
Phosphorus as P, Total	0.31	0.020 mg/l	2	12/22/16 12:57
Method: EPA 365.3	Batch ID: W6L2346	Prepared: 12/24/16 09:41		Analyst: dmn
Phosphorus, Dissolved	0.20	0.010 mg/l	1	12/30/16 12:42
Method: EPA 410.4	Batch ID: W6L2318	Prepared: 12/23/16 13:41		Analyst: mnq
Chemical Oxygen Demand	32	5.0 mg/l	1	12/30/16 10:52
Method: EPA 420.4	Batch ID: W6L2004	Prepared: 12/20/16 09:09		Analyst: AJK
Phenolics	ND	0.010 mg/l	1	12/28/16 11:09
Method: SM 2320B	Batch ID: W6L2381	Prepared: 12/27/16 11:02		Analyst: dmn

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Project Number: Irwindale SW Outfall Monitoring

Project Manager: Ed Suher

Certificate of Analysis

FINAL REPORT

Reported:

01/26/2017 08:50

Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 12/16/16 5:30 by ES/ RS

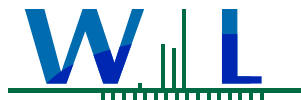
6L16010-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Alkalinity as CaCO ₃	17	2.0	mg/l	1	12/28/16 13:30	
Method: SM 2510B	Batch ID: W6L2026	Prepared: 12/20/16 11:12				Analyst: dmn
Specific Conductance (EC)	44	2.0	umhos/cm	1	12/20/16 14:23	
Method: SM 2540C	Batch ID: W6L1905	Prepared: 12/18/16 08:20				Analyst: ymt
Total Dissolved Solids	41	10	mg/l	1	12/20/16 19:20	
Method: SM 2540D	Batch ID: W6L2145	Prepared: 12/21/16 15:56				Analyst: ajk
Total Suspended Solids	48	5	mg/l	1	12/21/16 17:00	
Method: SM 4500O-G	Batch ID: W6L1859	Prepared: 12/16/16 17:03				Analyst: mnq
Dissolved Oxygen	9.38	1.00	mg/l	1	12/16/16 17:53	*
Method: SM 5210B	Batch ID: W6L1835	Prepared: 12/16/16 12:44				Analyst: mnq
Biochemical Oxygen Demand	6.4	2.0	mg/l	1	12/21/16 18:12	
Method: SM 5310C	Batch ID: W6L2224	Prepared: 12/22/16 13:37				Analyst: jlp
Total Organic Carbon (TOC)	6.7	0.30	mg/l	1	12/22/16 14:16	
Method: SM 5540C	Batch ID: W6L1880	Prepared: 12/17/16 09:04				Analyst: nat
MBAS	0.11	0.050	mg/l	1	12/17/16 13:26	
Glyphosate by EPA 547						
Method: EPA 547	Batch ID: W6L1922	Prepared: 12/19/16 09:28				Analyst: pjs
Glyphosate	ND	5.0	ug/l	1	12/19/16 17:01	
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W6L2448	Prepared: 12/27/16 19:13				Analyst: blg
Chromium 6+	ND	0.020	ug/l	1	12/28/16 08:00	
Method: EPA 218.6	Batch ID: W6L2644	Prepared: 12/30/16 00:00				Analyst: blg
Chromium 6+, Dissolved	0.18	0.020	ug/l	1	12/30/16 00:30	
Hydrocarbons by EPA 8015D						
Method: EPA 8015D	Batch ID: W6L1924	Prepared: 12/19/16 09:35				Analyst: cam
Diesel Range Organics	0.51	0.10	mg/l	1	12/23/16 01:38	
Oil Range Organics	1.0	0.50	mg/l	1	12/23/16 01:38	
Surrogate(s)						
n-Tetracosane	110% Conc: 0.275	64-155			12/23/16 01:38	
Method: EPA 8015D	Batch ID: W6L2033	Prepared: 12/20/16 11:42				Analyst: mtn
Gasoline Range Organics	ND	0.10	mg/l	1	12/20/16 21:29	
Surrogate(s)						
4-Bromofluorobenzene	92% Conc: 0.0460	72-124			12/20/16 21:29	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	Batch ID: W6L2537	Prepared: 12/16/16 16:39				Analyst: gza
Mercury, Dissolved	3.9	0.50	ng/l	1	12/29/16 14:19	
Mercury, Total	11	0.50	ng/l	1	12/29/16 14:19	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	Batch ID: [CALC]	Prepared: 01/03/17 10:37				Analyst: JCK

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 12/16/16 5:30 by ES/ RS

6L16010-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Calcium Hardness as CaCO3	12.1	0.250	mg/l	1	01/04/17 16:27	
Method: EPA 200.7	Batch ID: W7A1202	Prepared: 01/03/17 10:37	Analyst: JCK			
Calcium, Total	4.84	0.100	mg/l	1	01/04/17 16:27	
Method: EPA 200.8	Batch ID: W6L2423	Prepared: 12/27/16 15:57	Analyst: rrl			
Aluminum, Dissolved	21	5.0	ug/l	1	01/04/17 18:49	
Aluminum, Total	580	5.0	ug/l	1	01/04/17 18:53	
Antimony, Dissolved	ND	0.50	ug/l	1	01/04/17 18:49	
Antimony, Total	0.65	0.50	ug/l	1	01/04/17 18:53	
Arsenic, Dissolved	0.47	0.40	ug/l	1	01/04/17 18:49	
Arsenic, Total	0.75	0.40	ug/l	1	01/04/17 18:53	
Beryllium, Dissolved	ND	0.10	ug/l	1	01/04/17 18:49	
Beryllium, Total	ND	0.10	ug/l	1	01/04/17 18:53	
Cadmium, Dissolved	ND	0.10	ug/l	1	01/04/17 18:49	
Cadmium, Total	0.14	0.10	ug/l	1	01/04/17 18:53	
Chromium, Dissolved	0.31	0.20	ug/l	1	01/04/17 18:49	
Chromium, Total	1.2	0.20	ug/l	1	01/04/17 18:53	
Copper, Dissolved	6.4	0.50	ug/l	1	01/04/17 18:49	
Copper, Total	16	0.50	ug/l	1	01/04/17 18:53	
Iron, Dissolved	28	20	ug/l	1	01/04/17 18:49	
Iron, Total	770	20	ug/l	1	01/04/17 18:53	
Lead, Dissolved	0.30	0.20	ug/l	1	01/04/17 18:49	
Lead, Total	7.7	0.20	ug/l	1	01/04/17 18:53	
Nickel, Dissolved	1.3	0.80	ug/l	1	01/04/17 18:49	
Nickel, Total	2.7	0.80	ug/l	1	01/04/17 18:53	
Selenium, Dissolved	ND	0.40	ug/l	1	01/04/17 18:49	
Selenium, Total	ND	0.40	ug/l	1	01/04/17 18:53	
Silver, Dissolved	ND	0.20	ug/l	1	01/04/17 18:49	
Silver, Total	ND	0.20	ug/l	1	01/04/17 18:53	
Thallium, Dissolved	ND	0.20	ug/l	1	01/04/17 18:49	
Thallium, Total	ND	0.20	ug/l	1	01/04/17 18:53	
Zinc, Dissolved	24	5.0	ug/l	1	01/04/17 18:49	
Zinc, Total	76	5.0	ug/l	1	01/04/17 18:53	
Microbiological Parameters by Standard Methods						
Method: Enterolert	Batch ID: W6L2172	Prepared: 12/16/16 12:41	Analyst: lil			
Enterococcus	17000	10 MPN/100ml	10	12/17/16 13:35		
Method: SM 9221B	Batch ID: W6L2168	Prepared: 12/16/16 11:54	Analyst: lil			
Total Coliform	22000	20 MPN/100ml	10	12/20/16 18:09		

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 12/16/16 5:30 by ES/ RS

6L16010-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Microbiological Parameters by Standard Methods (Continued)

Method: SM 9221E	Batch ID: W6L2168	Prepared: 12/16/16 11:54	Analyst: lil
Fecal Coliform	3000	20 MPN/100ml	10 12/19/16 18:29

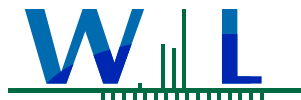
Method: SM 9221F	Batch ID: W6L2168	Prepared: 12/16/16 11:54	Analyst: lil
E. coli	3000	20 MPN/100ml	10 12/19/16 18:29

PCB Congener Screen by GCMS SIM

Method: GC/MS/MS	Batch ID: W6L2373	Prepared: 12/27/16 09:14	Analyst: EFC
PCB-101	ND	10 ng/l	1 12/29/16 22:08
PCB-105	ND	10 ng/l	1 12/29/16 22:08
PCB-110	ND	10 ng/l	1 12/30/16 05:31
PCB-114	ND	10 ng/l	1 12/29/16 22:08
PCB-118	ND	10 ng/l	1 12/29/16 22:08
PCB-119	ND	10 ng/l	1 12/30/16 05:31
PCB-123	ND	10 ng/l	1 12/29/16 22:08
PCB-126	ND	10 ng/l	1 12/29/16 22:08
PCB-128	ND	10 ng/l	1 12/29/16 22:08
PCB-132	ND	10 ng/l	1 12/30/16 05:31
PCB-138	ND	10 ng/l	1 12/29/16 22:08
PCB-141	ND	10 ng/l	1 12/30/16 05:31
PCB-149	ND	10 ng/l	1 12/30/16 05:31
PCB-151	ND	10 ng/l	1 12/30/16 05:31
PCB-153	ND	10 ng/l	1 12/29/16 22:08
PCB-156	ND	10 ng/l	1 12/29/16 22:08
PCB-157	ND	10 ng/l	1 12/29/16 22:08
PCB-158	ND	10 ng/l	1 12/30/16 05:31
PCB-167	ND	10 ng/l	1 12/29/16 22:08
PCB-168	ND	10 ng/l	1 12/30/16 05:31
PCB-169	ND	10 ng/l	1 12/29/16 22:08
PCB-170	ND	10 ng/l	1 12/29/16 22:08
PCB-174	ND	10 ng/l	1 12/30/16 05:31
PCB-177	ND	10 ng/l	1 12/30/16 05:31
PCB-18	ND	10 ng/l	1 12/29/16 22:08
PCB-180	ND	10 ng/l	1 12/29/16 22:08
PCB-183	ND	10 ng/l	1 12/30/16 05:31
PCB-187	ND	10 ng/l	1 12/29/16 22:08
PCB-189	ND	10 ng/l	1 12/29/16 22:08
PCB-194	ND	10 ng/l	1 12/30/16 05:31
PCB-195	ND	10 ng/l	1 12/29/16 22:08

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 12/16/16 5:30 by ES/ RS

6L16010-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
PCB Congener Screen by GCMS SIM (Continued)						
PCB-200	ND	10	ng/l	1	12/30/16 05:31	
PCB-201	ND	10	ng/l	1	12/30/16 05:31	
PCB-203	ND	10	ng/l	1	12/30/16 05:31	
PCB-206	ND	10	ng/l	1	12/29/16 22:08	
PCB-209	ND	10	ng/l	1	12/29/16 22:08	
PCB-28	ND	10	ng/l	1	12/29/16 22:08	
PCB-3	ND	10	ng/l	1	12/30/16 05:31	
PCB-31	ND	10	ng/l	1	12/30/16 05:31	
PCB-33	ND	10	ng/l	1	12/30/16 05:31	
PCB-37	ND	10	ng/l	1	12/30/16 05:31	
PCB-44	ND	10	ng/l	1	12/29/16 22:08	
PCB-49	ND	10	ng/l	1	12/30/16 05:31	
PCB-52	ND	10	ng/l	1	12/29/16 22:08	
PCB-56	ND	10	ng/l	1	12/30/16 05:31	
PCB-60	ND	10	ng/l	1	12/30/16 05:31	
PCB-66	ND	10	ng/l	1	12/29/16 22:08	
PCB-70	ND	10	ng/l	1	12/30/16 05:31	
PCB-74	ND	10	ng/l	1	12/30/16 05:31	
PCB-77	ND	10	ng/l	1	12/29/16 22:08	
PCB-8	ND	10	ng/l	1	12/29/16 22:08	
PCB-81	ND	10	ng/l	1	12/29/16 22:08	
PCB-87	ND	10	ng/l	1	12/30/16 05:31	
PCB-95	ND	10	ng/l	1	12/30/16 05:31	
PCB-97	ND	10	ng/l	1	12/30/16 05:31	
PCB-99	ND	10	ng/l	1	12/30/16 05:31	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	88% Conc: 220	49-146			12/29/16 22:08	
Triphenyl phosphate	168% Conc: 419	30-213			12/29/16 22:08	

Perchlorate by EPA 314.0

Method: EPA 314.0	Batch ID: W6L2500	Prepared: 12/28/16 17:28	Analyst: blg
Perchlorate	2.0	2.0 ug/l	1 12/28/16 19:48

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2	Batch ID: W6L2418	Prepared: 12/27/16 15:25	Analyst: etn
Alachlor	ND	0.10 ug/l	1 01/10/17 22:06
Atrazine	ND	0.10 ug/l	1 01/10/17 22:06
Bromacil	ND	0.50 ug/l	1 01/10/17 22:06
Butachlor	ND	0.10 ug/l	1 01/10/17 22:06
Chlorpropham	ND	0.10 ug/l	1 01/10/17 22:06

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FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 12/16/16 5:30 by ES/ RS

6L16010-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Cyanazine	ND	0.10	ug/l	1	01/10/17 22:06	
Diazinon	ND	0.10	ug/l	1	01/10/17 22:06	
Dimethoate	ND	0.20	ug/l	1	01/10/17 22:06	
Diphenamid	ND	0.10	ug/l	1	01/10/17 22:06	
Disulfoton	ND	0.10	ug/l	1	01/10/17 22:06	
EPTC	ND	0.10	ug/l	1	01/10/17 22:06	
Metolachlor	ND	0.10	ug/l	1	01/10/17 22:06	
Metribuzin	ND	0.10	ug/l	1	01/10/17 22:06	
Molinate	ND	0.10	ug/l	1	01/10/17 22:06	
Prometon	ND	0.10	ug/l	1	01/10/17 22:06	
Prometryn	ND	0.10	ug/l	1	01/10/17 22:06	
Simazine	ND	0.10	ug/l	1	01/10/17 22:06	
Terbacil	ND	2.0	ug/l	1	01/10/17 22:06	
Thiobencarb	ND	0.10	ug/l	1	01/10/17 22:06	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	107% Conc: 5.33	73-138			01/10/17 22:06	
Perylene-d12	55% Conc: 2.74	30-118			01/10/17 22:06	
Triphenyl phosphate	104% Conc: 5.18	70-149			01/10/17 22:06	
Method: EPA 525.2						
Batch ID: W6L2524		Prepared: 12/29/16 08:35			Analyst: EFC	
Azinphos methyl (Guthion)	ND	10	ng/l	1	12/30/16 19:29	
Bolstar	ND	10	ng/l	1	12/30/16 19:29	
Chlorpyrifos	ND	10	ng/l	1	12/30/16 19:29	
Coumaphos	ND	10	ng/l	1	12/30/16 19:29	
Demeton-o	ND	10	ng/l	1	12/30/16 19:29	
Demeton-s	ND	10	ng/l	1	12/30/16 19:29	
Diazinon	ND	10	ng/l	1	12/30/16 19:29	
Dichlorvos	ND	10	ng/l	1	12/30/16 19:29	
Dimethoate	ND	10	ng/l	1	12/30/16 19:29	
Disulfoton	ND	10	ng/l	1	12/30/16 19:29	
Ethoprop	ND	10	ng/l	1	12/30/16 19:29	
Ethyl parathion	ND	10	ng/l	1	12/30/16 19:29	
Fensulfothion	ND	10	ng/l	1	12/30/16 19:29	
Fenthion	ND	10	ng/l	1	12/30/16 19:29	
Malathion	260	10	ng/l	1	12/30/16 19:29	
Merphos	ND	10	ng/l	1	12/30/16 19:29	
Methyl parathion	ND	10	ng/l	1	12/30/16 19:29	
Mevinphos	ND	10	ng/l	1	12/30/16 19:29	
Naled	ND	10	ng/l	1	12/30/16 19:29	

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: SAWPW-074A
6L16010-03 (Water)

Sampled: 12/16/16 5:30 by ES/ RS
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Phorate	ND	10	ng/l	1	12/30/16 19:29	
Ronnel	ND	10	ng/l	1	12/30/16 19:29	
Stirophos	ND	10	ng/l	1	12/30/16 19:29	
Tokuthion (Prothiofos)	ND	10	ng/l	1	12/30/16 19:29	
Trichloronate	ND	10	ng/l	1	12/30/16 19:29	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	87% Conc: 433	76-128			12/30/16 19:29	
Triphenyl phosphate	81% Conc: 403	40-163			12/30/16 19:29	

Semivolatile Organics - Low Level by Tandem GC/MS/MS

Method: GC/MS/MS	Batch ID: W6L2194	Prepared: 12/22/16 09:32	Analyst: EFC
Acenaphthene	ND	25 ng/l	1 12/28/16 21:48 M-02
Acenaphthylene	ND	25 ng/l	1 12/28/16 21:48 M-02
Anthracene	ND	25 ng/l	1 12/28/16 21:48 M-02
Benzo (a) anthracene	ND	25 ng/l	1 12/28/16 21:48 M-02
Benzo (a) pyrene	ND	25 ng/l	1 12/28/16 21:48 M-02
Benzo (b) fluoranthene	ND	25 ng/l	1 12/28/16 21:48 M-02
Benzo (g,h,i) perylene	ND	25 ng/l	1 12/28/16 21:48 M-02
Benzo (k) fluoranthene	ND	25 ng/l	1 12/28/16 21:48 M-02
Chrysene	ND	25 ng/l	1 12/28/16 21:48 M-02
Dibenzo (a,h) anthracene	ND	25 ng/l	1 12/28/16 21:48 M-02
Fluoranthene	ND	25 ng/l	1 12/28/16 21:48 M-02
Fluorene	ND	25 ng/l	1 12/28/16 21:48 M-02
Indeno (1,2,3-cd) pyrene	ND	25 ng/l	1 12/28/16 21:48 M-02
Naphthalene	ND	25 ng/l	1 12/28/16 21:48 M-02
Phenanthrene	ND	25 ng/l	1 12/28/16 21:48 M-02
Pyrene	ND	25 ng/l	1 12/28/16 21:48 M-02
<i>Surrogate(s)</i>			
1,3-Dimethyl-2-nitrobenzene	120% Conc: 599	50-150	12/28/16 21:48 M-02
Perylene-d12	120% Conc: 601	50-150	12/28/16 21:48 M-02

Volatile Organics by EPA Method 624

Method: EPA 624	Batch ID: W6L2001	Prepared: 12/20/16 08:32	Analyst: rdt
2-Chloroethyl vinyl ether	ND	1.0 ug/l	1 12/20/16 15:32
Methyl tert-butyl ether (MTBE)	ND	1.0 ug/l	1 12/20/16 15:32
<i>Surrogate(s)</i>			
1,2-Dichloroethane-d4	107% Conc: 53.4	82-125	12/20/16 15:32
4-Bromofluorobenzene	98% Conc: 48.9	88-108	12/20/16 15:32
Toluene-d8	104% Conc: 52.2	92-112	12/20/16 15:32

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Burbank, CA 91505

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FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: LL Hg Field Blank
6L16010-04 (Water)

Sampled: 12/16/16 0:00 by ES/ RS

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Mercury - Low Level by CVAFS

Method: EPA 1631E

Batch ID: W6L2537

Prepared: 12/16/16 16:39

Analyst: gza

Mercury, Total	ND	0.50	ng/l	1	12/29/16 14:19	
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WECK LABORATORIES, INC.

