

Work Orders: 6K21046

Project: Irwindale SW Outfall Monitoring

Attn: Ed Suher

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

Report Date: 12/30/2016

Received Date: 11/21/2016

Turnaround Time: Normal

Phones: (818) 841-9004

Fax: (818) 841-8013

P.O. #:

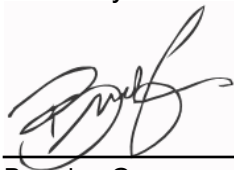
ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC
445A

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 11/21/16 with the Chain-of-Custody document. The samples were received in good condition, at 11.2 °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



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

Project Number: Irwindale SW Outfall Monitoring

Reported:
12/30/2016 10:30

Project Manager: Ed Suher

Sample Summary

Sample ID	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
BDW-027A	ES	6K21046-01	Water	11/21/16 10:00	
BDW-027A	ES	6K21046-01RE1	Water	11/21/16 10:00	
LL Hg Field Blank	ES	6K21046-02	Water	11/21/16 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
Fluoranthene	206-44-0	NELAP
PCB-31	16606-02-3	NELAP
PCB-33	38444-86-9	NELAP



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FINAL REPORT

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Not Certified Analyses Summary

(Continued)

Analyte	CAS #	Not Accredited By
GC/MS/MS in Water (Continued)		
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		
E. coli		NELAP



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Reported:

12/30/2016 10:30

Project Manager: Ed Suher

Sample Results

Sample: BDW-027A

Sampled: 11/21/16 10:00 by ES

6K21046-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Acid and Base/Neutral Extractables by EPA Method 625

Method: EPA 625

Batch ID: W6K1424

Prepared: 11/28/16 09:05

Analyst: etn

1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	12/14/16 09:13	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	12/14/16 09:13	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	12/14/16 09:13	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	12/14/16 09:13	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	12/14/16 09:13	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	12/14/16 09:13	
2,4-Dichlorophenol	ND	1.0	ug/l	1	12/14/16 09:13	
2,4-Dimethylphenol	ND	1.0	ug/l	1	12/14/16 09:13	
2,4-Dinitrophenol	ND	5.0	ug/l	1	12/14/16 09:13	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	12/14/16 09:13	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	12/14/16 09:13	
2-Chloronaphthalene	ND	1.0	ug/l	1	12/14/16 09:13	
2-Chlorophenol	ND	1.0	ug/l	1	12/14/16 09:13	
2-Nitrophenol	ND	1.0	ug/l	1	12/14/16 09:13	
3,3'-Dichlorobenzidine	ND	5.0	ug/l	1	12/14/16 09:13	
4,6-Dinitro-2-methylphenol	ND	5.0	ug/l	1	12/14/16 09:13	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	12/14/16 09:13	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	12/14/16 09:13	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	12/14/16 09:13	
4-Nitrophenol	ND	5.0	ug/l	1	12/14/16 09:13	
Acenaphthene	ND	1.0	ug/l	1	12/14/16 09:13	
Acenaphthylene	ND	1.0	ug/l	1	12/14/16 09:13	
Anthracene	ND	1.0	ug/l	1	12/14/16 09:13	
Benzidine	ND	5.0	ug/l	1	12/14/16 09:13	
Benzo (a) anthracene	ND	1.0	ug/l	1	12/14/16 09:13	
Benzo (a) pyrene	ND	1.0	ug/l	1	12/14/16 09:13	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	12/14/16 09:13	
Benzo (g,h,i) perylene	ND	2.0	ug/l	1	12/14/16 09:13	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	12/14/16 09:13	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	12/14/16 09:13	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	12/14/16 09:13	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	12/14/16 09:13	
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/l	1	12/14/16 09:13	
Butyl benzyl phthalate	ND	1.0	ug/l	1	12/14/16 09:13	
Chrysene	ND	1.0	ug/l	1	12/14/16 09:13	
Dibenzo (a,h) anthracene	ND	2.0	ug/l	1	12/14/16 09:13	