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2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 12/16/16 6:00 by ES/ RS

6L16010-05 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by EPA Method 625						
Method: EPA 625	Batch ID: W6L1921	Prepared: 12/19/16 09:27			Analyst: etn	
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	12/28/16 10:05	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	12/28/16 10:05	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	12/28/16 10:05	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	12/28/16 10:05	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	12/28/16 10:05	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	12/28/16 10:05	
2,4-Dichlorophenol	ND	1.0	ug/l	1	12/28/16 10:05	
2,4-Dimethylphenol	ND	1.0	ug/l	1	12/28/16 10:05	
2,4-Dinitrophenol	ND	5.0	ug/l	1	12/28/16 10:05	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	12/28/16 10:05	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	12/28/16 10:05	
2-Chloronaphthalene	ND	1.0	ug/l	1	12/28/16 10:05	
2-Chlorophenol	ND	1.0	ug/l	1	12/28/16 10:05	
2-Nitrophenol	ND	1.0	ug/l	1	12/28/16 10:05	
3,3'-Dichlorobenzidine	ND	5.0	ug/l	1	12/28/16 10:05	
4,6-Dinitro-2-methylphenol	ND	5.0	ug/l	1	12/28/16 10:05	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	12/28/16 10:05	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	12/28/16 10:05	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	12/28/16 10:05	
4-Nitrophenol	ND	5.0	ug/l	1	12/28/16 10:05	
Acenaphthene	ND	1.0	ug/l	1	12/28/16 10:05	
Acenaphthylene	ND	1.0	ug/l	1	12/28/16 10:05	
Anthracene	ND	1.0	ug/l	1	12/28/16 10:05	
Benzidine	ND	5.0	ug/l	1	12/28/16 10:05	
Benzo (a) anthracene	ND	1.0	ug/l	1	12/28/16 10:05	
Benzo (a) pyrene	ND	1.0	ug/l	1	12/28/16 10:05	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	12/28/16 10:05	
Benzo (g,h,i) perylene	ND	2.0	ug/l	1	12/28/16 10:05	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	12/28/16 10:05	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	12/28/16 10:05	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	12/28/16 10:05	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	12/28/16 10:05	
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/l	1	12/28/16 10:05	
Butyl benzyl phthalate	ND	1.0	ug/l	1	12/28/16 10:05	
Chrysene	ND	1.0	ug/l	1	12/28/16 10:05	
Dibenzo (a,h) anthracene	ND	2.0	ug/l	1	12/28/16 10:05	

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AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Project Number: Irwindale SW Outfall Monitoring

Project Manager: Ed Suher

Reported:
01/26/2017 08:50

Sample Results

(Continued)

Sample: BDW-027A
6L16010-05 (Water)

Sampled: 12/16/16 6:00 by ES/ RS

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by EPA Method 625 (Continued)						
Diethyl phthalate	ND	1.0	ug/l	1	12/28/16 10:05	
Dimethyl phthalate	ND	1.0	ug/l	1	12/28/16 10:05	
Di-n-butyl phthalate	ND	1.0	ug/l	1	12/28/16 10:05	
Di-n-octyl phthalate	ND	1.0	ug/l	1	12/28/16 10:05	
Fluoranthene	ND	1.0	ug/l	1	12/28/16 10:05	
Fluorene	ND	1.0	ug/l	1	12/28/16 10:05	
Hexachlorobenzene	ND	1.0	ug/l	1	12/28/16 10:05	
Hexachlorobutadiene	ND	1.0	ug/l	1	12/28/16 10:05	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	12/28/16 10:05	
Hexachloroethane	ND	1.0	ug/l	1	12/28/16 10:05	
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l	1	12/28/16 10:05	
Isophorone	ND	1.0	ug/l	1	12/28/16 10:05	
Naphthalene	ND	1.0	ug/l	1	12/28/16 10:05	
Nitrobenzene	ND	1.0	ug/l	1	12/28/16 10:05	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	12/28/16 10:05	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	12/28/16 10:05	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	12/28/16 10:05	
Pentachlorophenol	ND	1.0	ug/l	1	12/28/16 10:05	
Phenanthrene	ND	1.0	ug/l	1	12/28/16 10:05	
Phenol	ND	1.0	ug/l	1	12/28/16 10:05	
Pyrene	ND	1.0	ug/l	1	12/28/16 10:05	
<i>Surrogate(s)</i>						
2,4,6-Tribromophenol	92% Conc: 46.1	25-102			12/28/16 10:05	
2-Fluorobiphenyl	89% Conc: 22.2	22-107			12/28/16 10:05	
2-Fluorophenol	56% Conc: 28.1	3-74			12/28/16 10:05	
Nitrobenzene-d5	84% Conc: 21.0	27-111			12/28/16 10:05	
Phenol-d5	37% Conc: 18.4	0.1-53			12/28/16 10:05	
Terphenyl-d14	83% Conc: 20.7	28-113			12/28/16 10:05	

Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W6L2385	Prepared: 12/27/16 12:21	Analyst: aep
Chloride, Total	2.2	0.50 mg/l	1 12/27/16 13:02
Fluoride, Total	ND	0.10 mg/l	1 12/27/16 13:02
Sulfate as SO4	3.4	0.50 mg/l	1 12/27/16 13:02

Chlorinated Herbicides

Method: EPA 515.3	Batch ID: W6L1945	Prepared: 12/19/16 11:10	Analyst: rmr
2,4,5-T	ND	0.20 ug/l	1 12/30/16 22:11
2,4,5-TP (Silvex)	ND	0.20 ug/l	1 12/30/16 22:11
2,4-D	ND	0.40 ug/l	1 12/30/16 22:11

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AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 12/16/16 6:00 by ES/ RS

6L16010-05 (Water)

(Continued)

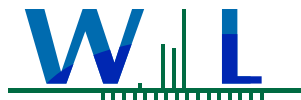
Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Herbicides (Continued)						
2,4-DB	ND	2.0	ug/l	1	12/30/16 22:11	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/30/16 22:11	
Acifluorfen	ND	0.40	ug/l	1	12/30/16 22:11	
Bentazon	ND	2.0	ug/l	1	12/30/16 22:11	
Dalapon	ND	0.40	ug/l	1	12/30/16 22:11	
DCPA	ND	0.10	ug/l	1	12/30/16 22:11	
Dicamba	ND	0.60	ug/l	1	12/30/16 22:11	
Dichloroprop	ND	0.30	ug/l	1	12/30/16 22:11	
Dinoseb	ND	0.40	ug/l	1	12/30/16 22:11	
Pentachlorophenol	ND	0.20	ug/l	1	12/30/16 22:11	
Picloram	ND	0.60	ug/l	1	12/30/16 22:11	
<i>Surrogate(s)</i>						
2,4-DCAA	99%	Conc: 9.93	70-130		12/30/16 22:11	

Chlorinated Pesticides and/or PCBs

Method: EPA 608	Batch ID: W6L2016	Prepared: 12/21/16 09:38				Analyst: rmr
2,4'-DDD	ND	10	ng/l	2	01/07/17 02:44	M-04
2,4'-DDE	ND	10	ng/l	2	01/07/17 02:44	M-04
2,4'-DDT	ND	10	ng/l	2	01/07/17 02:44	M-04
4,4'-DDD	ND	10	ng/l	2	01/07/17 02:44	M-04
4,4'-DDE	ND	10	ng/l	2	01/07/17 02:44	M-04
4,4'-DDT	ND	10	ng/l	2	01/07/17 02:44	M-04
Aldrin	ND	10	ng/l	2	01/07/17 02:44	M-04
alpha-BHC	ND	10	ng/l	2	01/07/17 02:44	M-04
alpha-Chlordane	ND	10	ng/l	2	01/07/17 02:44	M-04
Aroclor 1016	ND	200	ng/l	2	01/07/17 02:44	M-04
Aroclor 1221	ND	200	ng/l	2	01/07/17 02:44	M-04
Aroclor 1232	ND	200	ng/l	2	01/07/17 02:44	M-04
Aroclor 1242	ND	200	ng/l	2	01/07/17 02:44	M-04
Aroclor 1248	ND	200	ng/l	2	01/07/17 02:44	M-04
Aroclor 1254	ND	200	ng/l	2	01/07/17 02:44	M-04
Aroclor 1260	ND	200	ng/l	2	01/07/17 02:44	M-04
beta-BHC	ND	10	ng/l	2	01/07/17 02:44	M-04
Chlordane (tech)	ND	200	ng/l	2	01/07/17 02:44	M-04
cis-Nonachlor	ND	10	ng/l	2	01/07/17 02:44	M-04
delta-BHC	ND	10	ng/l	2	01/07/17 02:44	M-04
Dieldrin	ND	10	ng/l	2	01/07/17 02:44	M-04
Endosulfan I	ND	10	ng/l	2	01/07/17 02:44	M-04
Endosulfan II	ND	10	ng/l	2	01/07/17 02:44	M-04

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 12/16/16 6:00 by ES/ RS

6L16010-05 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs (Continued)						
Endosulfan sulfate	ND	10	ng/l	2	01/07/17 02:44	M-04
Endrin	ND	10	ng/l	2	01/07/17 02:44	M-04
Endrin aldehyde	ND	10	ng/l	2	01/07/17 02:44	M-04
gamma-BHC (Lindane)	ND	10	ng/l	2	01/07/17 02:44	M-04
gamma-Chlordane	ND	10	ng/l	2	01/07/17 02:44	M-04
Heptachlor	ND	10	ng/l	2	01/07/17 02:44	M-04
Heptachlor epoxide	ND	10	ng/l	2	01/07/17 02:44	M-04
Methoxychlor	ND	10	ng/l	2	01/07/17 02:44	M-04
Mirex	ND	10	ng/l	2	01/07/17 02:44	M-04
Toxaphene	ND	1000	ng/l	2	01/07/17 02:44	M-04
trans-Nonachlor	ND	10	ng/l	2	01/07/17 02:44	M-04
<i>Surrogate(s)</i>						
Decachlorobiphenyl	63%	Conc: 63.5	0.1-118		01/07/17 02:44	M-04
Tetrachloro-meta-xylene	53%	Conc: 52.7	12-117		01/07/17 02:44	M-04

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: ASTM D7511	Batch ID: W6L2378	Prepared: 12/27/16 10:25		Analyst: mbc
Cyanide, Total	ND	2.0 ug/l	1	12/27/16 15:43
Method: EPA 160.4	Batch ID: W6L2146	Prepared: 12/21/16 15:54		Analyst: ajk
Volatile Suspended Solids	11	5.0 mg/l	1	12/21/16 17:00
Method: EPA 1664A	Batch ID: W7A1354	Prepared: 01/05/17 08:52		Analyst: joh
Oil & Grease (HEM)	ND	5.0 mg/l	1	01/05/17 16:54
Method: EPA 180.1	Batch ID: W6L1887	Prepared: 12/17/16 11:04		Analyst: dmn
Turbidity	13	0.10 NTU	1	12/17/16 14:46
Method: EPA 350.1	Batch ID: W6L2319	Prepared: 12/23/16 13:48		Analyst: mnq
Ammonia as N	0.14	0.10 mg/l	1	12/28/16 14:48
Method: EPA 351.2	Batch ID: W6L1957	Prepared: 12/19/16 13:23		Analyst: ymt
TKN	0.69	0.10 mg/l	1	12/21/16 19:27
Method: EPA 353.2	Batch ID: W6L2006	Prepared: 12/20/16 09:12		Analyst: AJK
NO2+NO3 as N	230	100 ug/l	1	12/20/16 11:40
Method: EPA 365.1	Batch ID: W6L1970	Prepared: 12/19/16 14:05		Analyst: nat
Phosphorus as P, Total	0.089	0.010 mg/l	1	12/22/16 12:31
Method: EPA 365.3	Batch ID: W6L2346	Prepared: 12/24/16 09:41		Analyst: dmn
Phosphorus, Dissolved	0.055	0.010 mg/l	1	12/30/16 12:42
Method: EPA 410.4	Batch ID: W6L2318	Prepared: 12/23/16 13:41		Analyst: mnq
Chemical Oxygen Demand	17	5.0 mg/l	1	12/30/16 10:52
Method: EPA 420.4	Batch ID: W6L2004	Prepared: 12/20/16 09:09		Analyst: AJK
Phenolics	ND	0.010 mg/l	1	12/28/16 10:55
Method: SM 2320B	Batch ID: W6L2381	Prepared: 12/27/16 11:02		Analyst: dmn

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: BDW-027A
6L16010-05 (Water)

Sampled: 12/16/16 6:00 by ES/ RS
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Alkalinity as CaCO ₃	15	2.0	mg/l	1	12/28/16 13:30	
Method: SM 2510B	Batch ID: W6L2026	Prepared: 12/20/16 11:12				Analyst: dmn
Specific Conductance (EC)	43	2.0	umhos/cm	1	12/20/16 14:23	
Method: SM 2540C	Batch ID: W6L1905	Prepared: 12/18/16 08:20				Analyst: ymt
Total Dissolved Solids	43	10	mg/l	1	12/20/16 19:20	
Method: SM 2540D	Batch ID: W6L2145	Prepared: 12/21/16 15:56				Analyst: ajk
Total Suspended Solids	32	5	mg/l	1	12/21/16 17:00	
Method: SM 4500O-G	Batch ID: W6L1859	Prepared: 12/16/16 17:03				Analyst: mnq
Dissolved Oxygen	9.98	1.00	mg/l	1	12/16/16 17:53	*
Method: SM 5210B	Batch ID: W6L1835	Prepared: 12/16/16 12:44				Analyst: mnq
Biochemical Oxygen Demand	2.6	2.0	mg/l	1	12/21/16 18:12	
Method: SM 5310C	Batch ID: W6L2224	Prepared: 12/22/16 13:37				Analyst: jlp
Total Organic Carbon (TOC)	2.9	0.30	mg/l	1	12/22/16 14:16	
Method: SM 5540C	Batch ID: W6L1880	Prepared: 12/17/16 09:04				Analyst: nat
MBAS	0.093	0.050	mg/l	1	12/17/16 13:26	
Glyphosate by EPA 547						
Method: EPA 547	Batch ID: W6L1922	Prepared: 12/19/16 09:28				Analyst: pjs
Glyphosate	ND	5.0	ug/l	1	12/19/16 17:13	
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W6L2448	Prepared: 12/27/16 19:13				Analyst: blg
Chromium 6+	0.14	0.020	ug/l	1	12/28/16 08:00	
Method: EPA 218.6	Batch ID: W6L2644	Prepared: 12/30/16 00:00				Analyst: blg
Chromium 6+, Dissolved	0.16	0.020	ug/l	1	12/30/16 00:30	
Hydrocarbons by EPA 8015D						
Method: EPA 8015D	Batch ID: W6L1924	Prepared: 12/19/16 09:35				Analyst: cam
Diesel Range Organics	0.25	0.10	mg/l	1	12/23/16 02:13	
Oil Range Organics	ND	0.50	mg/l	1	12/23/16 02:13	
Surrogate(s)						
n-Tetracosane	103% Conc: 0.257	64-155			12/23/16 02:13	
Method: EPA 8015D	Batch ID: W6L2033	Prepared: 12/20/16 11:42				Analyst: mtn
Gasoline Range Organics	ND	0.10	mg/l	1	12/20/16 21:59	
Surrogate(s)						
4-Bromofluorobenzene	90% Conc: 0.0450	72-124			12/20/16 21:59	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	Batch ID: W6L2537	Prepared: 12/16/16 16:39				Analyst: gza
Mercury, Dissolved	3.8	0.50	ng/l	1	12/29/16 14:19	
Mercury, Total	8.1	0.50	ng/l	1	12/29/16 14:19	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	Batch ID: [CALC]	Prepared: 01/03/17 10:37				Analyst: JCK

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AEI-CASC Consulting
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Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 12/16/16 6:00 by ES/ RS

6L16010-05 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Calcium Hardness as CaCO3	10.7	0.250	mg/l	1	01/04/17 16:30	
Method: EPA 200.7	Batch ID: W7A1202	Prepared: 01/03/17 10:37				Analyst: JCK
Calcium, Total	4.28	0.100	mg/l	1	01/04/17 16:30	
Method: EPA 200.8	Batch ID: W6L2423	Prepared: 12/27/16 15:57				Analyst: rrl
Aluminum, Dissolved	15	5.0	ug/l	1	01/04/17 19:10	
Aluminum, Total	250	5.0	ug/l	1	01/04/17 19:14	
Antimony, Dissolved	ND	0.50	ug/l	1	01/04/17 19:10	
Antimony, Total	0.55	0.50	ug/l	1	01/04/17 19:14	
Arsenic, Dissolved	ND	0.40	ug/l	1	01/04/17 19:10	
Arsenic, Total	0.47	0.40	ug/l	1	01/04/17 19:14	
Beryllium, Dissolved	ND	0.10	ug/l	1	01/04/17 19:10	
Beryllium, Total	ND	0.10	ug/l	1	01/04/17 19:14	
Cadmium, Dissolved	ND	0.10	ug/l	1	01/04/17 19:10	
Cadmium, Total	ND	0.10	ug/l	1	01/04/17 19:14	
Chromium, Dissolved	0.27	0.20	ug/l	1	01/04/17 19:10	
Chromium, Total	0.59	0.20	ug/l	1	01/04/17 19:14	
Copper, Dissolved	2.2	0.50	ug/l	1	01/04/17 19:10	
Copper, Total	6.0	0.50	ug/l	1	01/04/17 19:14	
Iron, Dissolved	ND	20	ug/l	1	01/04/17 19:10	
Iron, Total	310	20	ug/l	1	01/04/17 19:14	
Lead, Dissolved	ND	0.20	ug/l	1	01/04/17 19:10	
Lead, Total	2.4	0.20	ug/l	1	01/04/17 19:14	
Nickel, Dissolved	ND	0.80	ug/l	1	01/04/17 19:10	
Nickel, Total	0.98	0.80	ug/l	1	01/04/17 19:14	
Selenium, Dissolved	ND	0.40	ug/l	1	01/04/17 19:10	
Selenium, Total	ND	0.40	ug/l	1	01/04/17 19:14	
Silver, Dissolved	ND	0.20	ug/l	1	01/04/17 19:10	
Silver, Total	ND	0.20	ug/l	1	01/04/17 19:14	
Thallium, Dissolved	ND	0.20	ug/l	1	01/04/17 19:10	
Thallium, Total	ND	0.20	ug/l	1	01/04/17 19:14	
Zinc, Dissolved	33	5.0	ug/l	1	01/04/17 19:10	
Zinc, Total	79	5.0	ug/l	1	01/04/17 19:14	
Microbiological Parameters by Standard Methods						
Method: Enterolert	Batch ID: W6L2172	Prepared: 12/16/16 12:41				Analyst: lil
Enterococcus	2900	10	MPN/100ml	10	12/17/16 13:35	
Method: SM 9221B	Batch ID: W6L2168	Prepared: 12/16/16 11:54				Analyst: lil
Total Coliform	11000	20	MPN/100ml	10	12/20/16 18:09	

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2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

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Project Number: Irwindale SW Outfall Monitoring

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Sample Results

(Continued)

Sample: BDW-027A

Sampled: 12/16/16 6:00 by ES/ RS

6L16010-05 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Microbiological Parameters by Standard Methods (Continued)

Method: SM 9221E	Batch ID: W6L2168	Prepared: 12/16/16 11:54	Analyst: lil
Fecal Coliform	1100	20 MPN/100ml	10 12/19/16 18:29

Method: SM 9221F	Batch ID: W6L2168	Prepared: 12/16/16 11:54	Analyst: lil
E. coli	200	20 MPN/100ml	10 12/19/16 18:29

PCB Congener Screen by GCMS SIM

Method: GC/MS/MS	Batch ID: W6L2373	Prepared: 12/27/16 09:14	Analyst: EFC
PCB-101	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-105	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-110	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-114	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-118	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-119	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-123	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-126	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-128	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-132	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-138	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-141	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-149	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-151	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-153	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-156	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-157	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-158	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-167	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-168	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-169	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-170	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-174	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-177	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-18	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-180	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-183	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-187	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-189	ND	50 ng/l	5 12/29/16 22:32 M-04
PCB-194	ND	50 ng/l	5 12/30/16 05:58 M-04
PCB-195	ND	50 ng/l	5 12/29/16 22:32 M-04

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Sample: BDW-027A

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6L16010-05 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
PCB Congener Screen by GCMS SIM (Continued)						
PCB-200	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-201	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-203	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-206	ND	50	ng/l	5	12/29/16 22:32	M-04
PCB-209	ND	50	ng/l	5	12/29/16 22:32	M-04
PCB-28	ND	50	ng/l	5	12/29/16 22:32	M-04
PCB-3	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-31	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-33	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-37	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-44	ND	50	ng/l	5	12/29/16 22:32	M-04
PCB-49	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-52	ND	50	ng/l	5	12/29/16 22:32	M-04
PCB-56	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-60	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-66	ND	50	ng/l	5	12/29/16 22:32	M-04
PCB-70	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-74	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-77	ND	50	ng/l	5	12/29/16 22:32	M-04
PCB-8	ND	50	ng/l	5	12/29/16 22:32	M-04
PCB-81	ND	50	ng/l	5	12/29/16 22:32	M-04
PCB-87	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-95	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-97	ND	50	ng/l	5	12/30/16 05:58	M-04
PCB-99	ND	50	ng/l	5	12/30/16 05:58	M-04
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	101% Conc: 253	49-146			12/29/16 22:32	M-04
Triphenyl phosphate	150% Conc: 376	30-213			12/29/16 22:32	M-04

Perchlorate by EPA 314.0

Method: EPA 314.0	Batch ID: W6L2500	Prepared: 12/28/16 17:28	Analyst: blg
Perchlorate	ND	2.0 ug/l	1 12/28/16 20:09

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2	Batch ID: W6L2418	Prepared: 12/27/16 15:25	Analyst: etn
Alachlor	ND	0.10 ug/l	1 01/10/17 22:32
Atrazine	ND	0.10 ug/l	1 01/10/17 22:32
Bromacil	ND	0.50 ug/l	1 01/10/17 22:32
Butachlor	ND	0.10 ug/l	1 01/10/17 22:32
Chlorpropham	ND	0.10 ug/l	1 01/10/17 22:32

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Sample Results

(Continued)

Sample: BDW-027A

Sampled: 12/16/16 6:00 by ES/ RS

6L16010-05 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Cyanazine	ND	0.10	ug/l	1	01/10/17 22:32	
Diazinon	ND	0.10	ug/l	1	01/10/17 22:32	
Dimethoate	ND	0.20	ug/l	1	01/10/17 22:32	
Diphenamid	ND	0.10	ug/l	1	01/10/17 22:32	
Disulfoton	ND	0.10	ug/l	1	01/10/17 22:32	
EPTC	ND	0.10	ug/l	1	01/10/17 22:32	
Metolachlor	ND	0.10	ug/l	1	01/10/17 22:32	
Metribuzin	ND	0.10	ug/l	1	01/10/17 22:32	
Molinate	ND	0.10	ug/l	1	01/10/17 22:32	
Prometon	ND	0.10	ug/l	1	01/10/17 22:32	
Prometryn	ND	0.10	ug/l	1	01/10/17 22:32	
Simazine	ND	0.10	ug/l	1	01/10/17 22:32	
Terbacil	ND	2.0	ug/l	1	01/10/17 22:32	
Thiobencarb	ND	0.10	ug/l	1	01/10/17 22:32	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	127% Conc: 6.35	73-138			01/10/17 22:32	
Perylene-d12	34% Conc: 1.71	30-118			01/10/17 22:32	
Triphenyl phosphate	105% Conc: 5.25	70-149			01/10/17 22:32	
Method: EPA 525.2						
Batch ID: W6L2524		Prepared: 12/29/16 08:35			Analyst: EFC	
Azinphos methyl (Guthion)	ND	10	ng/l	1	12/30/16 19:55	
Bolstar	ND	10	ng/l	1	12/30/16 19:55	
Chlorpyrifos	ND	10	ng/l	1	12/30/16 19:55	
Coumaphos	ND	10	ng/l	1	12/30/16 19:55	
Demeton-o	ND	10	ng/l	1	12/30/16 19:55	
Demeton-s	ND	10	ng/l	1	12/30/16 19:55	
Diazinon	ND	10	ng/l	1	12/30/16 19:55	
Dichlorvos	ND	10	ng/l	1	12/30/16 19:55	
Dimethoate	ND	10	ng/l	1	12/30/16 19:55	
Disulfoton	ND	10	ng/l	1	12/30/16 19:55	
Ethoprop	ND	10	ng/l	1	12/30/16 19:55	
Ethyl parathion	ND	10	ng/l	1	12/30/16 19:55	
Fensulfothion	ND	10	ng/l	1	12/30/16 19:55	
Fenthion	ND	10	ng/l	1	12/30/16 19:55	
Malathion	ND	10	ng/l	1	12/30/16 19:55	
Merphos	ND	10	ng/l	1	12/30/16 19:55	
Methyl parathion	ND	10	ng/l	1	12/30/16 19:55	
Mevinphos	ND	10	ng/l	1	12/30/16 19:55	
Naled	ND	10	ng/l	1	12/30/16 19:55	