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Reported:
12/30/2016 10:30

Sample Results

(Continued)

Sample: BDW-027A
6K21046-01 (Water)

Sampled: 11/21/16 10:00 by ES
(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	12/14/16 09:13	
Dimethyl phthalate	ND	1.0	ug/l	1	12/14/16 09:13	
Di-n-butyl phthalate	ND	1.0	ug/l	1	12/14/16 09:13	
Di-n-octyl phthalate	ND	1.0	ug/l	1	12/14/16 09:13	
Fluoranthene	ND	1.0	ug/l	1	12/14/16 09:13	
Fluorene	ND	1.0	ug/l	1	12/14/16 09:13	
Hexachlorobenzene	ND	1.0	ug/l	1	12/14/16 09:13	
Hexachlorobutadiene	ND	1.0	ug/l	1	12/14/16 09:13	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	12/14/16 09:13	
Hexachloroethane	ND	1.0	ug/l	1	12/14/16 09:13	
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l	1	12/14/16 09:13	
Isophorone	ND	1.0	ug/l	1	12/14/16 09:13	
Naphthalene	ND	1.0	ug/l	1	12/14/16 09:13	
Nitrobenzene	ND	1.0	ug/l	1	12/14/16 09:13	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	12/14/16 09:13	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	12/14/16 09:13	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	12/14/16 09:13	
Pentachlorophenol	ND	1.0	ug/l	1	12/14/16 09:13	
Phenanthrene	ND	1.0	ug/l	1	12/14/16 09:13	
Phenol	ND	1.0	ug/l	1	12/14/16 09:13	
Pyrene	ND	1.0	ug/l	1	12/14/16 09:13	
<i>Surrogate(s)</i>						
2,4,6-Tribromophenol	83% Conc: 41.4	25-102			12/14/16 09:13	
2-Fluorobiphenyl	71% Conc: 17.8	22-107			12/14/16 09:13	
2-Fluorophenol	47% Conc: 23.3	3-74			12/14/16 09:13	
Nitrobenzene-d5	63% Conc: 15.8	27-111			12/14/16 09:13	
Phenol-d5	35% Conc: 17.4	0.1-53			12/14/16 09:13	
Terphenyl-d14	68% Conc: 16.9	28-113			12/14/16 09:13	

Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W6L1054	Prepared: 12/05/16 10:02	Analyst: jan
Chloride, Total	4.1	0.50 mg/l	1 12/05/16 17:37
Fluoride, Total	ND	0.10 mg/l	1 12/05/16 17:37
Sulfate as SO4	5.9	0.50 mg/l	1 12/05/16 17:37

Chlorinated Herbicides

Method: EPA 515.3	Batch ID: W6K1220	Prepared: 11/22/16 09:09	Analyst: rmr
2,4,5-T	ND	0.20 ug/l	1 12/03/16 22:27
2,4,5-TP (Silvex)	ND	0.20 ug/l	1 12/03/16 22:27
2,4-D	ND	0.40 ug/l	1 12/03/16 22:27

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Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

12/30/2016 10:30

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 11/21/16 10:00 by ES

6K21046-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Herbicides (Continued)						
2,4-DB	ND	2.0	ug/l	1	12/03/16 22:27	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/03/16 22:27	
Acifluorfen	ND	0.40	ug/l	1	12/03/16 22:27	
Bentazon	ND	2.0	ug/l	1	12/03/16 22:27	
Dalapon	ND	0.40	ug/l	1	12/03/16 22:27	
DCPA	ND	0.10	ug/l	1	12/03/16 22:27	
Dicamba	ND	0.60	ug/l	1	12/03/16 22:27	
Dichloroprop	ND	0.30	ug/l	1	12/03/16 22:27	
Dinoseb	ND	0.40	ug/l	1	12/03/16 22:27	
Pentachlorophenol	ND	0.20	ug/l	1	12/03/16 22:27	
Picloram	ND	0.60	ug/l	1	12/03/16 22:27	
<i>Surrogate(s)</i>						
2,4-DCAA	101%	Conc: 10.1	70-130		12/03/16 22:27	

Chlorinated Pesticides and/or PCBs

Method: EPA 608	Batch ID: W6K1312	Prepared: 11/23/16 08:14			Analyst: rmr	
2,4'-DDD	ND	10	ng/l	2	12/22/16 21:53	M-04
2,4'-DDE	ND	10	ng/l	2	12/22/16 21:53	M-04
2,4'-DDT	ND	10	ng/l	2	12/22/16 21:53	M-04
4,4'-DDD	ND	10	ng/l	2	12/22/16 21:53	M-04
4,4'-DDE	ND	10	ng/l	2	12/22/16 21:53	M-04
4,4'-DDT	ND	10	ng/l	2	12/22/16 21:53	M-04
Aldrin	ND	10	ng/l	2	12/22/16 21:53	M-04
alpha-BHC	ND	10	ng/l	2	12/22/16 21:53	M-04
alpha-Chlordane	ND	10	ng/l	2	12/22/16 21:53	M-04
Aroclor 1016	ND	200	ng/l	2	12/22/16 21:53	M-04
Aroclor 1221	ND	200	ng/l	2	12/22/16 21:53	M-04
Aroclor 1232	ND	200	ng/l	2	12/22/16 21:53	M-04
Aroclor 1242	ND	200	ng/l	2	12/22/16 21:53	M-04
Aroclor 1248	ND	200	ng/l	2	12/22/16 21:53	M-04
Aroclor 1254	ND	200	ng/l	2	12/22/16 21:53	M-04
Aroclor 1260	ND	200	ng/l	2	12/22/16 21:53	M-04
beta-BHC	ND	10	ng/l	2	12/22/16 21:53	M-04
Chlordane (tech)	ND	200	ng/l	2	12/22/16 21:53	M-04
cis-Nonachlor	ND	10	ng/l	2	12/22/16 21:53	M-04
delta-BHC	ND	10	ng/l	2	12/22/16 21:53	M-04
Dieldrin	ND	10	ng/l	2	12/22/16 21:53	M-04
Endosulfan I	ND	10	ng/l	2	12/22/16 21:53	M-04
Endosulfan II	ND	10	ng/l	2	12/22/16 21:53	M-04

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12/30/2016 10:30

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Sample Results

(Continued)

Sample: BDW-027A

Sampled: 11/21/16 10:00 by ES

6K21046-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs (Continued)						
Endosulfan sulfate	ND	10	ng/l	2	12/22/16 21:53	M-04
Endrin	ND	10	ng/l	2	12/22/16 21:53	M-04
Endrin aldehyde	ND	10	ng/l	2	12/22/16 21:53	M-04
gamma-BHC (Lindane)	ND	10	ng/l	2	12/22/16 21:53	M-04
gamma-Chlordane	ND	10	ng/l	2	12/22/16 21:53	M-04
Heptachlor	ND	10	ng/l	2	12/22/16 21:53	M-04
Heptachlor epoxide	ND	10	ng/l	2	12/22/16 21:53	M-04
Methoxychlor	ND	10	ng/l	2	12/22/16 21:53	M-04
Mirex	ND	10	ng/l	2	12/22/16 21:53	M-04
Toxaphene	ND	1000	ng/l	2	12/22/16 21:53	M-04
trans-Nonachlor	ND	10	ng/l	2	12/22/16 21:53	M-04
<i>Surrogate(s)</i>						
Decachlorobiphenyl	44% Conc: 43.6	0.1-118			12/22/16 21:53	M-04
Tetrachloro-meta-xylene	45% Conc: 45.4	12-117			12/22/16 21:53	M-04