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 12/16/16 6:00 by ES/ RS

6L16010-05 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Phorate	ND	10	ng/l	1	12/30/16 19:55	
Ronnel	ND	10	ng/l	1	12/30/16 19:55	
Stirophos	ND	10	ng/l	1	12/30/16 19:55	
Tokuthion (Prothiofos)	ND	10	ng/l	1	12/30/16 19:55	
Trichloronate	ND	10	ng/l	1	12/30/16 19:55	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	91% Conc: 453	76-128			12/30/16 19:55	
Triphenyl phosphate	73% Conc: 365	40-163			12/30/16 19:55	

Semivolatile Organics - Low Level by Tandem GC/MS/MS

Method: GC/MS/MS	Batch ID: W6L2194	Prepared: 12/22/16 09:32	Analyst: EFC
Acenaphthene	ND	25 ng/l	1 12/28/16 22:22 M-02
Acenaphthylene	ND	25 ng/l	1 12/28/16 22:22 M-02
Anthracene	ND	25 ng/l	1 12/28/16 22:22 M-02
Benzo (a) anthracene	ND	25 ng/l	1 12/28/16 22:22 M-02
Benzo (a) pyrene	ND	25 ng/l	1 12/28/16 22:22 M-02
Benzo (b) fluoranthene	ND	25 ng/l	1 12/28/16 22:22 M-02
Benzo (g,h,i) perylene	ND	25 ng/l	1 12/28/16 22:22 M-02
Benzo (k) fluoranthene	ND	25 ng/l	1 12/28/16 22:22 M-02
Chrysene	ND	25 ng/l	1 12/28/16 22:22 M-02
Dibenzo (a,h) anthracene	ND	25 ng/l	1 12/28/16 22:22 M-02
Fluoranthene	ND	25 ng/l	1 12/28/16 22:22 M-02
Fluorene	ND	25 ng/l	1 12/28/16 22:22 M-02
Indeno (1,2,3-cd) pyrene	ND	25 ng/l	1 12/28/16 22:22 M-02
Naphthalene	ND	25 ng/l	1 12/28/16 22:22 M-02
Phenanthrene	ND	25 ng/l	1 12/28/16 22:22 M-02
Pyrene	ND	25 ng/l	1 12/28/16 22:22 M-02
<i>Surrogate(s)</i>			
1,3-Dimethyl-2-nitrobenzene	115% Conc: 574	50-150	12/28/16 22:22 M-02
Perylene-d12	98% Conc: 490	50-150	12/28/16 22:22 M-02

Volatile Organics by EPA Method 624

Method: EPA 624	Batch ID: W6L2001	Prepared: 12/20/16 08:32	Analyst: rdt
2-Chloroethyl vinyl ether	ND	1.0 ug/l	1 12/20/16 16:01
Methyl tert-butyl ether (MTBE)	ND	1.0 ug/l	1 12/20/16 16:01
<i>Surrogate(s)</i>			
1,2-Dichloroethane-d4	108% Conc: 54.0	82-125	12/20/16 16:01
4-Bromofluorobenzene	98% Conc: 49.2	88-108	12/20/16 16:01
Toluene-d8	104% Conc: 51.9	92-112	12/20/16 16:01

6L16010

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01/26/2017 08:50

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: LL Hg Field Blank
6L16010-06 (Water)

Sampled: 12/16/16 0:00 by ES/ RS

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Mercury - Low Level by CVAFS

Method: EPA 1631E

Batch ID: W6L2537

Prepared: 12/16/16 16:39

Analyst: gza

Mercury, Total	ND	0.50	ng/l	1	12/29/16 14:19	
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Reported:

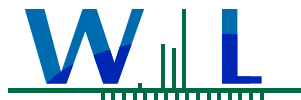
01/26/2017 08:50

Project Manager: Ed Suher

Quality Control Results

Acid and Base/Neutral Extractables by EPA Method 625

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1921 - EPA 625										
Blank (W6L1921-BLK1)				Prepared: 12/19/16 Analyzed: 12/28/16						
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
2,4,6-Trichlorophenol	ND	1.0	ug/l							
2,4-Dichlorophenol	ND	1.0	ug/l							
2,4-Dimethylphenol	ND	1.0	ug/l							
2,4-Dinitrophenol	ND	10	ug/l							
2,4-Dinitrotoluene	ND	1.0	ug/l							
2,6-Dinitrotoluene	ND	1.0	ug/l							
2-Chloronaphthalene	ND	1.0	ug/l							
2-Chlorophenol	ND	1.0	ug/l							
2-Nitrophenol	ND	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	5.0	ug/l							
4,6-Dinitro-2-methylphenol	ND	5.0	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	ug/l							
4-Chloro-3-methylphenol	ND	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	1.0	ug/l							
4-Nitrophenol	ND	5.0	ug/l							
Acenaphthene	ND	1.0	ug/l							
Acenaphthylene	ND	1.0	ug/l							
Anthracene	ND	1.0	ug/l							
Benzidine	ND	10	ug/l							
Benzo (a) anthracene	ND	1.0	ug/l							
Benzo (a) pyrene	ND	1.0	ug/l							
Benzo (b) fluoranthene	ND	1.0	ug/l							
Benzo (g,h,i) perylene	ND	2.0	ug/l							
Benzo (k) fluoranthene	ND	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/l							
Butyl benzyl phthalate	ND	1.0	ug/l							
Chrysene	ND	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	2.0	ug/l							
Diethyl phthalate	ND	1.0	ug/l							



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Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by EPA Method 625 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
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Batch: W6L1921 - EPA 625 (Continued)

Blank (W6L1921-BLK1)

Prepared: 12/19/16 Analyzed: 12/28/16

Dimethyl phthalate	ND	1.0	ug/l
Di-n-butyl phthalate	ND	1.0	ug/l
Di-n-octyl phthalate	ND	1.0	ug/l
Fluoranthene	ND	1.0	ug/l
Fluorene	ND	1.0	ug/l
Hexachlorobenzene	ND	1.0	ug/l
Hexachlorobutadiene	ND	1.0	ug/l
Hexachlorocyclopentadiene	ND	5.0	ug/l
Hexachloroethane	ND	1.0	ug/l
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l
Isophorone	ND	1.0	ug/l
Naphthalene	ND	1.0	ug/l
Nitrobenzene	ND	1.0	ug/l
N-Nitrosodimethylamine	ND	1.0	ug/l
N-Nitrosodi-n-propylamine	ND	1.0	ug/l
N-Nitrosodiphenylamine	ND	1.0	ug/l
Pentachlorophenol	ND	1.0	ug/l
Phenanthrene	ND	1.0	ug/l
Phenol	ND	1.0	ug/l
Pyrene	ND	1.0	ug/l

Surrogate(s)

2,4,6-Tribromophenol	43.7	ug/l	50.0	87	25-102
2-Fluorobiphenyl	22.8	ug/l	25.0	91	22-107
2-Fluorophenol	30.3	ug/l	50.0	61	3-74
Nitrobenzene-d5	22.0	ug/l	25.0	88	27-111
Phenol-d5	21.2	ug/l	50.0	42	0.1-53
Terphenyl-d14	22.4	ug/l	25.0	89	28-113



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Project Manager: Ed Suher

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by EPA Method 625 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L1921 - EPA 625 (Continued)										
Blank (W6L1921-BLK2)										
Prepared: 12/19/16 Analyzed: 01/05/17										
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/l							QC-2
<i>Surrogate(s)</i>										
2,4,6-Tribromophenol		40.8	ug/l	50.0		82	25-102			QC-2
2-Fluorobiphenyl		21.6	ug/l	25.0		86	22-107			QC-2
2-Fluorophenol		30.8	ug/l	50.0		62	3-74			QC-2
Nitrobenzene-d5		21.5	ug/l	25.0		86	27-111			QC-2
Phenol-d5		20.9	ug/l	50.0		42	0.1-53			QC-2
Terphenyl-d14		21.4	ug/l	25.0		86	28-113			QC-2
LCS (W6L1921-BS1)										
Prepared: 12/19/16 Analyzed: 12/28/16										
1,2,4-Trichlorobenzene	20.3	1.0	ug/l	25.0		81	44-142			
1,2-Dichlorobenzene	19.4	1.0	ug/l	25.0		78	32-129			
1,3-Dichlorobenzene	19.2	1.0	ug/l	25.0		77	0.1-172			
1,4-Dichlorobenzene	20.4	1.0	ug/l	25.0		82	20-124			
2,4,6-Trichlorophenol	22.3	1.0	ug/l	25.0		89	37-144			
2,4-Dichlorophenol	21.0	1.0	ug/l	25.0		84	39-135			
2,4-Dimethylphenol	14.9	1.0	ug/l	25.0		59	32-119			
2,4-Dinitrophenol	19.6	10	ug/l	25.0		78	0.1-191			
2,4-Dinitrotoluene	21.8	1.0	ug/l	25.0		87	39-139			
2,6-Dinitrotoluene	21.8	1.0	ug/l	25.0		87	50-158			
2-Chloronaphthalene	21.0	1.0	ug/l	25.0		84	60-118			
2-Chlorophenol	18.8	1.0	ug/l	25.0		75	23-134			
2-Nitrophenol	20.7	1.0	ug/l	25.0		83	29-182			
3,3'-Dichlorobenzidine	20.1	5.0	ug/l	25.0		80	0.1-262			
4,6-Dinitro-2-methylphenol	23.0	5.0	ug/l	25.0		92	0.1-181			
4-Bromophenyl phenyl ether	19.0	1.0	ug/l	25.0		76	53-127			
4-Chloro-3-methylphenol	20.8	1.0	ug/l	25.0		83	22-147			
4-Chlorophenyl phenyl ether	20.8	1.0	ug/l	25.0		83	25-158			
4-Nitrophenol	8.47	5.0	ug/l	25.0		34	0.1-132			
Acenaphthene	20.6	1.0	ug/l	25.0		82	47-145			
Acenaphthylene	22.4	1.0	ug/l	25.0		90	33-145			
Anthracene	22.0	1.0	ug/l	25.0		88	27-133			
Benzo (a) anthracene	26.4	1.0	ug/l	25.0		106	33-143			
Benzo (a) pyrene	28.2	1.0	ug/l	25.0		113	17-163			
Benzo (b) fluoranthene	28.8	1.0	ug/l	25.0		115	24-159			
Benzo (g,h,i) perylene	24.3	2.0	ug/l	25.0		97	0.1-219			
Benzo (k) fluoranthene	28.8	1.0	ug/l	25.0		115	11-162			
Bis(2-chloroethoxy)methane	19.9	1.0	ug/l	25.0		80	33-184			



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FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by EPA Method 625 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1921 - EPA 625 (Continued)										
LCS (W6L1921-BS1)				Prepared: 12/19/16 Analyzed: 12/28/16						
Bis(2-chloroethyl)ether	19.2	1.0	ug/l	25.0		77	12-158			
Bis(2-chloroisopropyl)ether	19.9	1.0	ug/l	25.0		80	36-166			
Bis(2-ethylhexyl)phthalate	32.7	5.0	ug/l	25.0		131	8-158			
Butyl benzyl phthalate	21.9	1.0	ug/l	25.0		87	0.1-152			
Chrysene	23.9	1.0	ug/l	25.0		96	17-168			
Dibenzo (a,h) anthracene	14.4	2.0	ug/l	25.0		58	0.1-227			
Diethyl phthalate	22.1	1.0	ug/l	25.0		89	0.1-114			
Dimethyl phthalate	22.4	1.0	ug/l	25.0		90	0.1-112			
Di-n-butyl phthalate	23.4	1.0	ug/l	25.0		94	1-118			
Di-n-octyl phthalate	22.1	1.0	ug/l	25.0		88	4-146			
Fluoranthene	24.1	1.0	ug/l	25.0		96	26-137			
Fluorene	21.2	1.0	ug/l	25.0		85	59-121			
Hexachlorobenzene	19.4	1.0	ug/l	25.0		78	0.1-152			
Hexachlorobutadiene	18.7	1.0	ug/l	25.0		75	24-116			
Hexachlorocyclopentadiene	14.4	5.0	ug/l	25.0		58	0.1-81			
Hexachloroethane	18.9	1.0	ug/l	25.0		76	40-113			
Indeno (1,2,3-cd) pyrene	24.2	2.0	ug/l	25.0		97	0.1-171			
Isophorone	20.8	1.0	ug/l	25.0		83	21-196			
Naphthalene	20.2	1.0	ug/l	25.0		81	21-133			
Nitrobenzene	19.1	1.0	ug/l	25.0		77	35-180			
N-Nitrosodimethylamine	14.0	1.0	ug/l	25.0		56	28-75			
N-Nitrosodi-n-propylamine	20.8	1.0	ug/l	25.0		83	0.1-230			
N-Nitrosodiphenylamine	19.0	1.0	ug/l	25.0		76	42-90			
Pentachlorophenol	20.9	1.0	ug/l	25.0		84	14-176			
Phenanthrene	22.2	1.0	ug/l	25.0		89	54-120			
Phenol	8.06	1.0	ug/l	25.0		32	5-112			
Pyrene	24.6	1.0	ug/l	25.0		98	52-115			
<i>Surrogate(s)</i>										
2,4,6-Tribromophenol		43.0	ug/l	50.0		86	25-102			
2-Fluorobiphenyl		19.7	ug/l	25.0		79	22-107			
2-Fluorophenol		23.4	ug/l	50.0		47	3-74			
Nitrobenzene-d5		17.6	ug/l	25.0		70	27-111			
Phenol-d5		15.9	ug/l	50.0		32	0.1-53			
Terphenyl-d14		20.0	ug/l	25.0		80	28-113			



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Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by EPA Method 625 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L1921 - EPA 625 (Continued)										
LCS (W6L1921-BS2)										
				Prepared: 12/19/16 Analyzed: 01/05/17						
Bis(2-ethylhexyl)phthalate	34.1	5.0	ug/l	25.0		137	8-158			QC-2
<i>Surrogate(s)</i>										
2,4,6-Tribromophenol		41.4	ug/l	50.0		83	25-102			QC-2
2-Fluorobiphenyl		18.9	ug/l	25.0		76	22-107			QC-2
2-Fluorophenol		23.8	ug/l	50.0		48	3-74			QC-2
Nitrobenzene-d5		18.0	ug/l	25.0		72	27-111			QC-2
Phenol-d5		15.8	ug/l	50.0		32	0.1-53			QC-2
Terphenyl-d14		19.9	ug/l	25.0		80	28-113			QC-2
LCS Dup (W6L1921-BS1)										
				Prepared: 12/19/16 Analyzed: 12/28/16						
1,2,4-Trichlorobenzene	23.6	1.0	ug/l	25.0		94	44-142	15	30	
1,2-Dichlorobenzene	21.8	1.0	ug/l	25.0		87	32-129	12	30	
1,3-Dichlorobenzene	21.4	1.0	ug/l	25.0		86	0.1-172	11	30	
1,4-Dichlorobenzene	22.4	1.0	ug/l	25.0		90	20-124	9	30	
2,4,6-Trichlorophenol	26.3	1.0	ug/l	25.0		105	37-144	16	30	
2,4-Dichlorophenol	25.0	1.0	ug/l	25.0		100	39-135	18	30	
2,4-Dimethylphenol	14.6	1.0	ug/l	25.0		58	32-119	2	30	
2,4-Dinitrophenol	24.8	10	ug/l	25.0		99	0.1-191	24	30	
2,4-Dinitrotoluene	25.0	1.0	ug/l	25.0		100	39-139	14	30	
2,6-Dinitrotoluene	25.4	1.0	ug/l	25.0		102	50-158	15	30	
2-Chloronaphthalene	24.6	1.0	ug/l	25.0		99	60-118	16	30	
2-Chlorophenol	20.9	1.0	ug/l	25.0		84	23-134	11	30	
2-Nitrophenol	24.2	1.0	ug/l	25.0		97	29-182	16	30	
3,3'-Dichlorobenzidine	21.3	5.0	ug/l	25.0		85	0.1-262	6	30	
4,6-Dinitro-2-methylphenol	27.4	5.0	ug/l	25.0		110	0.1-181	18	30	
4-Bromophenyl phenyl ether	21.7	1.0	ug/l	25.0		87	53-127	13	30	
4-Chloro-3-methylphenol	24.8	1.0	ug/l	25.0		99	22-147	18	30	
4-Chlorophenyl phenyl ether	24.4	1.0	ug/l	25.0		98	25-158	16	30	
4-Nitrophenol	10.3	5.0	ug/l	25.0		41	0.1-132	19	30	
Acenaphthene	24.0	1.0	ug/l	25.0		96	47-145	15	30	
Acenaphthylene	26.6	1.0	ug/l	25.0		106	33-145	17	30	
Anthracene	23.9	1.0	ug/l	25.0		95	27-133	8	30	
Benzo (a) anthracene	29.8	1.0	ug/l	25.0		119	33-143	12	30	
Benzo (a) pyrene	27.1	1.0	ug/l	25.0		108	17-163	4	30	
Benzo (b) fluoranthene	26.4	1.0	ug/l	25.0		106	24-159	9	30	
Benzo (g,h,i) perylene	27.6	2.0	ug/l	25.0		110	0.1-219	13	30	
Benzo (k) fluoranthene	27.7	1.0	ug/l	25.0		111	11-162	4	30	
Bis(2-chloroethoxy)methane	24.0	1.0	ug/l	25.0		96	33-184	19	30	



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Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by EPA Method 625 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1921 - EPA 625 (Continued)										
LCS Dup (W6L1921-BS01)				Prepared: 12/19/16 Analyzed: 12/28/16						
Bis(2-chloroethyl)ether	22.1	1.0	ug/l	25.0		88	12-158	14	30	
Bis(2-chloroisopropyl)ether	23.6	1.0	ug/l	25.0		94	36-166	17	30	
Bis(2-ethylhexyl)phthalate	39.5	5.0	ug/l	25.0		158	8-158	19	30	
Butyl benzyl phthalate	24.8	1.0	ug/l	25.0		99	0.1-152	13	30	
Chrysene	26.1	1.0	ug/l	25.0		104	17-168	9	30	
Dibenzo (a,h) anthracene	16.7	2.0	ug/l	25.0		67	0.1-227	15	30	
Diethyl phthalate	26.0	1.0	ug/l	25.0		104	0.1-114	16	30	
Dimethyl phthalate	26.5	1.0	ug/l	25.0		106	0.1-112	17	30	
Di-n-butyl phthalate	25.5	1.0	ug/l	25.0		102	1-118	8	30	
Di-n-octyl phthalate	22.6	1.0	ug/l	25.0		91	4-146	3	30	
Fluoranthene	26.7	1.0	ug/l	25.0		107	26-137	10	30	
Fluorene	24.5	1.0	ug/l	25.0		98	59-121	14	30	
Hexachlorobenzene	21.6	1.0	ug/l	25.0		87	0.1-152	11	30	
Hexachlorobutadiene	20.9	1.0	ug/l	25.0		84	24-116	11	30	
Hexachlorocyclopentadiene	18.1	5.0	ug/l	25.0		72	0.1-81	23	30	
Hexachloroethane	21.1	1.0	ug/l	25.0		85	40-113	11	30	
Indeno (1,2,3-cd) pyrene	28.9	2.0	ug/l	25.0		116	0.1-171	18	30	
Isophorone	24.9	1.0	ug/l	25.0		100	21-196	18	30	
Naphthalene	23.3	1.0	ug/l	25.0		93	21-133	14	30	
Nitrobenzene	23.2	1.0	ug/l	25.0		93	35-180	19	30	
N-Nitrosodimethylamine	16.1	1.0	ug/l	25.0		64	28-75	14	30	
N-Nitrosodi-n-propylamine	24.9	1.0	ug/l	25.0		100	0.1-230	18	30	
N-Nitrosodiphenylamine	21.0	1.0	ug/l	25.0		84	42-90	10	30	
Pentachlorophenol	25.0	1.0	ug/l	25.0		100	14-176	18	30	
Phenanthrene	24.2	1.0	ug/l	25.0		97	54-120	9	30	
Phenol	9.56	1.0	ug/l	25.0		38	5-112	17	30	
Pyrene	27.4	1.0	ug/l	25.0		110	52-115	11	30	
<i>Surrogate(s)</i>										
2,4,6-Tribromophenol		49.0	ug/l	50.0		98	25-102			
2-Fluorobiphenyl		23.0	ug/l	25.0		92	22-107			
2-Fluorophenol		25.7	ug/l	50.0		51	3-74			
Nitrobenzene-d5		20.7	ug/l	25.0		83	27-111			
Phenol-d5		18.6	ug/l	50.0		37	0.1-53			
Terphenyl-d14		22.1	ug/l	25.0		89	28-113			



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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by EPA Method 625 (Continued)

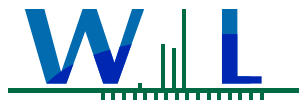
Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
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Batch: W6L1921 - EPA 625 (Continued)

LCS Dup (W6L1921-BSD2)