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

Method: ASTM D7511	Batch ID: W6K1700	Prepared: 11/30/16 21:35	Analyst: mbc
Cyanide, Total	ND	2.0 ug/l	1 12/02/16 21:14
Method: EPA 160.4	Batch ID: W6K1242	Prepared: 11/22/16 11:38	Analyst: ajk
Volatile Suspended Solids	6.0	5.0 mg/l	1 11/22/16 14:35
Method: EPA 1664A	Batch ID: W6K1352	Prepared: 11/23/16 13:06	Analyst: cam
Oil & Grease (HEM)	ND	5.0 mg/l	1 12/01/16 15:20
Method: EPA 180.1	Batch ID: W6K1228	Prepared: 11/22/16 10:13	Analyst: mbc
Turbidity	9.1	0.10 NTU	1 11/22/16 12:57
Method: EPA 350.1	Batch ID: W6K1496	Prepared: 11/28/16 16:42	Analyst: mnq
Ammonia as N	0.37	0.10 mg/l	1 11/29/16 19:02
Method: EPA 351.2	Batch ID: W6K1176	Prepared: 11/21/16 15:24	Analyst: ymt
TKN	1.0	0.10 mg/l	1 11/23/16 13:56
Method: EPA 353.2	Batch ID: W6L1321	Prepared: 12/08/16 16:28	Analyst: AJK
NO2+NO3 as N	600	100 ug/l	1 12/08/16 16:43
Method: EPA 365.1	Batch ID: W6K1603	Prepared: 11/29/16 18:55	Analyst: mbc
Phosphorus as P, Total	0.18	0.010 mg/l	1 12/05/16 14:10
Method: EPA 365.3	Batch ID: W6L0920	Prepared: 12/01/16 16:20	Analyst: dmn
Phosphorus, Dissolved	0.12	0.010 mg/l	1 12/02/16 14:32
Method: EPA 410.4	Batch ID: W6K1653	Prepared: 11/30/16 14:04	Analyst: mnq
Chemical Oxygen Demand	38	5.0 mg/l	1 12/02/16 16:47
Method: EPA 420.4	Batch ID: W6K1313	Prepared: 11/23/16 08:16	Analyst: AJK
Phenolics	ND	0.010 mg/l	1 11/28/16 11:12
Method: SM 2320B	Batch ID: W6K1654	Prepared: 11/30/16 14:14	Analyst: dmn

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Certificate of Analysis

FINAL REPORT

Reported:

12/30/2016 10:30

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 11/21/16 10:00 by ES

6K21046-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Alkalinity as CaCO ₃	39	2.0	mg/l	1	11/30/16 15:00	
Method: SM 2510B	Batch ID: W6K1345	Prepared: 11/23/16 12:25				Analyst: dmn
Specific Conductance (EC)	100	2.0	umhos/cm	1	11/23/16 15:04	
Method: SM 2540C	Batch ID: W6K1289	Prepared: 11/22/16 16:19				Analyst: ymt
Total Dissolved Solids	51	10	mg/l	1	11/23/16 13:25	
Method: SM 2540D	Batch ID: W6K1241	Prepared: 11/22/16 11:41				Analyst: ajk
Total Suspended Solids	13	5	mg/l	1	11/22/16 14:35	
Method: SM 4500O-G	Batch ID: W6K1202	Prepared: 11/21/16 18:31				Analyst: mnq
Dissolved Oxygen	9.05	1.00	mg/l	1	11/21/16 19:02	*
Method: SM 5210B	Batch ID: W6K1239	Prepared: 11/22/16 11:37				Analyst: mnq
Biochemical Oxygen Demand	3.6	2.0	mg/l	1	11/27/16 18:25	
Method: SM 5310C	Batch ID: W6K1627	Prepared: 11/30/16 10:01				Analyst: jlp
Total Organic Carbon (TOC)	9.4	2.4	mg/l	8	11/30/16 12:55	
Method: SM 5540C	Batch ID: W6K1179	Prepared: 11/21/16 16:11				Analyst: nat
MBAS	0.34	0.050	mg/l	1	11/21/16 18:38	
Glyphosate by EPA 547						
Method: EPA 547	Batch ID: W6K1430	Prepared: 11/28/16 09:44				Analyst: pjs
Glyphosate	5.1	5.0	ug/l	1	11/28/16 13:44	
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W6L0976	Prepared: 12/02/16 13:50				Analyst: blg
Chromium 6+	0.24	0.020	ug/l	1	12/02/16 14:50	
Method: EPA 218.6	Batch ID: W6L1017	Prepared: 12/03/16 10:22				Analyst: blg
Chromium 6+, Dissolved	0.27	0.020	ug/l	1	12/03/16 12:46	
Hydrocarbons by EPA 8015B						
Method: EPA 8015B	Batch ID: W6K1375	Prepared: 11/23/16 16:44				Analyst: enf
Diesel Range Organics	0.55	0.10	mg/l	1	12/02/16 00:31	
Oil Range Organics	0.84	0.50	mg/l	1	12/02/16 00:31	
Surrogate(s)						
n-Tetracosane	99% Conc: 0.261	64-155			12/02/16 00:31	
Method: EPA 8015B	Batch ID: W6K1642	Prepared: 11/30/16 11:40				Analyst: mtn
Gasoline Range Organics	ND	0.10	mg/l	1	11/30/16 15:23	
Surrogate(s)						
4-Bromofluorobenzene	92% Conc: 0.0460	72-124			11/30/16 15:23	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	Batch ID: W6L0944	Prepared: 11/21/16 18:35				Analyst: gza
Mercury, Dissolved	3.4	0.50	ng/l	1	12/02/16 14:24	
Mercury, Total	6.7	0.50	ng/l	1	12/02/16 14:24	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	Batch ID: [CALC]	Prepared: 12/01/16 15:39				Analyst: JCK

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Reported:

12/30/2016 10:30

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: BDW-027A
6K21046-01 (Water)

Sampled: 11/21/16 10:00 by ES

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Calcium Hardness as CaCO3	29.8	0.250	mg/l	1	12/05/16 11:59	
Method: EPA 200.7	Batch ID: W6L0911	Prepared: 12/01/16 15:39				Analyst: JCK
Calcium, Total	11.9	0.100	mg/l	1	12/05/16 11:59	
Method: EPA 200.8	Batch ID: W6L0888	Prepared: 12/01/16 11:40				Analyst: MTT
Aluminum, Dissolved	21	5.0	ug/l	1	12/06/16 00:36	
Aluminum, Total	340	5.0	ug/l	1	12/06/16 02:07	
Antimony, Dissolved	0.71	0.50	ug/l	1	12/06/16 00:36	
Antimony, Total	1.1	0.50	ug/l	1	12/06/16 02:07	
Arsenic, Dissolved	0.93	0.40	ug/l	1	12/06/16 00:36	
Arsenic, Total	1.1	0.40	ug/l	1	12/06/16 02:07	
Beryllium, Dissolved	ND	0.10	ug/l	1	12/06/16 00:36	
Beryllium, Total	ND	0.10	ug/l	1	12/06/16 02:07	
Cadmium, Dissolved	ND	0.10	ug/l	1	12/06/16 00:36	
Cadmium, Total	ND	0.10	ug/l	1	12/06/16 02:07	
Chromium, Dissolved	0.43	0.20	ug/l	1	12/06/16 00:36	
Chromium, Total	1.0	0.20	ug/l	1	12/06/16 02:07	
Copper, Dissolved	8.2	0.50	ug/l	1	12/06/16 00:36	
Copper, Total	12	0.50	ug/l	1	12/06/16 02:07	
Iron, Dissolved	ND	20	ug/l	1	12/06/16 00:36	
Iron, Total	430	20	ug/l	1	12/06/16 02:07	
Lead, Dissolved	ND	0.20	ug/l	1	12/06/16 00:36	
Lead, Total	2.2	0.20	ug/l	1	12/06/16 02:07	
Nickel, Dissolved	1.4	0.80	ug/l	1	12/06/16 00:36	
Nickel, Total	1.8	0.80	ug/l	1	12/06/16 02:07	
Selenium, Dissolved	ND	0.40	ug/l	1	12/06/16 00:36	
Selenium, Total	ND	0.40	ug/l	1	12/06/16 02:07	
Silver, Dissolved	ND	0.20	ug/l	1	12/06/16 00:36	
Silver, Total	ND	0.20	ug/l	1	12/06/16 02:07	
Thallium, Dissolved	ND	0.20	ug/l	1	12/06/16 00:36	
Thallium, Total	ND	0.20	ug/l	1	12/06/16 02:07	
Method: EPA 200.8	Batch ID: W6L1183	Prepared: 12/06/16 15:30				Analyst: MTT
Zinc, Dissolved	86	5.0	ug/l	1	12/09/16 15:30	
Zinc, Total	110	5.0	ug/l	1	12/09/16 16:10	
Microbiological Parameters by Standard Methods						
Method: Enterolert	Batch ID: W6K1411	Prepared: 11/21/16 12:11				Analyst: smo
Enterococcus	1200	10	MPN/100ml	10	11/22/16 12:11	
Method: SM 9221B	Batch ID: W6K1412	Prepared: 11/21/16 11:55				Analyst: smo