Prepared: 12/19/16 Analyzed: 01/05/17

Bis(2-ethylhexyl)phthalate	38.7	5.0	ug/l	25.0		155	8-158	13	30	QC-2
<i>Surrogate(s)</i>										
2,4,6-Tribromophenol	44.1		ug/l	50.0		88	25-102			QC-2
2-Fluorobiphenyl	23.6		ug/l	25.0		95	22-107			QC-2
2-Fluorophenol	25.4		ug/l	50.0		51	3-74			QC-2
Nitrobenzene-d5	21.4		ug/l	25.0		85	27-111			QC-2
Phenol-d5	18.2		ug/l	50.0		36	0.1-53			QC-2
Terphenyl-d14	20.0		ug/l	25.0		80	28-113			QC-2



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Quality Control Results

(Continued)

Anions by IC, EPA Method 300.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L2385 - EPA 300.0										
Blank (W6L2385-BLK1)				Prepared & Analyzed: 12/27/16						
Chloride, Total	ND	0.50	mg/l							
Fluoride, Total	ND	0.10	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W6L2385-BS1)				Prepared & Analyzed: 12/27/16						
Chloride, Total	5.22	0.50	mg/l	5.02		104	90-110			
Fluoride, Total	0.977	0.10	mg/l	1.03		95	90-110			
Sulfate as SO4	5.23	0.50	mg/l	5.02		104	90-110			
Matrix Spike (W6L2385-MS1)				Source: 6L16010-01		Prepared & Analyzed: 12/27/16				
Chloride, Total	51.1	5.0	mg/l	50.2	ND	102	76-118			
Fluoride, Total	10.8	1.0	mg/l	10.3	ND	105	86-107			
Sulfate as SO4	51.1	5.0	mg/l	50.2	ND	102	78-111			
Matrix Spike (W6L2385-MS2)				Source: 6L22066-04		Prepared & Analyzed: 12/27/16				
Chloride, Total	147	5.0	mg/l	40.0	103	110	76-118			
Fluoride, Total	20.4	1.0	mg/l	20.0	0.450	100	86-107			
Sulfate as SO4	270	5.0	mg/l	80.0	184	108	78-111			
Matrix Spike Dup (W6L2385-MSD1)				Source: 6L16010-01		Prepared & Analyzed: 12/27/16				
Chloride, Total	51.1	5.0	mg/l	50.2	ND	102	76-118	0.08	20	
Fluoride, Total	10.9	1.0	mg/l	10.3	ND	106	86-107	0.9	20	
Sulfate as SO4	50.7	5.0	mg/l	50.2	ND	101	78-111	0.7	20	
Matrix Spike Dup (W6L2385-MSD2)				Source: 6L22066-04		Prepared & Analyzed: 12/27/16				
Chloride, Total	147	5.0	mg/l	40.0	103	110	76-118	0.007	20	
Fluoride, Total	20.4	1.0	mg/l	20.0	0.450	100	86-107	0.3	20	
Sulfate as SO4	271	5.0	mg/l	80.0	184	109	78-111	0.6	20	



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Quality Control Results

(Continued)

Chlorinated Herbicides

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L1945 - EPA 515.3										
Blank (W6L1945-BLK1)				Prepared: 12/19/16 Analyzed: 12/30/16						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
<i>Surrogate(s)</i>										
2,4-DCAA		9.82	ug/l	10.0		98	70-130			
LCS (W6L1945-BS1)				Prepared: 12/19/16 Analyzed: 12/30/16						
2,4,5-T	4.02	0.20	ug/l	4.00		101	70-130			
2,4,5-TP (Silvex)	4.12	0.20	ug/l	4.00		103	70-130			
2,4-D	8.29	0.40	ug/l	8.00		104	70-130			
2,4-DB	15.4	2.0	ug/l	16.0		96	70-130			
3,5-Dichlorobenzoic acid	8.13	1.0	ug/l	8.00		102	70-130			
Acifluorfen	4.18	0.40	ug/l	4.00		104	70-130			
Bentazon	16.8	2.0	ug/l	16.0		105	70-130			
Dalapon	8.59	0.40	ug/l	8.00		107	70-130			
DCPA	3.96	0.10	ug/l	4.00		99	70-130			
Dicamba	8.03	0.60	ug/l	8.00		100	70-130			
Dichloroprop	8.24	0.30	ug/l	8.00		103	70-130			
Dinoseb	4.08	0.40	ug/l	4.00		102	70-130			
Pentachlorophenol	3.97	0.20	ug/l	4.00		99	70-130			
Picloram	4.16	0.60	ug/l	4.00		104	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		10.4	ug/l	10.0		104	70-130			



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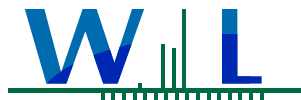
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Quality Control Results

(Continued)

Chlorinated Herbicides (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1945 - EPA 515.3 (Continued)										
Matrix Spike (W6L1945-MS1)	Source: 6L15017-01			Prepared: 12/19/16 Analyzed: 12/30/16						
2,4,5-T	4.05	0.20	ug/l	4.00	ND	101	70-130			
2,4,5-TP (Silvex)	4.33	0.20	ug/l	4.00	ND	108	70-130			
2,4-D	8.26	0.40	ug/l	8.00	ND	103	70-130			
2,4-DB	15.2	2.0	ug/l	16.0	ND	95	70-130			
3,5-Dichlorobenzoic acid	8.28	1.0	ug/l	8.00	ND	103	70-130			
Acifluorfen	4.14	0.40	ug/l	4.00	ND	104	70-130			
Bentazon	16.7	2.0	ug/l	16.0	ND	105	70-130			
Dalapon	8.54	0.40	ug/l	8.00	ND	107	70-130			
DCPA	4.02	0.10	ug/l	4.00	ND	101	70-130			
Dicamba	8.22	0.60	ug/l	8.00	ND	103	70-130			
Dichloroprop	8.45	0.30	ug/l	8.00	ND	106	70-130			
Dinoseb	4.04	0.40	ug/l	4.00	ND	101	70-130			
Pentachlorophenol	4.06	0.20	ug/l	4.00	ND	101	70-130			
Picloram	4.22	0.60	ug/l	4.00	ND	106	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		10.4	ug/l	10.0		104	70-130			
Matrix Spike (W6L1945-MS2)	Source: 6L16009-01			Prepared: 12/19/16 Analyzed: 12/30/16						
2,4,5-T	3.81	0.20	ug/l	4.00	ND	95	70-130			
2,4,5-TP (Silvex)	4.02	0.20	ug/l	4.00	ND	100	70-130			
2,4-D	8.68	0.40	ug/l	8.00	ND	108	70-130			
2,4-DB	15.5	2.0	ug/l	16.0	ND	97	70-130			
3,5-Dichlorobenzoic acid	8.41	1.0	ug/l	8.00	ND	105	70-130			
Acifluorfen	4.23	0.40	ug/l	4.00	ND	106	70-130			
Bentazon	16.6	2.0	ug/l	16.0	ND	104	70-130			
Dalapon	8.18	0.40	ug/l	8.00	ND	102	70-130			
DCPA	3.93	0.10	ug/l	4.00	ND	98	70-130			
Dicamba	7.93	0.60	ug/l	8.00	ND	99	70-130			
Dichloroprop	8.89	0.30	ug/l	8.00	ND	111	70-130			
Dinoseb	4.80	0.40	ug/l	4.00	ND	120	70-130			
Pentachlorophenol	4.05	0.20	ug/l	4.00	0.291	94	70-130			
Picloram	4.23	0.60	ug/l	4.00	ND	106	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		10.3	ug/l	10.0		103	70-130			



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Quality Control Results

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Chlorinated Herbicides (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L1945 - EPA 515.3 (Continued)										
Matrix Spike Dup (W6L1945-MSD1)			Source: 6L15017-01		Prepared: 12/19/16 Analyzed: 12/30/16					
2,4,5-T	3.91	0.20	ug/l	4.00	ND	98	70-130	3	30	
2,4,5-TP (Silvex)	4.07	0.20	ug/l	4.00	ND	102	70-130	6	30	
2,4-D	8.16	0.40	ug/l	8.00	ND	102	70-130	1	30	
2,4-DB	15.3	2.0	ug/l	16.0	ND	96	70-130	0.7	30	
3,5-Dichlorobenzoic acid	8.30	1.0	ug/l	8.00	ND	104	70-130	0.3	30	
Acifluorfen	4.16	0.40	ug/l	4.00	ND	104	70-130	0.3	30	
Bentazon	16.4	2.0	ug/l	16.0	ND	103	70-130	2	30	
Dalapon	8.46	0.40	ug/l	8.00	ND	106	70-130	1	30	
DCPA	4.05	0.10	ug/l	4.00	ND	101	70-130	0.5	30	
Dicamba	8.16	0.60	ug/l	8.00	ND	102	70-130	0.7	30	
Dichloroprop	8.38	0.30	ug/l	8.00	ND	105	70-130	0.8	30	
Dinoseb	4.08	0.40	ug/l	4.00	ND	102	70-130	1	30	
Pentachlorophenol	4.07	0.20	ug/l	4.00	ND	102	70-130	0.4	30	
Picloram	4.15	0.60	ug/l	4.00	ND	104	70-130	2	30	
<i>Surrogate(s)</i>										
2,4-DCAA		10.4	ug/l	10.0		104	70-130			
Matrix Spike Dup (W6L1945-MSD2)			Source: 6L16009-01		Prepared: 12/19/16 Analyzed: 12/30/16					
2,4,5-T	3.92	0.20	ug/l	4.00	ND	98	70-130	3	30	
2,4,5-TP (Silvex)	4.12	0.20	ug/l	4.00	ND	103	70-130	2	30	
2,4-D	8.73	0.40	ug/l	8.00	ND	109	70-130	0.6	30	
2,4-DB	16.0	2.0	ug/l	16.0	ND	100	70-130	3	30	
3,5-Dichlorobenzoic acid	8.46	1.0	ug/l	8.00	ND	106	70-130	0.5	30	
Acifluorfen	4.51	0.40	ug/l	4.00	ND	113	70-130	6	30	
Bentazon	17.2	2.0	ug/l	16.0	ND	108	70-130	4	30	
Dalapon	8.48	0.40	ug/l	8.00	ND	106	70-130	4	30	
DCPA	4.05	0.10	ug/l	4.00	ND	101	70-130	3	30	
Dicamba	7.93	0.60	ug/l	8.00	ND	99	70-130	0.03	30	
Dichloroprop	8.91	0.30	ug/l	8.00	ND	111	70-130	0.2	30	
Dinoseb	4.82	0.40	ug/l	4.00	ND	120	70-130	0.3	30	
Pentachlorophenol	4.09	0.20	ug/l	4.00	0.291	95	70-130	1	30	
Picloram	4.28	0.60	ug/l	4.00	ND	107	70-130	1	30	
<i>Surrogate(s)</i>										
2,4-DCAA		10.5	ug/l	10.0		105	70-130			



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Quality Control Results

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Chlorinated Pesticides and/or PCBs (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2016 - EPA 608										
Blank (W6L2016-BLK1)				Prepared: 12/21/16 Analyzed: 01/06/17						
2,4'-DDD	ND	5.0	ng/l							
2,4'-DDE	ND	5.0	ng/l							
2,4'-DDT	ND	5.0	ng/l							
4,4'-DDD	ND	5.0	ng/l							
4,4'-DDE	ND	5.0	ng/l							
4,4'-DDT	ND	5.0	ng/l							
Aldrin	ND	5.0	ng/l							
alpha-BHC	ND	5.0	ng/l							
alpha-Chlordane	ND	5.0	ng/l							
Aroclor 1016	ND	100	ng/l							
Aroclor 1221	ND	100	ng/l							
Aroclor 1232	ND	100	ng/l							
Aroclor 1242	ND	100	ng/l							
Aroclor 1248	ND	100	ng/l							
Aroclor 1254	ND	100	ng/l							
Aroclor 1260	ND	100	ng/l							
beta-BHC	ND	5.0	ng/l							
Chlordane (tech)	ND	100	ng/l							
cis-Nonachlor	ND	5.0	ng/l							
delta-BHC	ND	5.0	ng/l							
Dieldrin	ND	5.0	ng/l							
Endosulfan I	ND	5.0	ng/l							
Endosulfan II	ND	5.0	ng/l							
Endosulfan sulfate	ND	5.0	ng/l							
Endrin	ND	5.0	ng/l							
Endrin aldehyde	ND	5.0	ng/l							
gamma-BHC (Lindane)	ND	5.0	ng/l							
gamma-Chlordane	ND	5.0	ng/l							
Heptachlor	ND	5.0	ng/l							
Heptachlor epoxide	ND	5.0	ng/l							
Methoxychlor	ND	5.0	ng/l							
Mirex	ND	5.0	ng/l							
Toxaphene	ND	500	ng/l							
trans-Nonachlor	ND	5.0	ng/l							
<i>Surrogate(s)</i>										
Decachlorobiphenyl		65.2	ng/l	100		65	0.1-118			
Tetrachloro-meta-xylene		64.1	ng/l	100		64	12-117			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2016 - EPA 608 (Continued)										
LCS (W6L2016-BS1)				Prepared: 12/21/16 Analyzed: 01/06/17						
4,4'-DDD	89.4	5.0	ng/l	100		89	42-133			
4,4'-DDE	89.8	5.0	ng/l	100		90	33-126			
4,4'-DDT	116	5.0	ng/l	100		116	35-147			
Aldrin	85.3	5.0	ng/l	100		85	18-117			
alpha-BHC	80.2	5.0	ng/l	100		80	47-119			
beta-BHC	93.2	5.0	ng/l	100		93	53-123			
delta-BHC	103	5.0	ng/l	100		103	51-123			
Dieldrin	99.7	5.0	ng/l	100		100	48-123			
Endosulfan I	85.6	5.0	ng/l	100		86	14-131			
Endosulfan II	71.3	5.0	ng/l	100		71	40-121			
Endosulfan sulfate	91.0	5.0	ng/l	100		91	44-140			
Endrin	115	5.0	ng/l	100		115	40-143			
Endrin aldehyde	88.1	5.0	ng/l	100		88	18-136			
gamma-BHC (Lindane)	91.1	5.0	ng/l	100		91	49-117			
Heptachlor	102	5.0	ng/l	100		102	31-130			
Heptachlor epoxide	106	5.0	ng/l	100		106	49-122			
<i>Surrogate(s)</i>										
Decachlorobiphenyl		86.2	ng/l	100		86	0.1-118			
Tetrachloro-meta-xylene		87.0	ng/l	100		87	12-117			

LCS Dup (W6L2016-BS1)				Prepared: 12/21/16 Analyzed: 01/06/17						
4,4'-DDD	98.7	5.0	ng/l	100		99	42-133	10	30	
4,4'-DDE	93.1	5.0	ng/l	100		93	33-126	4	30	
4,4'-DDT	121	5.0	ng/l	100		121	35-147	4	30	
Aldrin	89.1	5.0	ng/l	100		89	18-117	4	30	
alpha-BHC	83.8	5.0	ng/l	100		84	47-119	4	30	
beta-BHC	103	5.0	ng/l	100		103	53-123	10	30	
delta-BHC	105	5.0	ng/l	100		105	51-123	2	30	
Dieldrin	103	5.0	ng/l	100		103	48-123	4	30	
Endosulfan I	87.2	5.0	ng/l	100		87	14-131	2	30	
Endosulfan II	76.9	5.0	ng/l	100		77	40-121	8	30	
Endosulfan sulfate	95.9	5.0	ng/l	100		96	44-140	5	30	
Endrin	117	5.0	ng/l	100		117	40-143	1	30	
Endrin aldehyde	86.7	5.0	ng/l	100		87	18-136	2	30	
gamma-BHC (Lindane)	98.0	5.0	ng/l	100		98	49-117	7	30	
Heptachlor	110	5.0	ng/l	100		110	31-130	7	30	
Heptachlor epoxide	107	5.0	ng/l	100		107	49-122	0.7	30	
<i>Surrogate(s)</i>										



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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
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Batch: W6L2016 - EPA 608 (Continued)

LCS Dup (W6L2016-BS01)

Prepared: 12/21/16 Analyzed: 01/06/17

Surrogate(s)

Decachlorobiphenyl	88.5	ng/l	100	88	0.1-118
Tetrachloro-meta-xylene	84.1	ng/l	100	84	12-117

Matrix Spike (W6L2016-MS1)

Source: 6L17005-01

Prepared: 12/21/16 Analyzed: 01/07/17

4,4'-DDD	53.5	50	ng/l	100	ND	53	23-124			M-04
4,4'-DDE	53.9	50	ng/l	100	ND	54	30-114			M-04
4,4'-DDT	95.4	50	ng/l	100	ND	95	11-151			M-04
Aldrin	60.1	50	ng/l	100	ND	60	18-110			M-04
alpha-BHC	72.8	50	ng/l	100	ND	73	43-114			M-04
beta-BHC	73.4	50	ng/l	100	ND	73	24-135			M-04
delta-BHC	70.4	50	ng/l	100	ND	70	37-122			M-04
Dieldrin	57.6	50	ng/l	100	ND	58	27-132			M-04
Endosulfan I	43.7	50	ng/l	100	ND	44	0.1-140			M-04
Endosulfan II	45.8	50	ng/l	100	ND	46	17-122			M-04
Endosulfan sulfate	71.1	50	ng/l	100	ND	71	37-131			M-04
Endrin	81.5	50	ng/l	100	ND	81	42-144			M-04
Endrin aldehyde	55.7	50	ng/l	100	ND	56	11-113			M-04
gamma-BHC (Lindane)	67.8	50	ng/l	100	ND	68	33-112			M-04
Heptachlor	56.8	50	ng/l	100	ND	57	28-131			M-04
Heptachlor epoxide	54.8	50	ng/l	100	ND	55	36-117			M-04
<i>Surrogate(s)</i>										
Decachlorobiphenyl	50.9	ng/l	100	51	0.1-118					M-04
Tetrachloro-meta-xylene	61.3	ng/l	100	61	12-117					M-04

Matrix Spike Dup (W6L2016-MSD1)

Source: 6L17005-01

Prepared: 12/21/16 Analyzed: 01/07/17

4,4'-DDD	47.3	50	ng/l	100	ND	47	23-124	12	30	M-04
4,4'-DDE	50.8	50	ng/l	100	ND	51	30-114	6	30	M-04
4,4'-DDT	84.5	50	ng/l	100	ND	84	11-151	12	30	M-04
Aldrin	61.6	50	ng/l	100	ND	62	18-110	3	30	M-04
alpha-BHC	69.2	50	ng/l	100	ND	69	43-114	5	30	M-04
beta-BHC	60.9	50	ng/l	100	ND	61	24-135	19	30	M-04
delta-BHC	62.1	50	ng/l	100	ND	62	37-122	13	30	M-04
Dieldrin	49.9	50	ng/l	100	ND	50	27-132	14	30	M-04
Endosulfan I	37.8	50	ng/l	100	ND	38	0.1-140	15	30	M-04
Endosulfan II	42.2	50	ng/l	100	ND	42	17-122	8	30	M-04
Endosulfan sulfate	57.4	50	ng/l	100	ND	57	37-131	21	30	M-04
Endrin	79.8	50	ng/l	100	ND	80	42-144	2	30	M-04
Endrin aldehyde	66.8	50	ng/l	100	ND	67	11-113	18	30	M-04
gamma-BHC (Lindane)	60.3	50	ng/l	100	ND	60	33-112	12	30	M-04

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(Continued)

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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L2016 - EPA 608 (Continued)										
Matrix Spike Dup (W6L2016-MSD1)			Source: 6L17005-01		Prepared: 12/21/16 Analyzed: 01/07/17					
Heptachlor	52.9	50	ng/l	100	ND	53	28-131	7	30	M-04
Heptachlor epoxide	49.5	50	ng/l	100	ND	49	36-117	10	30	M-04
<i>Surrogate(s)</i>										
Decachlorobiphenyl		49.1	ng/l	100		49	0.1-118			M-04
Tetrachloro-meta-xylene		52.9	ng/l	100		53	12-117			M-04



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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1835 - SM 5210B										
LCS (W6L1835-BS1)				Prepared: 12/16/16 Analyzed: 12/21/16						
Biochemical Oxygen Demand	195	2.0	mg/l	198		98	85-115			
Duplicate (W6L1835-DUP1)				Source: 6L16017-02 Prepared: 12/16/16 Analyzed: 12/21/16						
Biochemical Oxygen Demand	ND	2.0	mg/l		ND				20	
Batch: W6L1880 - SM 5540C										
Blank (W6L1880-BLK1)				Prepared & Analyzed: 12/17/16						
MBAS	ND	0.050	mg/l							
LCS (W6L1880-BS1)				Prepared & Analyzed: 12/17/16						
MBAS	0.212	0.050	mg/l	0.200		106	82-115			
LCS Dup (W6L1880-BSD1)				Prepared & Analyzed: 12/17/16						
MBAS	0.219	0.050	mg/l	0.200		109	82-115	3	20	
Matrix Spike (W6L1880-MS1)				Source: 6L16010-05 Prepared & Analyzed: 12/17/16						
MBAS	0.303	0.050	mg/l	0.200	0.0933	105	74-123			
Matrix Spike Dup (W6L1880-MSD1)				Source: 6L16010-05 Prepared & Analyzed: 12/17/16						
MBAS	0.302	0.050	mg/l	0.200	0.0933	104	74-123	0.3	20	
Batch: W6L1887 - EPA 180.1										
Blank (W6L1887-BLK1)				Prepared & Analyzed: 12/17/16						
Turbidity	ND	0.10	NTU							