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Sample Results

(Continued)

Sample: BDW-027A

Sampled: 11/21/16 10:00 by ES

6K21046-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Microbiological Parameters by Standard Methods (Continued)						
Total Coliform	11000	20	MPN/100ml	10	11/25/16 11:06	
Method: SM 9221E	Batch ID: W6K1412	Prepared: 11/21/16 11:55				Analyst: smo
Fecal Coliform	2300	20	MPN/100ml	10	11/24/16 11:21	
Method: SM 9221F	Batch ID: W6K1412	Prepared: 11/21/16 11:55				Analyst: smo
E. coli	2300	20	MPN/100ml	10	11/24/16 11:21	
PCB Congener Screen by GCMS SIM						
Method: GC/MS/MS	Batch ID: W6K1547	Prepared: 11/29/16 12:29				Analyst: EFC
PCB-101	ND	10	ng/l	1	12/05/16 21:11	
PCB-105	ND	10	ng/l	1	12/05/16 21:11	
PCB-110	ND	10	ng/l	1	12/06/16 06:36	
PCB-114	ND	10	ng/l	1	12/05/16 21:11	
PCB-118	ND	10	ng/l	1	12/05/16 21:11	
PCB-119	ND	10	ng/l	1	12/06/16 06:36	
PCB-123	ND	10	ng/l	1	12/05/16 21:11	
PCB-126	ND	10	ng/l	1	12/05/16 21:11	
PCB-128	ND	10	ng/l	1	12/05/16 21:11	
PCB-132	ND	10	ng/l	1	12/06/16 06:36	
PCB-138	ND	10	ng/l	1	12/05/16 21:11	
PCB-141	ND	10	ng/l	1	12/06/16 06:36	
PCB-149	ND	10	ng/l	1	12/06/16 06:36	
PCB-151	ND	10	ng/l	1	12/06/16 06:36	
PCB-153	ND	10	ng/l	1	12/05/16 21:11	
PCB-156	ND	10	ng/l	1	12/05/16 21:11	
PCB-157	ND	10	ng/l	1	12/05/16 21:11	
PCB-158	ND	10	ng/l	1	12/06/16 06:36	
PCB-167	ND	10	ng/l	1	12/05/16 21:11	
PCB-168	ND	10	ng/l	1	12/06/16 06:36	
PCB-169	ND	10	ng/l	1	12/05/16 21:11	
PCB-170	ND	10	ng/l	1	12/05/16 21:11	
PCB-174	ND	10	ng/l	1	12/06/16 06:36	
PCB-177	ND	10	ng/l	1	12/06/16 06:36	
PCB-18	ND	10	ng/l	1	12/05/16 21:11	
PCB-180	ND	10	ng/l	1	12/05/16 21:11	
PCB-183	ND	10	ng/l	1	12/06/16 06:36	
PCB-187	ND	10	ng/l	1	12/05/16 21:11	
PCB-189	ND	10	ng/l	1	12/05/16 21:11	
PCB-194	ND	10	ng/l	1	12/06/16 06:36	



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Sample Results

(Continued)

Sample: BDW-027A

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6K21046-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
PCB Congener Screen by GCMS SIM (Continued)						
PCB-195	ND	10	ng/l	1	12/05/16 21:11	
PCB-200	ND	10	ng/l	1	12/06/16 06:36	
PCB-201	ND	10	ng/l	1	12/06/16 06:36	
PCB-203	ND	10	ng/l	1	12/06/16 06:36	
PCB-206	ND	10	ng/l	1	12/05/16 21:11	
PCB-209	ND	10	ng/l	1	12/05/16 21:11	
PCB-28	ND	10	ng/l	1	12/05/16 21:11	
PCB-3	ND	10	ng/l	1	12/06/16 06:36	
PCB-31	ND	10	ng/l	1	12/06/16 06:36	
PCB-33	ND	10	ng/l	1	12/06/16 06:36	
PCB-37	ND	10	ng/l	1	12/06/16 06:36	
PCB-44	ND	10	ng/l	1	12/05/16 21:11	
PCB-49	ND	10	ng/l	1	12/06/16 06:36	
PCB-52	ND	10	ng/l	1	12/05/16 21:11	
PCB-56	ND	10	ng/l	1	12/06/16 06:36	
PCB-60	ND	10	ng/l	1	12/06/16 06:36	
PCB-66	ND	10	ng/l	1	12/05/16 21:11	
PCB-70	ND	10	ng/l	1	12/06/16 06:36	
PCB-74	ND	10	ng/l	1	12/06/16 06:36	
PCB-77	ND	10	ng/l	1	12/05/16 21:11	
PCB-8	ND	10	ng/l	1	12/05/16 21:11	
PCB-81	ND	10	ng/l	1	12/05/16 21:11	
PCB-87	ND	10	ng/l	1	12/06/16 06:36	
PCB-95	ND	10	ng/l	1	12/06/16 06:36	
PCB-97	ND	10	ng/l	1	12/06/16 06:36	
PCB-99	ND	10	ng/l	1	12/06/16 06:36	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	80%	Conc: 201	49-146		12/05/16 21:11	
Triphenyl phosphate	128%	Conc: 321	30-213		12/05/16 21:11	

Perchlorate by EPA 314.0

Method: EPA 314.0		Batch ID: W6L1311		Prepared: 12/08/16 09:43		Analyst: jan	
Perchlorate	ND	2.0	ug/l	1	12/08/16 21:36		

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2	Batch ID: W6K1515	Prepared: 11/29/16 08:32			Analyst: EFC
Azinphos methyl (Guthion)	ND	10	ng/l	1	11/30/16 21:44
Bolstar	ND	10	ng/l	1	11/30/16 21:44
Chlorpyrifos	ND	10	ng/l	1	11/30/16 21:44
Coumaphos	ND	10	ng/l	1	11/30/16 21:44

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Sample Results

(Continued)