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(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1887 - EPA 180.1 (Continued)										
LCS (W6L1887-BS1)				Prepared & Analyzed: 12/17/16						
Turbidity	7.55	0.10	NTU	7.36		103	90-110			
Duplicate (W6L1887-DUP1)				Source: 6L16009-01 Prepared & Analyzed: 12/17/16						
Turbidity	8.76	0.10	NTU		8.96			2	10	
Batch: W6L1905 - SM 2540C										
Blank (W6L1905-BLK1)				Prepared: 12/18/16 Analyzed: 12/20/16						
Total Dissolved Solids	ND	10	mg/l							
LCS (W6L1905-BS1)				Prepared: 12/18/16 Analyzed: 12/20/16						
Total Dissolved Solids	837	10	mg/l	824		102	96-102			
Duplicate (W6L1905-DUP1)				Source: 6L15004-01 Prepared: 12/18/16 Analyzed: 12/20/16						
Total Dissolved Solids	1720	10	mg/l		1630			5	10	
Duplicate (W6L1905-DUP2)				Source: 6L16106-01 Prepared: 12/18/16 Analyzed: 12/20/16						
Total Dissolved Solids	960	10	mg/l		944			2	10	
Batch: W6L1957 - EPA 351.2										
Blank (W6L1957-BLK1)				Prepared: 12/19/16 Analyzed: 12/21/16						
TKN	ND	0.10	mg/l							
Blank (W6L1957-BLK2)				Prepared: 12/19/16 Analyzed: 12/21/16						
TKN	ND	0.10	mg/l							



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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L1957 - EPA 351.2 (Continued)										
LCS (W6L1957-BS1)				Prepared: 12/19/16 Analyzed: 12/21/16						
TKN	1.07	0.10	mg/l	1.00		107	90-110			
LCS (W6L1957-BS2)				Prepared: 12/19/16 Analyzed: 12/21/16						
TKN	1.07	0.10	mg/l	1.00		107	90-110			
Matrix Spike (W6L1957-MS1)				Source: 6L15062-01 Prepared: 12/19/16 Analyzed: 12/21/16						
TKN	1.32	0.10	mg/l	1.00	0.247	107	90-110			
Matrix Spike (W6L1957-MS2)				Source: 6L15062-02 Prepared: 12/19/16 Analyzed: 12/21/16						
TKN	1.32	0.10	mg/l	1.00	0.227	109	90-110			
Matrix Spike Dup (W6L1957-MSD1)				Source: 6L15062-01 Prepared: 12/19/16 Analyzed: 12/21/16						
TKN	1.33	0.10	mg/l	1.00	0.247	108	90-110	0.8	10	
Matrix Spike Dup (W6L1957-MSD2)				Source: 6L15062-02 Prepared: 12/19/16 Analyzed: 12/21/16						
TKN	1.30	0.10	mg/l	1.00	0.227	107	90-110	1	10	
Batch: W6L1970 - EPA 365.1										
Blank (W6L1970-BLK1)				Prepared: 12/19/16 Analyzed: 12/22/16						
Phosphorus as P, Total	ND	0.010	mg/l							
LCS (W6L1970-BS1)				Prepared: 12/19/16 Analyzed: 12/22/16						
Phosphorus as P, Total	0.0517	0.010	mg/l	0.0500		103	90-110			
Matrix Spike (W6L1970-MS1)				Source: 6L16009-05 Prepared: 12/19/16 Analyzed: 12/22/16						
Phosphorus as P, Total	0.258	0.020	mg/l	0.0500	0.212	92	90-110			



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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1970 - EPA 365.1 (Continued)										
Matrix Spike (W6L1970-MS2)	Source: 6L16010-05			Prepared: 12/19/16 Analyzed: 12/22/16						
Phosphorus as P, Total	0.135	0.010	mg/l	0.0500	0.0892	92	90-110			
Matrix Spike Dup (W6L1970-MSD1)	Source: 6L16009-05			Prepared: 12/19/16 Analyzed: 12/22/16						
Phosphorus as P, Total	0.258	0.020	mg/l	0.0500	0.212	92	90-110	0	20	
Matrix Spike Dup (W6L1970-MSD2)	Source: 6L16010-05			Prepared: 12/19/16 Analyzed: 12/22/16						
Phosphorus as P, Total	0.136	0.010	mg/l	0.0500	0.0892	94	90-110	0.7	20	
Batch: W6L2004 - EPA 420.4										
Blank (W6L2004-BLK1)	Prepared: 12/20/16 Analyzed: 12/28/16									
Phenolics	ND	0.010	mg/l							
LCS (W6L2004-BS1)	Prepared: 12/20/16 Analyzed: 12/28/16									
Phenolics	0.0987	0.010	mg/l	0.100		99	90-110			
Matrix Spike (W6L2004-MS1)	Source: 6L16010-05			Prepared: 12/20/16 Analyzed: 12/28/16						
Phenolics	0.241	0.010	mg/l	0.250	ND	96	90-110			
Matrix Spike Dup (W6L2004-MSD1)	Source: 6L16010-05			Prepared: 12/20/16 Analyzed: 12/28/16						
Phenolics	0.244	0.010	mg/l	0.250	ND	98	90-110	1	20	
Batch: W6L2006 - EPA 353.2										
Blank (W6L2006-BLK1)	Prepared & Analyzed: 12/20/16									
NO2+NO3 as N	ND	100	ug/l							



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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L2006 - EPA 353.2 (Continued)										
LCS (W6L2006-BS1)				Prepared & Analyzed: 12/20/16						
NO2+NO3 as N	980	100	ug/l	1000		98	90-110			
Matrix Spike (W6L2006-MS1)				Source: 6L16030-01 Prepared & Analyzed: 12/20/16						
NO2+NO3 as N	2100	100	ug/l	2000	175	96	90-110			
Matrix Spike (W6L2006-MS2)				Source: 6L16030-02 Prepared & Analyzed: 12/20/16						
NO2+NO3 as N	2080	100	ug/l	2000	242	92	90-110			
Matrix Spike Dup (W6L2006-MSD1)				Source: 6L16030-01 Prepared & Analyzed: 12/20/16						
NO2+NO3 as N	2130	100	ug/l	2000	175	98	90-110	1	20	
Matrix Spike Dup (W6L2006-MSD2)				Source: 6L16030-02 Prepared & Analyzed: 12/20/16						
NO2+NO3 as N	2100	100	ug/l	2000	242	93	90-110	0.7	20	
Batch: W6L2026 - SM 2510B										
Blank (W6L2026-BLK1)				Prepared & Analyzed: 12/20/16						
Specific Conductance (EC)	ND	2.0	umhos/cm							
LCS (W6L2026-BS1)				Prepared & Analyzed: 12/20/16						
Specific Conductance (EC)	198	2.0	umhos/cm	200		99	95-105			
Duplicate (W6L2026-DUP1)				Source: 6L15055-01 Prepared & Analyzed: 12/20/16						
Specific Conductance (EC)	725	2.0	umhos/cm		727			0.3	5	
Batch: W6L2133 - SM 5310C										
Blank (W6L2133-BLK1)				Prepared & Analyzed: 12/21/16						
Total Organic Carbon (TOC)	ND	0.30	mg/l							



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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L2133 - SM 5310C (Continued)										
LCS (W6L2133-BS1)				Prepared & Analyzed: 12/21/16						
Total Organic Carbon (TOC)	4.96	0.30	mg/l	5.00		99	85-115			
Matrix Spike (W6L2133-MS1)				Source: 6L16010-01 Prepared & Analyzed: 12/21/16						
Total Organic Carbon (TOC)	6.36	0.30	mg/l	5.00	1.58	96	80-116			
Matrix Spike Dup (W6L2133-MSD1)				Source: 6L16010-01 Prepared & Analyzed: 12/21/16						
Total Organic Carbon (TOC)	6.69	0.30	mg/l	5.00	1.58	102	80-116	5	20	
Batch: W6L2145 - SM 2540D										
Blank (W6L2145-BLK1)				Prepared & Analyzed: 12/21/16						
Total Suspended Solids	ND	5	mg/l							
LCS (W6L2145-BS1)				Prepared & Analyzed: 12/21/16						
Total Suspended Solids	63.0	5	mg/l	60.8		104	90-110			
Duplicate (W6L2145-DUP1)				Source: 6L16061-01 Prepared & Analyzed: 12/21/16						
Total Suspended Solids	328	5	mg/l		327			0.3	20	
Duplicate (W6L2145-DUP2)				Source: 6L16061-09 Prepared & Analyzed: 12/21/16						
Total Suspended Solids	92.0	5	mg/l		93.0			1	20	
Batch: W6L2146 - EPA 160.4										
Blank (W6L2146-BLK1)				Prepared & Analyzed: 12/21/16						
Volatile Suspended Solids	ND	5.0	mg/l							



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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6L2146 - EPA 160.4 (Continued)										
Duplicate (W6L2146-DUP1)	Source: 6L16061-01			Prepared & Analyzed: 12/21/16						
Volatile Suspended Solids	53	5.0	mg/l		48			10	15	
Duplicate (W6L2146-DUP2)	Source: 6L16061-09			Prepared & Analyzed: 12/21/16						
Volatile Suspended Solids	27	5.0	mg/l		29			7	15	
Batch: W6L2224 - SM 5310C										
Blank (W6L2224-BLK1)	Prepared & Analyzed: 12/22/16									
Total Organic Carbon (TOC)	ND	0.30	mg/l							
LCS (W6L2224-BS1)	Prepared & Analyzed: 12/22/16									
Total Organic Carbon (TOC)	4.98	0.30	mg/l	5.00		100	85-115			
LCS Dup (W6L2224-BSD1)	Prepared & Analyzed: 12/22/16									
Total Organic Carbon (TOC)	4.99	0.30	mg/l	5.00		100	85-115	0.1	20	
Batch: W6L2318 - EPA 410.4										
Blank (W6L2318-BLK1)	Prepared: 12/23/16 Analyzed: 12/30/16									
Chemical Oxygen Demand	ND	5.0	mg/l							
LCS (W6L2318-BS1)	Prepared: 12/23/16 Analyzed: 12/30/16									
Chemical Oxygen Demand	106	5.0	mg/l	100		106	90-110			
Duplicate (W6L2318-DUP1)	Source: 6L17012-01			Prepared: 12/23/16 Analyzed: 12/30/16						
Chemical Oxygen Demand	633	10	mg/l		660			4	15	



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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2318 - EPA 410.4 (Continued)										
Matrix Spike (W6L2318-MS1)	Source: 6L16044-01			Prepared: 12/23/16	Analyzed: 12/30/16					
Chemical Oxygen Demand	199	10	mg/l	200	9.39	95	90-110			
Matrix Spike (W6L2318-MS2)	Source: 6L16044-02			Prepared: 12/23/16	Analyzed: 12/30/16					
Chemical Oxygen Demand	207	10	mg/l	200	8.30	100	90-110			
Matrix Spike Dup (W6L2318-MSD1)	Source: 6L16044-01			Prepared: 12/23/16	Analyzed: 12/30/16					
Chemical Oxygen Demand	204	10	mg/l	200	9.39	97	90-110	3	15	
Matrix Spike Dup (W6L2318-MSD2)	Source: 6L16044-02			Prepared: 12/23/16	Analyzed: 12/30/16					
Chemical Oxygen Demand	214	10	mg/l	200	8.30	103	90-110	3	15	
Batch: W6L2319 - EPA 350.1										
Blank (W6L2319-BLK1)				Prepared: 12/23/16	Analyzed: 12/28/16					
Ammonia as N	ND	0.10	mg/l							
Blank (W6L2319-BLK2)				Prepared: 12/23/16	Analyzed: 12/28/16					
Ammonia as N	ND	0.10	mg/l							
LCS (W6L2319-BS1)				Prepared: 12/23/16	Analyzed: 12/28/16					
Ammonia as N	0.249	0.10	mg/l	0.250		99	90-110			
LCS (W6L2319-BS2)				Prepared: 12/23/16	Analyzed: 12/28/16					
Ammonia as N	0.247	0.10	mg/l	0.250		99	90-110			
Matrix Spike (W6L2319-MS1)	Source: 6L16137-01			Prepared: 12/23/16	Analyzed: 12/28/16					
Ammonia as N	0.568	0.10	mg/l	0.250	0.341	91	90-110			



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(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6L2319 - EPA 350.1 (Continued)										
Matrix Spike (W6L2319-MS2)	Source: 6L16137-02		Prepared: 12/23/16 Analyzed: 12/28/16							
Ammonia as N	0.490	0.10	mg/l	0.250	0.258	93	90-110			
Matrix Spike Dup (W6L2319-MSD1)	Source: 6L16137-01		Prepared: 12/23/16 Analyzed: 12/28/16							
Ammonia as N	0.578	0.10	mg/l	0.250	0.341	95	90-110	2	15	
Matrix Spike Dup (W6L2319-MSD2)	Source: 6L16137-02		Prepared: 12/23/16 Analyzed: 12/28/16							
Ammonia as N	0.490	0.10	mg/l	0.250	0.258	93	90-110	0.02	15	
Batch: W6L2346 - EPA 365.3										
Blank (W6L2346-BLK1)	Prepared: 12/24/16 Analyzed: 12/30/16									
Phosphorus, Dissolved	ND	0.010	mg/l							
LCS (W6L2346-BS1)	Prepared: 12/24/16 Analyzed: 12/30/16									
Phosphorus, Dissolved	0.205	0.010	mg/l	0.200		102	90-110			
Matrix Spike (W6L2346-MS1)	Source: 6L16010-05		Prepared: 12/24/16 Analyzed: 12/30/16							
Phosphorus, Dissolved	0.261	0.010	mg/l	0.200	0.0551	103	90-110			
Matrix Spike Dup (W6L2346-MSD1)	Source: 6L16010-05		Prepared: 12/24/16 Analyzed: 12/30/16							
Phosphorus, Dissolved	0.263	0.010	mg/l	0.200	0.0551	104	90-110	0.6	20	
Batch: W6L2378 - ASTM D7511										
Blank (W6L2378-BLK1)	Prepared & Analyzed: 12/27/16									
Cyanide, Total	ND	2.0	ug/l							



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Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6L2378 - ASTM D7511 (Continued)										
LCS (W6L2378-BS1)				Prepared & Analyzed: 12/27/16						
Cyanide, Total	47.0	2.0	ug/l	50.0		94	84-116			
LCS Dup (W6L2378-BSD1)				Prepared & Analyzed: 12/27/16						
Cyanide, Total	46.9	2.0	ug/l	50.0		94	84-116	0.2	12	
Matrix Spike (W6L2378-MS1)				Source: 6L16010-05 Prepared & Analyzed: 12/27/16						
Cyanide, Total	50.8	2.0	ug/l	50.0	ND	102	64-136			
Matrix Spike (W6L2378-MS2)				Source: 6L17005-13 Prepared & Analyzed: 12/27/16						
Cyanide, Total	53.2	2.0	ug/l	50.0	ND	106	64-136			
Matrix Spike Dup (W6L2378-MSD1)				Source: 6L16010-05 Prepared & Analyzed: 12/27/16						
Cyanide, Total	52.7	2.0	ug/l	50.0	ND	105	64-136	4	47	
Matrix Spike Dup (W6L2378-MSD2)				Source: 6L17005-13 Prepared & Analyzed: 12/27/16						
Cyanide, Total	53.5	2.0	ug/l	50.0	ND	107	64-136	0.4	47	
Batch: W6L2381 - SM 2320B										
Blank (W6L2381-BLK1)				Prepared: 12/27/16 Analyzed: 12/28/16						
Alkalinity as CaCO3	ND	2.0	mg/l							
LCS (W6L2381-BS1)				Prepared: 12/27/16 Analyzed: 12/28/16						
Alkalinity as CaCO3	260	2.0	mg/l	250		104	94-108			
Duplicate (W6L2381-DUP1)				Source: 6L16009-01 Prepared: 12/27/16 Analyzed: 12/28/16						
Alkalinity as CaCO3	25.8	2.0	mg/l		25.8			0	15	



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(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W7A1354 - EPA 1664A										
Blank (W7A1354-BLK1)				Prepared & Analyzed: 01/05/17						
Oil & Grease (HEM)	ND	5.0	mg/l							
LCS (W7A1354-BS1)				Prepared & Analyzed: 01/05/17						
Oil & Grease (HEM)	16.6	5.0	mg/l	20.0		83	78-114			
LCS (W7A1354-BS2)				Prepared & Analyzed: 01/05/17						
Oil & Grease (HEM)	5.70	5.0	mg/l	5.00		114	78-114			
LCS Dup (W7A1354-BSD1)				Prepared & Analyzed: 01/05/17						
Oil & Grease (HEM)	17.0	5.0	mg/l	20.0		85	78-114	2	18	
Matrix Spike (W7A1354-MS1)				Prepared & Analyzed: 01/05/17						
Oil & Grease (HEM)	20.4	5.0	mg/l	21.7	3.10	80	78-114			



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Quality Control Results

(Continued)

Glyphosate by EPA 547

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L1922 - EPA 547										
Blank (W6L1922-BLK1)				Prepared & Analyzed: 12/19/16						
Glyphosate	ND	5.0	ug/l							
Blank (W6L1922-BLK2)				Prepared & Analyzed: 12/19/16						
Glyphosate	ND	5.0	ug/l							
LCS (W6L1922-BS1)				Prepared & Analyzed: 12/19/16						
Glyphosate	19.9	5.0	ug/l	25.0		80	70-130			
LCS (W6L1922-BS2)				Prepared & Analyzed: 12/19/16						
Glyphosate	21.2	5.0	ug/l	25.0		85	70-130			
Matrix Spike (W6L1922-MS1)				Prepared & Analyzed: 12/19/16						
Glyphosate	21.3	5.0	ug/l	25.0	2.50	75	41-149			
Matrix Spike (W6L1922-MS2)				Prepared & Analyzed: 12/19/16						
Glyphosate	23.4	5.0	ug/l	25.0	ND	94	41-149			
Matrix Spike Dup (W6L1922-MSD1)				Prepared & Analyzed: 12/19/16						
Glyphosate	21.4	5.0	ug/l	25.0	2.50	76	41-149	0.9	30	
Matrix Spike Dup (W6L1922-MSD2)				Prepared & Analyzed: 12/19/16						
Glyphosate	21.6	5.0	ug/l	25.0	ND	86	41-149	8	30	



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(Continued)

Hexavalent Chromium by IC

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L2448 - EPA 218.6										
Blank (W6L2448-BLK1)				Prepared: 12/27/16 Analyzed: 12/28/16						
Chromium 6+	ND	0.020	ug/l							
LCS (W6L2448-BS1)				Prepared: 12/27/16 Analyzed: 12/28/16						
Chromium 6+	5.08	0.020	ug/l	5.00		102	90-110			
Matrix Spike (W6L2448-MS1)				Source: 6L12003-02 Prepared: 12/27/16 Analyzed: 12/28/16						
Chromium 6+	4.83	0.020	ug/l	5.00	0.313	90	88-112			
Matrix Spike (W6L2448-MS2)				Source: 6L12003-04 Prepared: 12/27/16 Analyzed: 12/28/16						
Chromium 6+	4.96	0.020	ug/l	5.00	0.241	94	88-112			
Matrix Spike Dup (W6L2448-MSD1)				Source: 6L12003-02 Prepared: 12/27/16 Analyzed: 12/28/16						
Chromium 6+	4.76	0.020	ug/l	5.00	0.313	89	88-112	2	10	
Matrix Spike Dup (W6L2448-MSD2)				Source: 6L12003-04 Prepared: 12/27/16 Analyzed: 12/28/16						
Chromium 6+	4.89	0.020	ug/l	5.00	0.241	93	88-112	1	10	
Batch: W6L2644 - EPA 218.6										
Blank (W6L2644-BLK1)				Prepared: 12/30/16 Analyzed: 01/05/17						
Chromium 6+, Dissolved	ND	0.020	ug/l							
LCS (W6L2644-BS1)				Prepared & Analyzed: 12/30/16						
Chromium 6+, Dissolved	4.66	0.020	ug/l	5.00		93	90-110			
LCS Dup (W6L2644-BSD1)				Prepared & Analyzed: 12/30/16						
Chromium 6+, Dissolved	4.79	0.020	ug/l	5.00		96	90-110	3	10	



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Hexavalent Chromium by IC (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
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Batch: W6L2644 - EPA 218.6 (Continued)

Matrix Spike (W6L2644-MS1)

Source: 6L20118-01

Prepared & Analyzed: 12/30/16

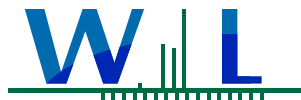
Chromium 6+, Dissolved	4.99	0.020	ug/l	5.00	ND	100	88-112			
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Matrix Spike Dup (W6L2644-MSD1)

Source: 6L20118-01

Prepared & Analyzed: 12/30/16

Chromium 6+, Dissolved	4.71	0.020	ug/l	5.00	ND	94	88-112	6	10	
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Hydrocarbons by EPA 8015D

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
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Batch: W6L1924 - EPA 8015D

Blank (W6L1924-BLK1)

Prepared: 12/19/16 Analyzed: 12/22/16

Diesel Range Organics	ND	0.10	mg/l							
Oil Range Organics	ND	0.50	mg/l							
Surrogate(s)										
<i>n</i> -Tetracosane		0.268	mg/l	0.250		107	64-155			

LCS (W6L1924-BS1)

Prepared: 12/19/16 Analyzed: 12/22/16

Diesel Range Organics	0.468	0.10	mg/l	0.500		94	56-136			
Surrogate(s)										
<i>n</i> -Tetracosane		0.263	mg/l	0.250		105	64-155			

LCS Dup (W6L1924-BSD1)

Prepared: 12/19/16 Analyzed: 12/22/16

Diesel Range Organics	0.568	0.10	mg/l	0.500		114	56-136	19	25	
Surrogate(s)										
<i>n</i> -Tetracosane		0.269	mg/l	0.250		108	64-155			

Batch: W6L2033 - EPA 8015D

Blank (W6L2033-BLK1)

Prepared & Analyzed: 12/20/16

Gasoline Range Organics	ND	0.10	mg/l							
Surrogate(s)										
4-Bromofluorobenzene		0.0460	mg/l	0.0500		92	72-124			

LCS (W6L2033-BS1)

Prepared & Analyzed: 12/20/16

Gasoline Range Organics	0.938	0.10	mg/l	1.00		94	75-123			
Surrogate(s)										
4-Bromofluorobenzene		0.0520	mg/l	0.0500		104	72-124			

LCS Dup (W6L2033-BSD1)

Prepared & Analyzed: 12/20/16

Gasoline Range Organics	1.08	0.10	mg/l	1.00		108	75-123	15	25	
Surrogate(s)										
4-Bromofluorobenzene		0.0420	mg/l	0.0500		84	72-124			



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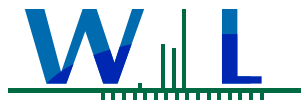
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Quality Control Results

(Continued)

Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2423 - EPA 200.8										
Blank (W6L2423-BLK1)				Prepared: 12/27/16 Analyzed: 01/04/17						
Aluminum, Dissolved	ND	5.0	ug/l							
Aluminum, Total	ND	5.0	ug/l							
Antimony, Dissolved	ND	0.50	ug/l							
Antimony, Total	ND	0.50	ug/l							
Arsenic, Dissolved	ND	0.40	ug/l							
Arsenic, Total	ND	0.40	ug/l							
Beryllium, Dissolved	ND	0.10	ug/l							
Beryllium, Total	ND	0.10	ug/l							
Cadmium, Dissolved	ND	0.10	ug/l							
Cadmium, Total	ND	0.10	ug/l							
Chromium, Dissolved	ND	0.20	ug/l							
Chromium, Total	ND	0.20	ug/l							
Copper, Dissolved	ND	0.50	ug/l							
Copper, Total	ND	0.50	ug/l							
Iron, Dissolved	ND	20	ug/l							
Iron, Total	ND	20	ug/l							
Lead, Dissolved	ND	0.20	ug/l							
Lead, Total	ND	0.20	ug/l							
Nickel, Dissolved	ND	0.80	ug/l							
Nickel, Total	ND	0.80	ug/l							
Selenium, Dissolved	ND	0.40	ug/l							
Selenium, Total	ND	0.40	ug/l							
Silver, Dissolved	ND	0.20	ug/l							
Silver, Total	ND	0.20	ug/l							
Thallium, Dissolved	ND	0.20	ug/l							
Thallium, Total	ND	0.20	ug/l							
Zinc, Dissolved	ND	5.0	ug/l							
Zinc, Total	ND	5.0	ug/l							



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Quality Control Results

(Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6L2423 - EPA 200.8 (Continued)										
LCS (W6L2423-BS1)				Prepared: 12/27/16 Analyzed: 01/04/17						
Aluminum, Dissolved	51.2	5.0	ug/l	50.0		102	85-115			
Aluminum, Total	51.2	5.0	ug/l	50.0		102	85-115			
Antimony, Dissolved	46.3	0.50	ug/l	50.0		93	85-115			
Antimony, Total	46.3	0.50	ug/l	50.0		93	85-115			
Arsenic, Dissolved	48.7	0.40	ug/l	50.0		97	85-115			
Arsenic, Total	48.7	0.40	ug/l	50.0		97	85-115			
Beryllium, Dissolved	47.1	0.10	ug/l	50.0		94	85-115			
Beryllium, Total	47.1	0.10	ug/l	50.0		94	85-115			
Cadmium, Dissolved	48.2	0.10	ug/l	50.0		96	85-115			
Cadmium, Total	48.2	0.10	ug/l	50.0		96	85-115			
Chromium, Dissolved	48.3	0.20	ug/l	50.0		97	85-115			
Chromium, Total	48.3	0.20	ug/l	50.0		97	85-115			
Copper, Dissolved	49.6	0.50	ug/l	50.0		99	85-115			
Copper, Total	49.6	0.50	ug/l	50.0		99	85-115			
Iron, Dissolved	48.8	20	ug/l	50.0		98	85-115			
Iron, Total	48.8	20	ug/l	50.0		98	85-115			
Lead, Dissolved	47.4	0.20	ug/l	50.0		95	85-115			
Lead, Total	47.4	0.20	ug/l	50.0		95	85-115			
Nickel, Dissolved	49.2	0.80	ug/l	50.0		98	85-115			
Nickel, Total	49.2	0.80	ug/l	50.0		98	85-115			
Selenium, Dissolved	46.9	0.40	ug/l	50.0		94	85-115			
Selenium, Total	46.9	0.40	ug/l	50.0		94	85-115			
Silver, Dissolved	45.6	0.20	ug/l	50.0		91	85-115			
Silver, Total	45.6	0.20	ug/l	50.0		91	85-115			
Thallium, Dissolved	49.5	0.20	ug/l	50.0		99	85-115			
Thallium, Total	49.5	0.20	ug/l	50.0		99	85-115			
Zinc, Dissolved	51.0	5.0	ug/l	50.0		102	85-115			
Zinc, Total	51.0	5.0	ug/l	50.0		102	85-115			



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Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L2423 - EPA 200.8 (Continued)										
Matrix Spike (W6L2423-MS1)			Source: 6L16010-01		Prepared: 12/27/16 Analyzed: 01/04/17					
Aluminum, Total	1650	5.0	ug/l	50.0	1640	12	70-130			MS-02
Antimony, Total	44.6	0.50	ug/l	50.0	2.85	83	70-130			
Arsenic, Total	45.9	0.40	ug/l	50.0	0.822	90	70-130			
Beryllium, Total	43.6	0.10	ug/l	50.0	0.0778	87	70-130			
Cadmium, Total	44.6	0.10	ug/l	50.0	0.261	89	70-130			
Chromium, Total	46.6	0.20	ug/l	50.0	2.66	88	70-130			
Copper, Total	66.6	0.50	ug/l	50.0	22.3	89	70-130			
Iron, Total	1970	20	ug/l	50.0	1980	NR	70-130			MS-02
Lead, Total	56.5	0.20	ug/l	50.0	13.1	87	70-130			
Nickel, Total	47.6	0.80	ug/l	50.0	3.37	89	70-130			
Selenium, Total	44.4	0.40	ug/l	50.0	ND	89	70-130			
Silver, Total	40.4	0.20	ug/l	50.0	ND	81	70-130			
Thallium, Total	45.8	0.20	ug/l	50.0	0.0169	92	70-130			
Zinc, Total	283	5.0	ug/l	50.0	241	84	70-130			
Matrix Spike (W6L2423-MS2)			Source: 6L16010-03		Prepared: 12/27/16 Analyzed: 01/04/17					
Aluminum, Total	1110	5.0	ug/l	50.0	575	NR	70-130			MS-02
Antimony, Total	46.0	0.50	ug/l	50.0	0.650	91	70-130			
Arsenic, Total	50.2	0.40	ug/l	50.0	0.746	99	70-130			
Beryllium, Total	49.6	0.10	ug/l	50.0	0.0371	99	70-130			
Cadmium, Total	49.5	0.10	ug/l	50.0	0.138	99	70-130			
Chromium, Total	51.5	0.20	ug/l	50.0	1.19	101	70-130			
Copper, Total	66.7	0.50	ug/l	50.0	15.9	102	70-130			
Iron, Total	1460	20	ug/l	50.0	770	NR	70-130			MS-02
Lead, Total	56.6	0.20	ug/l	50.0	7.75	98	70-130			
Nickel, Total	53.2	0.80	ug/l	50.0	2.73	101	70-130			
Selenium, Total	47.9	0.40	ug/l	50.0	ND	96	70-130			
Silver, Total	45.4	0.20	ug/l	50.0	ND	91	70-130			
Thallium, Total	51.4	0.20	ug/l	50.0	ND	103	70-130			
Zinc, Total	129	5.0	ug/l	50.0	75.9	106	70-130			

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Quality Control Results

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Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6L2423 - EPA 200.8 (Continued)										
Matrix Spike Dup (W6L2423-MSD1)			Source: 6L16010-01		Prepared: 12/27/16 Analyzed: 01/04/17					
Aluminum, Total	1630	5.0	ug/l	50.0	1640	NR	70-130	1	30	MS-02
Antimony, Total	49.3	0.50	ug/l	50.0	2.85	93	70-130	10	30	
Arsenic, Total	47.8	0.40	ug/l	50.0	0.822	94	70-130	4	30	
Beryllium, Total	48.5	0.10	ug/l	50.0	0.0778	97	70-130	11	30	
Cadmium, Total	46.7	0.10	ug/l	50.0	0.261	93	70-130	5	30	
Chromium, Total	48.7	0.20	ug/l	50.0	2.66	92	70-130	4	30	
Copper, Total	68.3	0.50	ug/l	50.0	22.3	92	70-130	3	30	
Iron, Total	1960	20	ug/l	50.0	1980	NR	70-130	0.5	30	MS-02
Lead, Total	62.0	0.20	ug/l	50.0	13.1	98	70-130	9	30	
Nickel, Total	50.5	0.80	ug/l	50.0	3.37	94	70-130	6	30	
Selenium, Total	47.6	0.40	ug/l	50.0	ND	95	70-130	7	30	
Silver, Total	45.5	0.20	ug/l	50.0	ND	91	70-130	12	30	
Thallium, Total	50.5	0.20	ug/l	50.0	0.0169	101	70-130	10	30	
Zinc, Total	281	5.0	ug/l	50.0	241	81	70-130	0.5	30	
Matrix Spike Dup (W6L2423-MSD2)			Source: 6L16010-03		Prepared: 12/27/16 Analyzed: 01/04/17					
Aluminum, Total	729	5.0	ug/l	50.0	575	307	70-130	42	30	MS-02
Antimony, Total	46.7	0.50	ug/l	50.0	0.650	92	70-130	2	30	
Arsenic, Total	49.8	0.40	ug/l	50.0	0.746	98	70-130	0.7	30	
Beryllium, Total	49.1	0.10	ug/l	50.0	0.0371	98	70-130	1	30	
Cadmium, Total	49.4	0.10	ug/l	50.0	0.138	99	70-130	0.2	30	
Chromium, Total	50.9	0.20	ug/l	50.0	1.19	99	70-130	1	30	
Copper, Total	65.4	0.50	ug/l	50.0	15.9	99	70-130	2	30	
Iron, Total	945	20	ug/l	50.0	770	350	70-130	43	30	MS-02
Lead, Total	56.6	0.20	ug/l	50.0	7.75	98	70-130	0.08	30	
Nickel, Total	52.3	0.80	ug/l	50.0	2.73	99	70-130	2	30	
Selenium, Total	49.1	0.40	ug/l	50.0	ND	98	70-130	2	30	
Silver, Total	45.4	0.20	ug/l	50.0	ND	91	70-130	0.2	30	
Thallium, Total	51.8	0.20	ug/l	50.0	ND	104	70-130	0.8	30	
Zinc, Total	124	5.0	ug/l	50.0	75.9	96	70-130	4	30	



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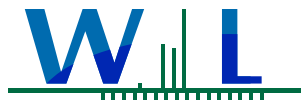
Project Manager: Ed Suher

Quality Control Results

(Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W7A1202 - EPA 200.7										
Blank (W7A1202-BLK1)				Prepared: 01/03/17 Analyzed: 01/04/17						
Calcium, Total	ND	0.100	mg/l							
LCS (W7A1202-BS1)				Prepared: 01/03/17 Analyzed: 01/04/17						
Calcium, Total	46.4	0.100	mg/l	50.0		93	85-115			
Matrix Spike (W7A1202-MS1)				Source: 6L16031-02 Prepared: 01/03/17 Analyzed: 01/04/17						
Calcium, Total	49.3	0.100	mg/l	50.0	2.89	93	70-130			
Matrix Spike Dup (W7A1202-MSD1)				Source: 6L16031-02 Prepared: 01/03/17 Analyzed: 01/04/17						
Calcium, Total	48.5	0.100	mg/l	50.0	2.89	91	70-130	2	30	



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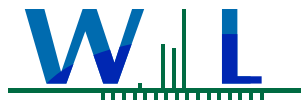
Project Manager: Ed Suher

Quality Control Results

(Continued)

Mercury - Low Level by CVAFS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6L2537 - EPA 1631E										
Blank (W6L2537-BLK1)				Prepared & Analyzed: 12/29/16						
Mercury, Dissolved	ND	0.50	ng/l							
Mercury, Total	ND	0.50	ng/l							
LCS (W6L2537-BS1)				Prepared & Analyzed: 12/29/16						
Mercury, Total	5.56	0.50	ng/l	5.00		111	85-115			
Matrix Spike (W6L2537-MS1)				Source: 6L28012-01						
				Prepared & Analyzed: 12/29/16						
Mercury, Total	5.56	0.50	ng/l	5.00	0.722	97	75-125			
Matrix Spike (W6L2537-MS2)				Source: 6L16009-01						
				Prepared & Analyzed: 12/29/16						
Mercury, Total	30.4	0.50	ng/l	5.00	24.8	112	75-125			
Matrix Spike Dup (W6L2537-MSD1)				Source: 6L28012-01						
				Prepared & Analyzed: 12/29/16						
Mercury, Total	5.43	0.50	ng/l	5.00	0.722	94	75-125	2	20	
Matrix Spike Dup (W6L2537-MSD2)				Source: 6L16009-01						
				Prepared & Analyzed: 12/29/16						
Mercury, Total	30.1	0.50	ng/l	5.00	24.8	106	75-125	1	20	



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Quality Control Results

(Continued)

Microbiological Parameters by Standard Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2168 - SM 9221F										
Blank (W6L2168-BLK1)				Prepared: 12/16/16 Analyzed: 12/19/16						
E. coli	ND	2.0	MPN/100ml							
Fecal Coliform	ND	2.0	MPN/100ml							
Blank (W6L2168-BLK2)				Prepared: 12/15/16 Analyzed: 12/19/16						
Fecal Coliform	ND	2.0	MPN/100ml							
Total Coliform	ND	2.0	MPN/100ml							
Blank (W6L2168-BLK3)				Prepared: 12/16/16 Analyzed: 12/19/16						
E. coli	ND	2.0	MPN/100ml							
Fecal Coliform	ND	2.0	MPN/100ml							
Total Coliform	ND	2.0	MPN/100ml							
Blank (W6L2168-BLK4)				Prepared: 12/16/16 Analyzed: 12/19/16						
E. coli	ND	2.0	MPN/100ml							
Fecal Coliform	ND	2.0	MPN/100ml							
Total Coliform	ND	2.0	MPN/100ml							
Blank (W6L2168-BLK5)				Prepared: 12/16/16 Analyzed: 12/19/16						
E. coli	ND	2.0	MPN/100ml							
Blank (W6L2168-BLK6)				Prepared: 12/16/16 Analyzed: 12/19/16						
E. coli	ND	2.0	MPN/100ml							
Fecal Coliform	ND	2.0	MPN/100ml							
Blank (W6L2168-BLK7)				Prepared: 12/16/16 Analyzed: 12/20/16						
Total Coliform	ND	2.0	MPN/100ml							



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Quality Control Results

(Continued)

Microbiological Parameters by Standard Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2172 - Enterolert										
Blank (W6L2172-BLK1)				Prepared: 12/15/16 Analyzed: 12/16/16						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W6L2172-BLK2)				Prepared: 12/16/16 Analyzed: 12/17/16						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W6L2172-BLK3)				Prepared: 12/16/16 Analyzed: 12/17/16						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W6L2172-BLK4)				Prepared: 12/16/16 Analyzed: 12/17/16						
Enterococcus	ND	1.0	MPN/100ml							



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Quality Control Results

(Continued)

PCB Congener Screen by GCMS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2373 - GC/MS/MS										
Blank (W6L2373-BLK1)				Prepared: 12/27/16 Analyzed: 12/29/16						
PCB-101	ND	10	ng/l							
PCB-105	ND	10	ng/l							
PCB-110	ND	10	ng/l							
PCB-114	ND	10	ng/l							
PCB-118	ND	10	ng/l							
PCB-119	ND	10	ng/l							
PCB-123	ND	10	ng/l							
PCB-126	ND	10	ng/l							
PCB-128	ND	10	ng/l							
PCB-132	ND	10	ng/l							
PCB-138	ND	10	ng/l							
PCB-141	ND	10	ng/l							
PCB-149	ND	10	ng/l							
PCB-151	ND	10	ng/l							
PCB-153	ND	10	ng/l							
PCB-156	ND	10	ng/l							
PCB-157	ND	10	ng/l							
PCB-158	ND	10	ng/l							
PCB-167	ND	10	ng/l							
PCB-168	ND	10	ng/l							
PCB-169	ND	10	ng/l							
PCB-170	ND	10	ng/l							
PCB-174	ND	10	ng/l							
PCB-177	ND	10	ng/l							
PCB-18	ND	10	ng/l							
PCB-180	ND	10	ng/l							
PCB-183	ND	10	ng/l							
PCB-187	ND	10	ng/l							
PCB-189	ND	10	ng/l							
PCB-194	ND	10	ng/l							
PCB-195	ND	10	ng/l							
PCB-200	ND	10	ng/l							
PCB-201	ND	10	ng/l							
PCB-203	ND	10	ng/l							
PCB-206	ND	10	ng/l							
PCB-209	ND	10	ng/l							
PCB-28	ND	10	ng/l							

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Quality Control Results

(Continued)

PCB Congener Screen by GC/MS SIM (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
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Batch: W6L2373 - GC/MS/MS (Continued)

Blank (W6L2373-BLK1)

Prepared: 12/27/16 Analyzed: 12/29/16

PCB-3	ND	10	ng/l
PCB-31	ND	10	ng/l
PCB-33	ND	10	ng/l
PCB-37	ND	10	ng/l
PCB-44	ND	10	ng/l
PCB-49	ND	10	ng/l
PCB-52	ND	10	ng/l
PCB-56	ND	10	ng/l
PCB-60	ND	10	ng/l
PCB-66	ND	10	ng/l
PCB-70	ND	10	ng/l
PCB-74	ND	10	ng/l
PCB-77	ND	10	ng/l
PCB-8	ND	10	ng/l
PCB-81	ND	10	ng/l
PCB-87	ND	10	ng/l
PCB-95	ND	10	ng/l
PCB-97	ND	10	ng/l
PCB-99	ND	10	ng/l

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	209	ng/l	250	84	49-146
Triphenyl phosphate	293	ng/l	250	117	30-213

LCS (W6L2373-BS1)

Prepared: 12/27/16 Analyzed: 12/29/16

PCB-101	46.5	10	ng/l	50.0	93	30-191
PCB-105	41.0	10	ng/l	50.0	82	33-158
PCB-114	40.1	10	ng/l	50.0	80	33-159
PCB-118	51.2	10	ng/l	50.0	102	28-154
PCB-123	51.2	10	ng/l	50.0	102	28-154
PCB-126	40.9	10	ng/l	50.0	82	32-154
PCB-128	38.9	10	ng/l	50.0	78	27-181
PCB-138	44.6	10	ng/l	50.0	89	27-181
PCB-153	43.9	10	ng/l	50.0	88	34-165
PCB-156	45.6	10	ng/l	50.0	91	25-166
PCB-157	42.7	10	ng/l	50.0	85	25-180
PCB-167	38.9	10	ng/l	50.0	78	27-181
PCB-169	42.6	10	ng/l	50.0	85	27-112
PCB-170	47.0	10	ng/l	50.0	94	20-192



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Quality Control Results

(Continued)

PCB Congener Screen by GCMS SIM (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2373 - GC/MS/MS (Continued)										
LCS (W6L2373-BS1)				Prepared: 12/27/16 Analyzed: 12/29/16						
PCB-18	43.9	10	ng/l	50.0		88	44-155			
PCB-180	44.0	10	ng/l	50.0		88	23-188			
PCB-187	43.6	10	ng/l	50.0		87	19-190			
PCB-189	44.4	10	ng/l	50.0		89	28-164			
PCB-195	50.4	10	ng/l	50.0		101	32-160			
PCB-206	41.0	10	ng/l	50.0		82	23-178			
PCB-209	39.2	10	ng/l	50.0		78	24-175			
PCB-28	50.1	10	ng/l	50.0		100	45-178			
PCB-44	45.9	10	ng/l	50.0		92	42-154			
PCB-52	40.0	10	ng/l	50.0		80	44-159			
PCB-66	48.4	10	ng/l	50.0		97	27-168			
PCB-77	60.1	10	ng/l	50.0		120	37-139			
PCB-8	49.1	10	ng/l	50.0		98	42-191			
PCB-81	46.2	10	ng/l	50.0		92	21-174			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		217	ng/l	250		87	49-146			
Triphenyl phosphate		281	ng/l	250		112	30-213			
LCS Dup (W6L2373-BSD1)				Prepared: 12/27/16 Analyzed: 12/29/16						
PCB-101	46.5	10	ng/l	50.0		93	30-191	0.06	30	
PCB-105	41.8	10	ng/l	50.0		84	33-158	2	30	
PCB-114	42.8	10	ng/l	50.0		86	33-159	7	30	
PCB-118	49.2	10	ng/l	50.0		98	28-154	4	30	
PCB-123	49.2	10	ng/l	50.0		98	28-154	4	30	
PCB-126	40.9	10	ng/l	50.0		82	32-154	0.09	30	
PCB-128	39.5	10	ng/l	50.0		79	27-181	2	30	
PCB-138	44.6	10	ng/l	50.0		89	27-181	0.1	30	
PCB-153	43.9	10	ng/l	50.0		88	34-165	0.08	30	
PCB-156	43.3	10	ng/l	50.0		87	25-166	5	30	
PCB-157	40.5	10	ng/l	50.0		81	25-180	5	30	
PCB-167	39.5	10	ng/l	50.0		79	27-181	2	30	
PCB-169	41.3	10	ng/l	50.0		83	27-112	3	30	
PCB-170	43.2	10	ng/l	50.0		86	20-192	8	30	
PCB-18	40.4	10	ng/l	50.0		81	44-155	8	30	
PCB-180	41.8	10	ng/l	50.0		84	23-188	5	30	
PCB-187	42.6	10	ng/l	50.0		85	19-190	2	30	
PCB-189	44.1	10	ng/l	50.0		88	28-164	0.5	30	
PCB-195	46.0	10	ng/l	50.0		92	32-160	9	30	



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PCB Congener Screen by GCMS SIM (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2373 - GC/MS/MS (Continued)										
LCS Dup (W6L2373-BSD1)				Prepared: 12/27/16 Analyzed: 12/29/16						
PCB-206	40.6	10	ng/l	50.0		81	23-178	0.9	30	
PCB-209	36.4	10	ng/l	50.0		73	24-175	7	30	
PCB-28	44.2	10	ng/l	50.0		88	45-178	12	30	
PCB-44	42.4	10	ng/l	50.0		85	42-154	8	30	
PCB-52	37.2	10	ng/l	50.0		74	44-159	7	30	
PCB-66	49.9	10	ng/l	50.0		100	27-168	3	30	
PCB-77	63.6	10	ng/l	50.0		127	37-139	6	30	
PCB-8	43.5	10	ng/l	50.0		87	42-191	12	30	
PCB-81	50.1	10	ng/l	50.0		100	21-174	8	30	
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		189	ng/l	250		75	49-146			
Triphenyl phosphate		230	ng/l	250		92	30-213			



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Quality Control Results

(Continued)

Perchlorate by EPA 314.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2500 - EPA 314.0										
Blank (W6L2500-BLK1)				Prepared & Analyzed: 12/28/16						
Perchlorate	ND	2.0	ug/l							
LCS (W6L2500-BS1)				Prepared & Analyzed: 12/28/16						
Perchlorate	10.4	2.0	ug/l	10.0		104	85-115			
Matrix Spike (W6L2500-MS1)				Prepared & Analyzed: 12/28/16						
Perchlorate	49.2	2.0	ug/l	10.0	38.3	110	80-120			
Matrix Spike Dup (W6L2500-MSD1)				Prepared & Analyzed: 12/28/16						
Perchlorate	49.3	2.0	ug/l	10.0	38.3	111	80-120	0.2	15	



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Quality Control Results

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Semivolatile Organic Compounds by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
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Batch: W6L2418 - EPA 525.2

Blank (W6L2418-BLK1)

Prepared: 12/27/16 Analyzed: 01/09/17

Alachlor	ND	0.10	ug/l
Atrazine	ND	0.10	ug/l
Bromacil	ND	0.50	ug/l
Butachlor	ND	0.10	ug/l
Chlorpropham	ND	0.10	ug/l
Cyanazine	ND	0.10	ug/l
Diazinon	ND	0.10	ug/l
Dimethoate	ND	0.20	ug/l
Diphenamid	ND	0.10	ug/l
Disulfoton	ND	0.10	ug/l
EPTC	ND	0.10	ug/l
Metolachlor	ND	0.10	ug/l
Metribuzin	ND	0.10	ug/l
Molinate	ND	0.10	ug/l
Prometon	ND	0.10	ug/l
Prometryn	ND	0.10	ug/l
Simazine	ND	0.10	ug/l
Terbacil	ND	2.0	ug/l
Thiobencarb	ND	0.10	ug/l

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	5.52	ug/l	5.00	110	73-138
Perylene-d12	4.20	ug/l	5.00	84	30-118
Triphenyl phosphate	5.02	ug/l	5.00	100	70-149

Blank (W6L2418-BLK2)

Prepared: 12/27/16 Analyzed: 01/10/17

Alachlor	ND	0.10	ug/l	QC-2
Atrazine	ND	0.10	ug/l	QC-2
Bromacil	ND	0.50	ug/l	QC-2
Butachlor	ND	0.10	ug/l	QC-2
Chlorpropham	ND	0.10	ug/l	QC-2
Cyanazine	ND	0.10	ug/l	QC-2
Diazinon	ND	0.10	ug/l	QC-2
Dimethoate	ND	0.20	ug/l	QC-2
Diphenamid	ND	0.10	ug/l	QC-2
Disulfoton	ND	0.10	ug/l	QC-2
EPTC	ND	0.10	ug/l	QC-2
Metolachlor	ND	0.10	ug/l	QC-2
Metribuzin	ND	0.10	ug/l	QC-2



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Project Manager: Ed Suher

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L2418 - EPA 525.2 (Continued)										
Blank (W6L2418-BLK2)				Prepared: 12/27/16 Analyzed: 01/10/17						
Molinate	ND	0.10	ug/l							QC-2
Prometon	ND	0.10	ug/l							QC-2
Prometryn	ND	0.10	ug/l							QC-2
Simazine	ND	0.10	ug/l							QC-2
Terbacil	ND	2.0	ug/l							QC-2
Thiobencarb	ND	0.10	ug/l							QC-2
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		5.89	ug/l	5.00		118	73-138			QC-2
Perylene-d12		3.82	ug/l	5.00		76	30-118			QC-2
Triphenyl phosphate		5.22	ug/l	5.00		104	70-149			QC-2
LCS (W6L2418-BS1)				Prepared: 12/27/16 Analyzed: 01/09/17						
Alachlor	5.07	0.10	ug/l	5.00		101	55-124			
Atrazine	5.60	0.10	ug/l	5.00		112	67-131			
Bromacil	4.00	0.50	ug/l	5.00		80	62-139			
Butachlor	4.60	0.10	ug/l	5.00		92	61-127			
Chlorpropham	5.87	0.10	ug/l	5.00		117	77-143			
Cyanazine	3.91	0.10	ug/l	5.00		78	61-129			
Diazinon	4.72	0.10	ug/l	5.00		94	30-120			
Dimethoate	4.96	0.20	ug/l	5.00		99	38-102			
Diphenamid	4.56	0.10	ug/l	5.00		91	77-124			
Disulfoton	2.75	0.10	ug/l	5.00		55	54-156			
EPTC	5.24	0.10	ug/l	5.00		105	82-116			
Metolachlor	5.09	0.10	ug/l	5.00		102	61-123			
Metribuzin	4.79	0.10	ug/l	5.00		96	50-121			
Molinate	5.19	0.10	ug/l	5.00		104	82-117			
Prometon	1.18	0.10	ug/l	5.00		24	17-101			
Prometryn	3.40	0.10	ug/l	5.00		68	57-122			
Simazine	6.06	0.10	ug/l	5.00		121	53-116			Q-08
Terbacil	4.65	2.0	ug/l	5.00		93	70-135			
Thiobencarb	5.39	0.10	ug/l	5.00		108	56-125			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		5.67	ug/l	5.00		113	73-138			
Perylene-d12		4.06	ug/l	5.00		81	30-118			
Triphenyl phosphate		4.99	ug/l	5.00		100	70-149			



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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2418 - EPA 525.2 (Continued)										
LCS (W6L2418-BS2)				Prepared: 12/27/16 Analyzed: 01/10/17						
Alachlor	5.08	0.10	ug/l	5.00		102	55-124			QC-2
Atrazine	5.47	0.10	ug/l	5.00		109	67-131			QC-2
Bromacil	3.87	0.50	ug/l	5.00		77	62-139			QC-2
Butachlor	4.47	0.10	ug/l	5.00		89	61-127			QC-2
Chlorpropham	5.70	0.10	ug/l	5.00		114	77-143			QC-2
Diazinon	4.62	0.10	ug/l	5.00		92	30-120			QC-2
Dimethoate	4.70	0.20	ug/l	5.00		94	38-102			QC-2
Diphenamid	4.56	0.10	ug/l	5.00		91	77-124			QC-2
Disulfoton	2.48	0.10	ug/l	5.00		50	54-156			Q-ME, QC-2
EPTC	5.45	0.10	ug/l	5.00		109	82-116			QC-2
Metolachlor	5.00	0.10	ug/l	5.00		100	61-123			QC-2
Metribuzin	4.67	0.10	ug/l	5.00		93	50-121			QC-2
Molinate	5.11	0.10	ug/l	5.00		102	82-117			QC-2
Prometon	1.17	0.10	ug/l	5.00		23	17-101			QC-2
Prometryn	3.35	0.10	ug/l	5.00		67	57-122			QC-2
Simazine	6.04	0.10	ug/l	5.00		121	53-116			Q-08, QC-2
Terbacil	4.58	2.0	ug/l	5.00		92	70-135			QC-2
Thiobencarb	5.28	0.10	ug/l	5.00		106	56-125			QC-2
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		5.96	ug/l	5.00		119	73-138			QC-2
Perylene-d12		3.63	ug/l	5.00		73	30-118			QC-2
Triphenyl phosphate		5.12	ug/l	5.00		102	70-149			QC-2
LCS Dup (W6L2418-BS2)				Prepared: 12/27/16 Analyzed: 01/09/17						
Alachlor	4.76	0.10	ug/l	5.00		95	55-124	6	30	
Atrazine	5.53	0.10	ug/l	5.00		111	67-131	1	30	
Bromacil	3.87	0.50	ug/l	5.00		77	62-139	3	30	
Butachlor	4.47	0.10	ug/l	5.00		89	61-127	3	30	
Chlorpropham	5.93	0.10	ug/l	5.00		119	77-143	1	30	
Diazinon	4.46	0.10	ug/l	5.00		89	30-120	6	30	
Dimethoate	4.77	0.20	ug/l	5.00		95	38-102	4	30	
Diphenamid	4.56	0.10	ug/l	5.00		91	77-124	0	30	
Disulfoton	2.81	0.10	ug/l	5.00		56	54-156	2	30	
EPTC	5.34	0.10	ug/l	5.00		107	82-116	2	30	
Metolachlor	4.75	0.10	ug/l	5.00		95	61-123	7	30	
Metribuzin	4.30	0.10	ug/l	5.00		86	50-121	11	30	
Molinate	5.13	0.10	ug/l	5.00		103	82-117	1	30	
Prometon	1.30	0.10	ug/l	5.00		26	17-101	10	30	

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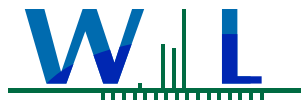
Project Manager: Ed Suher

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2418 - EPA 525.2 (Continued)										
LCS Dup (W6L2418-BSD1)				Prepared: 12/27/16 Analyzed: 01/09/17						
Prometryn	3.46	0.10	ug/l	5.00		69	57-122	2	30	
Simazine	5.52	0.10	ug/l	5.00		110	53-116	9	30	
Terbacil	4.55	2.0	ug/l	5.00		91	70-135	2	30	
Thiobencarb	5.03	0.10	ug/l	5.00		101	56-125	7	30	
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		5.56	ug/l	5.00		111	73-138			
Perylene-d12		4.07	ug/l	5.00		81	30-118			
Triphenyl phosphate		5.31	ug/l	5.00		106	70-149			
LCS Dup (W6L2418-BSD2)				Prepared: 12/27/16 Analyzed: 01/10/17						
Alachlor	4.78	0.10	ug/l	5.00		96	55-124	6	30	QC-2
Atrazine	5.49	0.10	ug/l	5.00		110	67-131	0.4	30	QC-2
Bromacil	3.91	0.50	ug/l	5.00		78	62-139	1	30	QC-2
Butachlor	4.54	0.10	ug/l	5.00		91	61-127	2	30	QC-2
Chlorpropham	5.77	0.10	ug/l	5.00		115	77-143	1	30	QC-2
Diazinon	4.38	0.10	ug/l	5.00		88	30-120	5	30	QC-2
Dimethoate	4.72	0.20	ug/l	5.00		94	38-102	0.4	30	QC-2
Diphenamid	4.75	0.10	ug/l	5.00		95	77-124	4	30	QC-2
Disulfoton	2.57	0.10	ug/l	5.00		51	54-156	4	30	Q-ME, QC-2
EPTC	5.49	0.10	ug/l	5.00		110	82-116	0.7	30	QC-2
Metolachlor	4.79	0.10	ug/l	5.00		96	61-123	4	30	QC-2
Metribuzin	4.40	0.10	ug/l	5.00		88	50-121	6	30	QC-2
Molinate	5.13	0.10	ug/l	5.00		103	82-117	0.4	30	QC-2
Prometon	1.31	0.10	ug/l	5.00		26	17-101	11	30	QC-2
Prometryn	3.53	0.10	ug/l	5.00		71	57-122	5	30	QC-2
Simazine	5.54	0.10	ug/l	5.00		111	53-116	9	30	QC-2
Terbacil	4.57	2.0	ug/l	5.00		91	70-135	0.2	30	QC-2
Thiobencarb	4.97	0.10	ug/l	5.00		99	56-125	6	30	QC-2
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		5.81	ug/l	5.00		116	73-138			QC-2
Perylene-d12		4.05	ug/l	5.00		81	30-118			QC-2
Triphenyl phosphate		5.56	ug/l	5.00		111	70-149			QC-2



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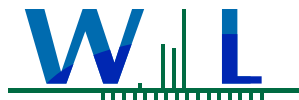
Project Manager: Ed Suher

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2524 - EPA 525.2										
Blank (W6L2524-BLK1)				Prepared: 12/29/16 Analyzed: 12/30/16						
Azinphos methyl (Guthion)	ND	10	ng/l							
Bolstar	ND	10	ng/l							
Chlorpyrifos	ND	10	ng/l							
Coumaphos	ND	10	ng/l							
Demeton-o	ND	10	ng/l							
Demeton-s	ND	10	ng/l							
Diazinon	ND	10	ng/l							
Dichlorvos	ND	10	ng/l							
Dimethoate	ND	10	ng/l							
Disulfoton	ND	10	ng/l							
Ethoprop	ND	10	ng/l							
Ethyl parathion	ND	10	ng/l							
Fensulfothion	ND	10	ng/l							
Fenthion	ND	10	ng/l							
Malathion	ND	10	ng/l							
Merphos	ND	10	ng/l							
Methyl parathion	ND	10	ng/l							
Mevinphos	ND	10	ng/l							
Naled	ND	10	ng/l							
Phorate	ND	10	ng/l							
Ronnel	ND	10	ng/l							
Stirophos	ND	10	ng/l							
Tokuthion (Prothiofos)	ND	10	ng/l							
Trichloronate	ND	10	ng/l							
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		401	ng/l	500		80	76-128			
Triphenyl phosphate		408	ng/l	500		82	40-163			
LCS (W6L2524-BS1)				Prepared: 12/29/16 Analyzed: 12/30/16						
Azinphos methyl (Guthion)	18.6	10	ng/l	50.0		37	0.1-188			
Bolstar	45.6	10	ng/l	50.0		91	11-166			
Chlorpyrifos	58.4	10	ng/l	50.0		117	37-169			
Coumaphos	37.1	10	ng/l	50.0		74	0.1-225			
Demeton-o	25.7	10	ng/l	50.0		51	0.1-211			
Demeton-s	52.5	10	ng/l	50.0		105	0.1-213			
Diazinon	36.1	10	ng/l	50.0		72	43-152			
Dichlorvos	49.7	10	ng/l	50.0		99	46-133			
Dimethoate	19.5	10	ng/l	50.0		39	10-234			



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Quality Control Results

(Continued)

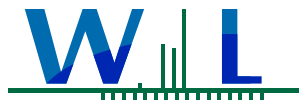
Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2524 - EPA 525.2 (Continued)										
LCS (W6L2524-BS1)				Prepared: 12/29/16 Analyzed: 12/30/16						
Disulfoton	51.3	10	ng/l	50.0		103	0.1-212			
Ethoprop	41.0	10	ng/l	50.0		82	53-163			
Ethyl parathion	59.9	10	ng/l	50.0		120	7-230			
Fensulfothion	24.2	10	ng/l	50.0		48	0.1-265			
Fenthion	45.8	10	ng/l	50.0		92	20-177			
Malathion	54.9	10	ng/l	50.0		110	14-175			
Merphos	45.3	10	ng/l	50.0		91	28-181			
Methyl parathion	51.9	10	ng/l	50.0		104	0.1-252			
Mevinphos	24.3	10	ng/l	50.0		49	14-202			
Naled	16.6	10	ng/l	50.0		33	0.1-240			
Phorate	56.2	10	ng/l	50.0		112	26-180			
Ronnel	57.1	10	ng/l	50.0		114	34-154			
Stirophos	39.1	10	ng/l	50.0		78	0.1-188			
Tokuthion (Prothiofos)	45.1	10	ng/l	50.0		90	23-159			
Trichloronate	72.7	10	ng/l	50.0		145	34-153			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		389	ng/l	500		78	76-128			
Triphenyl phosphate		432	ng/l	500		86	40-163			

Matrix Spike (W6L2524-MS1)				Source: 6L16010-01		Prepared: 12/29/16 Analyzed: 12/30/16				
Azinphos methyl (Guthion)	38.3	10	ng/l	50.0	ND	77	0.1-154			
Bolstar	47.8	10	ng/l	50.0	ND	96	4-184			
Chlorpyrifos	61.0	10	ng/l	50.0	ND	122	37-168			
Coumaphos	47.2	10	ng/l	50.0	ND	94	0.1-203			
Demeton-o	36.3	10	ng/l	50.0	ND	73	0.1-208			
Demeton-s	70.9	10	ng/l	50.0	ND	142	0.1-207			
Diazinon	49.1	10	ng/l	50.0	ND	98	36-153			
Dichlorvos	59.8	10	ng/l	50.0	ND	120	42-137			
Dimethoate	56.5	10	ng/l	50.0	ND	113	4-222			
Disulfoton	54.9	10	ng/l	50.0	ND	110	12-199			
Ethoprop	52.3	10	ng/l	50.0	ND	105	51-167			
Ethyl parathion	70.0	10	ng/l	50.0	ND	140	5-229			
Fensulfothion	39.1	10	ng/l	50.0	ND	78	0.1-316			
Fenthion	53.9	10	ng/l	50.0	ND	108	23-169			
Malathion	75.6	10	ng/l	50.0	ND	151	6-184			
Merphos	49.2	10	ng/l	50.0	ND	98	3-210			
Methyl parathion	68.2	10	ng/l	50.0	ND	136	0.1-249			
Mevinphos	48.8	10	ng/l	50.0	ND	98	25-189			

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Project Manager: Ed Suher

Quality Control Results

(Continued)

Semivolatle Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2524 - EPA 525.2 (Continued)										
Matrix Spike (W6L2524-MS1)										
			Source: 6L16010-01		Prepared: 12/29/16 Analyzed: 12/30/16					
Naled	44.1	10	ng/l	50.0	ND	88	0.1-242			
Phorate	56.6	10	ng/l	50.0	ND	113	31-181			
Ronnel	60.9	10	ng/l	50.0	ND	122	29-153			
Stirophos	62.1	10	ng/l	50.0	ND	124	0.1-167			
Tokuthion (Prothiofos)	39.9	10	ng/l	50.0	ND	80	27-160			
Trichloronate	72.6	10	ng/l	50.0	ND	145	40-150			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		472	ng/l	500		94	76-128			
Triphenyl phosphate		467	ng/l	500		93	40-163			
Matrix Spike Dup (W6L2524-MSD1)										
			Source: 6L16010-01		Prepared: 12/29/16 Analyzed: 12/30/16					
Azinphos methyl (Guthion)	47.7	10	ng/l	50.0	ND	95	0.1-154	22	30	
Bolstar	54.8	10	ng/l	50.0	ND	110	4-184	14	30	
Chlorpyrifos	55.2	10	ng/l	50.0	ND	110	37-168	10	30	
Coumaphos	54.7	10	ng/l	50.0	ND	109	0.1-203	15	30	
Demeton-o	34.5	10	ng/l	50.0	ND	69	0.1-208	5	30	
Demeton-s	76.0	10	ng/l	50.0	ND	152	0.1-207	7	30	
Diazinon	45.5	10	ng/l	50.0	ND	91	36-153	8	30	
Dichlorvos	63.0	10	ng/l	50.0	ND	126	42-137	5	30	
Dimethoate	45.5	10	ng/l	50.0	ND	91	4-222	22	30	
Disulfoton	58.8	10	ng/l	50.0	ND	118	12-199	7	30	
Ethoprop	51.7	10	ng/l	50.0	ND	103	51-167	1	30	
Ethyl parathion	72.7	10	ng/l	50.0	ND	145	5-229	4	30	
Fensulfothion	46.7	10	ng/l	50.0	ND	93	0.1-316	18	30	
Fenthion	56.0	10	ng/l	50.0	ND	112	23-169	4	30	
Malathion	78.7	10	ng/l	50.0	ND	157	6-184	4	30	
Merphos	54.9	10	ng/l	50.0	ND	110	3-210	11	30	
Methyl parathion	74.3	10	ng/l	50.0	ND	149	0.1-249	9	30	
Mevinphos	49.6	10	ng/l	50.0	ND	99	25-189	2	30	
Naled	44.4	10	ng/l	50.0	ND	89	0.1-242	0.5	30	
Phorate	60.9	10	ng/l	50.0	ND	122	31-181	7	30	
Ronnel	56.4	10	ng/l	50.0	ND	113	29-153	8	30	
Stirophos	59.5	10	ng/l	50.0	ND	119	0.1-167	4	30	
Tokuthion (Prothiofos)	43.2	10	ng/l	50.0	ND	86	27-160	8	30	
Trichloronate	66.0	10	ng/l	50.0	ND	132	40-150	10	30	
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		439	ng/l	500		88	76-128			
Triphenyl phosphate		499	ng/l	500		100	40-163			

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01/26/2017 08:50

Project Manager: Ed Suher

Quality Control Results

(Continued)

Semivolatiles Organics - Low Level by Tandem GC/MS/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
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Batch: W6L2194 - GC/MS/MS

Blank (W6L2194-BLK1)

Prepared: 12/22/16 Analyzed: 12/28/16

Acenaphthene	ND	5.0	ng/l
Acenaphthylene	ND	5.0	ng/l
Anthracene	ND	5.0	ng/l
Benzo (a) anthracene	ND	5.0	ng/l
Benzo (a) pyrene	ND	5.0	ng/l
Benzo (b) fluoranthene	ND	5.0	ng/l
Benzo (g,h,i) perylene	ND	5.0	ng/l
Benzo (k) fluoranthene	ND	5.0	ng/l
Chrysene	ND	5.0	ng/l
Dibenzo (a,h) anthracene	ND	5.0	ng/l
Fluoranthene	ND	5.0	ng/l
Fluorene	ND	5.0	ng/l
Indeno (1,2,3-cd) pyrene	ND	5.0	ng/l
Naphthalene	ND	5.0	ng/l
Phenanthrene	ND	5.0	ng/l
Pyrene	ND	5.0	ng/l

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	81.0	ng/l	100	81	50-150
Perylene-d12	93.9	ng/l	100	94	50-150

LCS (W6L2194-BS1)

Prepared: 12/22/16 Analyzed: 12/28/16

Acenaphthene	42.3	5.0	ng/l	50.0	85	50-150
Acenaphthylene	42.2	5.0	ng/l	50.0	84	50-150
Anthracene	49.4	5.0	ng/l	50.0	99	50-150
Benzo (a) anthracene	71.0	5.0	ng/l	50.0	142	50-150
Benzo (a) pyrene	62.1	5.0	ng/l	50.0	124	50-150
Benzo (b) fluoranthene	54.5	5.0	ng/l	50.0	109	50-150
Benzo (g,h,i) perylene	48.3	5.0	ng/l	50.0	97	50-150
Benzo (k) fluoranthene	58.0	5.0	ng/l	50.0	116	50-150
Chrysene	56.0	5.0	ng/l	50.0	112	50-150
Dibenzo (a,h) anthracene	50.8	5.0	ng/l	50.0	102	50-150
Fluoranthene	51.9	5.0	ng/l	50.0	104	50-150
Fluorene	48.1	5.0	ng/l	50.0	96	50-150
Indeno (1,2,3-cd) pyrene	50.8	5.0	ng/l	50.0	102	50-150
Naphthalene	40.5	5.0	ng/l	50.0	81	50-150
Phenanthrene	47.9	5.0	ng/l	50.0	96	50-150
Pyrene	54.2	5.0	ng/l	50.0	108	50-150

Surrogate(s)

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Quality Control Results

(Continued)

Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
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Batch: W6L2194 - GC/MS/MS (Continued)

LCS (W6L2194-BS1)

Prepared: 12/22/16 Analyzed: 12/28/16

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	102	ng/l	100	102	50-150
Perylene-d12	95.1	ng/l	100	95	50-150

LCS Dup (W6L2194-BS1)

Prepared: 12/22/16 Analyzed: 12/28/16

Acenaphthene	42.6	5.0	ng/l	50.0	85	50-150	0.6	30
Acenaphthylene	42.7	5.0	ng/l	50.0	85	50-150	1	30
Anthracene	44.9	5.0	ng/l	50.0	90	50-150	10	30
Benzo (a) anthracene	72.6	5.0	ng/l	50.0	145	50-150	2	30
Benzo (a) pyrene	66.9	5.0	ng/l	50.0	134	50-150	7	30
Benzo (b) fluoranthene	59.7	5.0	ng/l	50.0	119	50-150	9	30
Benzo (g,h,i) perylene	58.2	5.0	ng/l	50.0	116	50-150	19	30
Benzo (k) fluoranthene	66.0	5.0	ng/l	50.0	132	50-150	13	30
Chrysene	57.7	5.0	ng/l	50.0	115	50-150	3	30
Dibenzo (a,h) anthracene	64.0	5.0	ng/l	50.0	128	50-150	23	30
Fluoranthene	51.2	5.0	ng/l	50.0	102	50-150	1	30
Fluorene	49.5	5.0	ng/l	50.0	99	50-150	3	30
Indeno (1,2,3-cd) pyrene	66.6	5.0	ng/l	50.0	133	50-150	27	30
Naphthalene	42.4	5.0	ng/l	50.0	85	50-150	5	30
Phenanthrene	49.9	5.0	ng/l	50.0	100	50-150	4	30
Pyrene	53.9	5.0	ng/l	50.0	108	50-150	0.5	30

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	100	ng/l	100	100	50-150
Perylene-d12	93.9	ng/l	100	94	50-150

Matrix Spike (W6L2194-MS1)

Source: 6L17005-11

Prepared: 12/22/16 Analyzed: 12/28/16

Acenaphthene	52.4	10	ng/l	100	1.80	51	50-150	M-02
Acenaphthylene	58.4	10	ng/l	100	ND	58	50-150	M-02
Anthracene	90.2	10	ng/l	100	4.18	86	50-150	M-02
Benzo (a) anthracene	145	10	ng/l	100	ND	145	50-150	M-02
Benzo (a) pyrene	128	10	ng/l	100	ND	128	50-150	M-02
Benzo (b) fluoranthene	123	10	ng/l	100	ND	123	50-150	M-02
Benzo (g,h,i) perylene	97.5	10	ng/l	100	1.94	96	50-150	M-02
Benzo (k) fluoranthene	109	10	ng/l	100	ND	109	50-150	M-02
Chrysene	95.4	10	ng/l	100	ND	95	50-150	M-02
Dibenzo (a,h) anthracene	109	10	ng/l	100	ND	109	50-150	M-02
Fluoranthene	105	10	ng/l	100	9.03	96	50-150	M-02
Fluorene	74.0	10	ng/l	100	6.34	68	50-150	M-02
Indeno (1,2,3-cd) pyrene	124	10	ng/l	100	3.56	121	50-150	M-02



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Project Manager: Ed Suher

Quality Control Results

(Continued)

Semivolatiles Organics - Low Level by Tandem GC/MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L2194 - GC/MS/MS (Continued)										
Matrix Spike (W6L2194-MS1)			Source: 6L17005-11		Prepared: 12/22/16 Analyzed: 12/28/16					
Naphthalene	17.5	10	ng/l	100	22.4	NR	50-150			M-02, MS-05
Phenanthrene	104	10	ng/l	100	17.9	86	50-150			M-02
Pyrene	111	10	ng/l	100	11.6	100	50-150			M-02
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		43.5	ng/l	200		22	50-150			S-GC, M-02
Perylene-d12		165	ng/l	200		82	50-150			M-02
Matrix Spike Dup (W6L2194-MSD1)			Source: 6L17005-11		Prepared: 12/22/16 Analyzed: 12/28/16					
Acenaphthene	69.7	10	ng/l	100	1.80	68	50-150	28	30	M-02
Acenaphthylene	77.8	10	ng/l	100	ND	78	50-150	29	30	M-02
Anthracene	109	10	ng/l	100	4.18	105	50-150	19	30	M-02
Benzo (a) anthracene	142	10	ng/l	100	ND	142	50-150	2	30	M-02
Benzo (a) pyrene	127	10	ng/l	100	ND	127	50-150	0.6	30	M-02
Benzo (b) fluoranthene	125	10	ng/l	100	ND	125	50-150	1	30	M-02
Benzo (g,h,i) perylene	96.2	10	ng/l	100	1.94	94	50-150	1	30	M-02
Benzo (k) fluoranthene	106	10	ng/l	100	ND	106	50-150	3	30	M-02
Chrysene	97.4	10	ng/l	100	ND	97	50-150	2	30	M-02
Dibenzo (a,h) anthracene	107	10	ng/l	100	ND	107	50-150	2	30	M-02
Fluoranthene	114	10	ng/l	100	9.03	105	50-150	8	30	M-02
Fluorene	91.2	10	ng/l	100	6.34	85	50-150	21	30	M-02
Indeno (1,2,3-cd) pyrene	124	10	ng/l	100	3.56	121	50-150	0.2	30	M-02
Naphthalene	65.9	10	ng/l	100	22.4	44	50-150	116	30	M-02, MS-05
Phenanthrene	113	10	ng/l	100	17.9	95	50-150	8	30	M-02
Pyrene	116	10	ng/l	100	11.6	105	50-150	4	30	M-02
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		141	ng/l	200		70	50-150			M-02
Perylene-d12		170	ng/l	200		85	50-150			M-02



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Quality Control Results

(Continued)

Volatile Organics by EPA Method 624

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2001 - EPA 624										
Blank (W6L2001-BLK1)				Prepared & Analyzed: 12/20/16						
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
2-Butanone	ND	5.0	ug/l							
2-Chloroethyl vinyl ether	ND	1.0	ug/l							
2-Hexanone	ND	5.0	ug/l							
4-Methyl-2-pentanone	ND	5.0	ug/l							
Acetone	ND	5.0	ug/l							
Acrolein	ND	5.0	ug/l							
Acrylonitrile	ND	2.0	ug/l							
Benzene	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
Carbon Disulfide	ND	1.0	ug/l							
Carbon tetrachloride	ND	1.0	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/l							
Ethylbenzene	ND	1.0	ug/l							
m-Dichlorobenzene	ND	1.0	ug/l							
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/l							
Methylene chloride	ND	1.0	ug/l							
o-Dichlorobenzene	ND	1.0	ug/l							
p-Dichlorobenzene	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,3-Dichloropropene	ND	1.0	ug/l							

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Quality Control Results

(Continued)

Volatile Organics by EPA Method 624 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L2001 - EPA 624 (Continued)										
Blank (W6L2001-BLK1)				Prepared & Analyzed: 12/20/16						
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
Vinyl chloride	ND	1.0	ug/l							
<i>Surrogate(s)</i>										
1,2-Dichloroethane-d4		51.1	ug/l	50.0		102	82-125			
4-Bromofluorobenzene		50.6	ug/l	50.0		101	88-108			
Toluene-d8		51.6	ug/l	50.0		103	92-112			
LCS (W6L2001-BS1)				Prepared & Analyzed: 12/20/16						
1,1,1-Trichloroethane	44.9	1.0	ug/l	50.0		90	52-162			
1,1,2,2-Tetrachloroethane	48.6	1.0	ug/l	50.0		97	46-157			
1,1,2-Trichloroethane	53.0	1.0	ug/l	50.0		106	52-150			
1,1-Dichloroethane	52.3	1.0	ug/l	50.0		105	59-155			
1,1-Dichloroethene	45.6	1.0	ug/l	50.0		91	0.1-234			
1,2-Dichloroethane	54.7	1.0	ug/l	50.0		109	49-155			
1,2-Dichloropropane	52.2	1.0	ug/l	50.0		104	0.1-210			
2-Butanone	63.0	5.0	ug/l	50.0		126	67-136			
2-Chloroethyl vinyl ether	42.7	1.0	ug/l	50.0		85	0.1-305			
2-Hexanone	56.5	5.0	ug/l	50.0		113	76-133			
4-Methyl-2-pentanone	56.1	5.0	ug/l	50.0		112	74-132			
Acetone	63.0	5.0	ug/l	50.0		126	60-147			
Acrolein	60.4	5.0	ug/l	50.0		121	49-152			
Acrylonitrile	56.3	2.0	ug/l	50.0		113	74-127			
Benzene	50.1	1.0	ug/l	50.0		100	37-151			
Bromodichloromethane	52.7	1.0	ug/l	50.0		105	35-155			
Bromoform	45.9	1.0	ug/l	50.0		92	45-169			
Bromomethane	53.6	1.0	ug/l	50.0		107	0.1-242			
Carbon Disulfide	50.4	1.0	ug/l	50.0		101	79-118			
Carbon tetrachloride	46.7	1.0	ug/l	50.0		93	70-140			
Chlorobenzene	45.2	1.0	ug/l	50.0		90	37-160			
Chloroethane	51.6	1.0	ug/l	50.0		103	14-230			
Chloroform	52.5	1.0	ug/l	50.0		105	51-138			
Chloromethane	50.2	1.0	ug/l	50.0		100	0.1-273			
cis-1,3-Dichloropropene	48.4	1.0	ug/l	50.0		97	0.1-227			
Dibromochloromethane	47.5	1.0	ug/l	50.0		95	53-149			
Dichlorodifluoromethane (Freon 12)	52.9	1.0	ug/l	50.0		106	67-126			
Ethylbenzene	40.2	1.0	ug/l	50.0		80	37-162			
m-Dichlorobenzene	43.6	1.0	ug/l	50.0		87	59-156			



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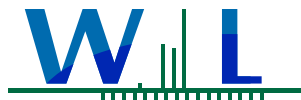
Project Manager: Ed Suher

Quality Control Results

(Continued)

Volatile Organics by EPA Method 624 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W6L2001 - EPA 624 (Continued)										
LCS (W6L2001-BS1)				Prepared & Analyzed: 12/20/16						
Methyl tert-butyl ether (MTBE)	49.1	1.0	ug/l	50.0		98	80-128			
Methylene chloride	52.4	1.0	ug/l	50.0		105	0.1-221			
o-Dichlorobenzene	44.0	1.0	ug/l	50.0		88	18-190			
p-Dichlorobenzene	43.9	1.0	ug/l	50.0		88	18-190			
Tetrachloroethene	43.6	1.0	ug/l	50.0		87	64-148			
Toluene	48.4	1.0	ug/l	50.0		97	47-150			
trans-1,2-Dichloroethene	51.5	1.0	ug/l	50.0		103	54-156			
trans-1,3-Dichloropropene	48.6	1.0	ug/l	50.0		97	17-183			
Trichloroethene	51.3	1.0	ug/l	50.0		103	71-157			
Trichlorofluoromethane	45.2	1.0	ug/l	50.0		90	17-181			
Vinyl chloride	51.9	1.0	ug/l	50.0		104	0.1-251			
<i>Surrogate(s)</i>										
1,2-Dichloroethane-d4		51.8	ug/l	50.0		104	82-125			
4-Bromofluorobenzene		50.8	ug/l	50.0		102	88-108			
Toluene-d8		50.7	ug/l	50.0		101	92-112			
Matrix Spike (W6L2001-MS1)				Source: 6L16093-01 Prepared: 12/20/16 Analyzed: 12/21/16						
1,1,1-Trichloroethane	50.0	1.0	ug/l	50.0	ND	100	52-162			
1,1,2,2-Tetrachloroethane	48.0	1.0	ug/l	50.0	ND	96	46-157			
1,1,2-Trichloroethane	54.0	1.0	ug/l	50.0	ND	108	52-150			
1,1-Dichloroethane	55.0	1.0	ug/l	50.0	ND	110	59-155			
1,1-Dichloroethene	50.4	1.0	ug/l	50.0	ND	101	0.1-234			
1,2-Dichloroethane	55.9	1.0	ug/l	50.0	ND	112	49-155			
1,2-Dichloropropane	53.5	1.0	ug/l	50.0	ND	107	0.1-210			
2-Butanone	61.7	5.0	ug/l	50.0	ND	123	36-145			
2-Chloroethyl vinyl ether	37.3	1.0	ug/l	50.0	ND	75	0.1-305			
2-Hexanone	54.7	5.0	ug/l	50.0	ND	109	46-152			
4-Methyl-2-pentanone	53.1	5.0	ug/l	50.0	ND	106	54-146			
Acetone	71.7	5.0	ug/l	50.0	4.57	134	11-169			
Acrolein	ND	5.0	ug/l	50.0	ND		5-170			MS-05
Acrylonitrile	54.1	2.0	ug/l	50.0	ND	108	59-133			
Benzene	54.4	1.0	ug/l	50.0	ND	109	37-151			
Bromodichloromethane	54.6	1.0	ug/l	50.0	ND	109	35-155			
Bromoform	46.4	1.0	ug/l	50.0	ND	93	45-169			
Bromomethane	57.2	1.0	ug/l	50.0	ND	114	0.1-242			
Carbon tetrachloride	53.4	1.0	ug/l	50.0	ND	107	70-140			
Chlorobenzene	49.7	1.0	ug/l	50.0	ND	99	37-160			
Chloroethane	57.7	1.0	ug/l	50.0	ND	115	14-230			



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Quality Control Results

(Continued)

Volatile Organics by EPA Method 624 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
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Batch: W6L2001 - EPA 624 (Continued)

Matrix Spike (W6L2001-MS1)

Source: 6L16093-01

Prepared: 12/20/16 Analyzed: 12/21/16

Chloroform	55.9	1.0	ug/l	50.0	ND	112	51-138			
Chloromethane	57.0	1.0	ug/l	50.0	ND	114	0.1-273			
cis-1,3-Dichloropropene	46.2	1.0	ug/l	50.0	ND	92	0.1-227			
Dibromochloromethane	48.7	1.0	ug/l	50.0	ND	97	53-149			
Dichlorodifluoromethane (Freon 12)	60.9	1.0	ug/l	50.0	ND	122	32-141			
Ethylbenzene	45.0	1.0	ug/l	50.0	ND	90	37-162			
m-Dichlorobenzene	47.7	1.0	ug/l	50.0	ND	95	59-156			
Methylene chloride	54.0	1.0	ug/l	50.0	ND	108	0.1-221			
o-Dichlorobenzene	47.9	1.0	ug/l	50.0	ND	96	18-190			
p-Dichlorobenzene	48.2	1.0	ug/l	50.0	ND	96	18-190			
Tetrachloroethene	50.2	1.0	ug/l	50.0	ND	100	64-148			
Toluene	54.1	1.0	ug/l	50.0	ND	108	47-150			
trans-1,2-Dichloroethene	56.9	1.0	ug/l	50.0	ND	114	54-156			
trans-1,3-Dichloropropene	45.5	1.0	ug/l	50.0	ND	91	17-183			
Trichloroethene	55.5	1.0	ug/l	50.0	ND	111	71-157			
Trichlorofluoromethane	53.6	1.0	ug/l	50.0	ND	107	17-181			
Vinyl chloride	61.5	1.0	ug/l	50.0	ND	123	0.1-251			

Surrogate(s)

1,2-Dichloroethane-d4	52.0	ug/l	50.0	104	82-125		
4-Bromofluorobenzene	50.6	ug/l	50.0	101	88-108		
Toluene-d8	51.7	ug/l	50.0	103	92-112		

Matrix Spike Dup (W6L2001-MSD1)

Source: 6L16093-01

Prepared: 12/20/16 Analyzed: 12/21/16

1,1,1-Trichloroethane	48.2	1.0	ug/l	50.0	ND	96	52-162	4	25	
1,1,2,2-Tetrachloroethane	47.3	1.0	ug/l	50.0	ND	95	46-157	2	25	
1,1,2-Trichloroethane	52.3	1.0	ug/l	50.0	ND	105	52-150	3	25	
1,1-Dichloroethane	53.3	1.0	ug/l	50.0	ND	107	59-155	3	25	
1,1-Dichloroethene	48.7	1.0	ug/l	50.0	ND	97	0.1-234	3	25	
1,2-Dichloroethane	54.5	1.0	ug/l	50.0	ND	109	49-155	3	25	
1,2-Dichloropropane	52.3	1.0	ug/l	50.0	ND	105	0.1-210	2	25	
2-Butanone	60.5	5.0	ug/l	50.0	ND	121	36-145	2	25	
2-Chloroethyl vinyl ether	38.0	1.0	ug/l	50.0	ND	76	0.1-305	2	25	
2-Hexanone	52.3	5.0	ug/l	50.0	ND	105	46-152	5	25	
4-Methyl-2-pentanone	51.6	5.0	ug/l	50.0	ND	103	54-146	3	25	
Acetone	73.1	5.0	ug/l	50.0	4.57	137	11-169	2	25	
Acrolein	ND	5.0	ug/l	50.0	ND		5-170		25	MS-05
Acrylonitrile	53.8	2.0	ug/l	50.0	ND	108	59-133	0.6	25	
Benzene	52.4	1.0	ug/l	50.0	ND	105	37-151	4	25	

6L16010

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WECK LABORATORIES, INC.

AEI-CASC Consulting
2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

01/26/2017 08:50

Project Manager: Ed Suher

Quality Control Results

(Continued)

Volatile Organics by EPA Method 624 (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6L2001 - EPA 624 (Continued)										
Matrix Spike Dup (W6L2001-MSD1)			Source: 6L16093-01		Prepared: 12/20/16 Analyzed: 12/21/16					
Bromodichloromethane	52.7	1.0	ug/l	50.0	ND	105	35-155	4	25	
Bromoform	46.2	1.0	ug/l	50.0	ND	92	45-169	0.4	25	
Bromomethane	56.5	1.0	ug/l	50.0	ND	113	0.1-242	1	25	
Carbon tetrachloride	51.6	1.0	ug/l	50.0	ND	103	70-140	3	25	
Chlorobenzene	49.2	1.0	ug/l	50.0	ND	98	37-160	1	25	
Chloroethane	54.7	1.0	ug/l	50.0	ND	109	14-230	5	25	
Chloroform	53.9	1.0	ug/l	50.0	ND	108	51-138	4	25	
Chloromethane	54.1	1.0	ug/l	50.0	ND	108	0.1-273	5	25	
cis-1,3-Dichloropropene	45.0	1.0	ug/l	50.0	ND	90	0.1-227	3	25	
Dibromochloromethane	47.3	1.0	ug/l	50.0	ND	95	53-149	3	25	
Dichlorodifluoromethane (Freon 12)	58.8	1.0	ug/l	50.0	ND	118	32-141	3	25	
Ethylbenzene	44.2	1.0	ug/l	50.0	ND	88	37-162	2	25	
m-Dichlorobenzene	47.0	1.0	ug/l	50.0	ND	94	59-156	1	25	
Methylene chloride	52.4	1.0	ug/l	50.0	ND	105	0.1-221	3	25	
o-Dichlorobenzene	47.0	1.0	ug/l	50.0	ND	94	18-190	2	25	
p-Dichlorobenzene	47.7	1.0	ug/l	50.0	ND	95	18-190	1	25	
Tetrachloroethene	48.4	1.0	ug/l	50.0	ND	97	64-148	4	25	
Toluene	52.0	1.0	ug/l	50.0	ND	104	47-150	4	25	
trans-1,2-Dichloroethene	54.7	1.0	ug/l	50.0	ND	109	54-156	4	25	
trans-1,3-Dichloropropene	44.8	1.0	ug/l	50.0	ND	90	17-183	2	25	
Trichloroethene	54.1	1.0	ug/l	50.0	ND	108	71-157	2	25	
Trichlorofluoromethane	51.3	1.0	ug/l	50.0	ND	103	17-181	4	25	
Vinyl chloride	57.8	1.0	ug/l	50.0	ND	116	0.1-251	6	25	
<i>Surrogate(s)</i>										
1,2-Dichloroethane-d4		51.1	ug/l	50.0		102	82-125			
4-Bromofluorobenzene		51.6	ug/l	50.0		103	88-108			
Toluene-d8		51.3	ug/l	50.0		103	92-112			



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Notes and Definitions

Item	Definition
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
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.
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
Q-ME	Acceptable QC with marginal exceedance
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
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.