Sample: BDW-027A

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6K21046-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Demeton-o	ND	10	ng/l	1	11/30/16 21:44	
Demeton-s	ND	10	ng/l	1	11/30/16 21:44	
Diazinon	ND	10	ng/l	1	11/30/16 21:44	
Dichlorvos	ND	10	ng/l	1	11/30/16 21:44	
Dimethoate	ND	10	ng/l	1	11/30/16 21:44	
Disulfoton	ND	10	ng/l	1	11/30/16 21:44	
Ethoprop	ND	10	ng/l	1	11/30/16 21:44	
Ethyl parathion	ND	10	ng/l	1	11/30/16 21:44	
Fensulfothion	ND	10	ng/l	1	11/30/16 21:44	
Fenthion	ND	10	ng/l	1	11/30/16 21:44	
Malathion	ND	10	ng/l	1	11/30/16 21:44	
Merphos	ND	10	ng/l	1	11/30/16 21:44	
Methyl parathion	ND	10	ng/l	1	11/30/16 21:44	
Mevinphos	ND	10	ng/l	1	11/30/16 21:44	
Naled	ND	10	ng/l	1	11/30/16 21:44	
Phorate	ND	10	ng/l	1	11/30/16 21:44	
Ronnel	ND	10	ng/l	1	11/30/16 21:44	
Stirophos	ND	10	ng/l	1	11/30/16 21:44	
Tokuthion (Prothiofos)	ND	10	ng/l	1	11/30/16 21:44	
Trichloronate	ND	10	ng/l	1	11/30/16 21:44	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	91% Conc: 454	76-128			11/30/16 21:44	
Triphenyl phosphate	53% Conc: 266	40-163			11/30/16 21:44	
Method: EPA 525.2						
Batch ID: W6K1608		Prepared: 11/30/16 08:22			Analyst: etn	
Alachlor	ND	0.10	ug/l	1	12/09/16 03:08	
Atrazine	ND	0.10	ug/l	1	12/09/16 03:08	
Bromacil	ND	0.50	ug/l	1	12/09/16 03:08	
Butachlor	ND	0.10	ug/l	1	12/09/16 03:08	
Chlorpropham	ND	0.10	ug/l	1	12/09/16 03:08	
Cyanazine	ND	0.10	ug/l	1	12/09/16 03:08	
Diazinon	ND	0.10	ug/l	1	12/09/16 03:08	
Dimethoate	ND	0.20	ug/l	1	12/09/16 03:08	
Diphenamid	ND	0.10	ug/l	1	12/09/16 03:08	
Disulfoton	ND	0.10	ug/l	1	12/09/16 03:08	
EPTC	ND	0.10	ug/l	1	12/09/16 03:08	
Metolachlor	ND	0.10	ug/l	1	12/09/16 03:08	
Metribuzin	ND	0.10	ug/l	1	12/09/16 03:08	
Molinate	ND	0.10	ug/l	1	12/09/16 03:08	

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Sample Results

(Continued)

Sample: BDW-027A

Sampled: 11/21/16 10:00 by ES

6K21046-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Prometon	ND	0.10	ug/l	1	12/09/16 03:08	
Prometryn	ND	0.10	ug/l	1	12/09/16 03:08	
Simazine	ND	0.10	ug/l	1	12/09/16 03:08	
Terbacil	ND	2.0	ug/l	1	12/09/16 03:08	
Thiobencarb	ND	0.10	ug/l	1	12/09/16 03:08	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	92% Conc: 4.62	73-138			12/09/16 03:08	
Perylene-d12	58% Conc: 2.91	30-118			12/09/16 03:08	
Triphenyl phosphate	101% Conc: 5.07	70-149			12/09/16 03:08	

Volatile Organics by EPA Method 624

Method: EPA 624	Batch ID: W6K1385	Prepared: 11/23/16 10:07	Analyst: rhr
1,1,1-Trichloroethane	ND	1.0 ug/l	1 11/24/16 05:58
1,1,2,2-Tetrachloroethane	ND	1.0 ug/l	1 11/24/16 05:58
1,1,2-Trichloroethane	ND	1.0 ug/l	1 11/24/16 05:58
1,1-Dichloroethane	ND	1.0 ug/l	1 11/24/16 05:58
1,1-Dichloroethene	ND	1.0 ug/l	1 11/24/16 05:58
1,2-Dichloroethane	ND	1.0 ug/l	1 11/24/16 05:58
1,2-Dichloropropane	ND	1.0 ug/l	1 11/24/16 05:58
2-Butanone	ND	5.0 ug/l	1 11/24/16 05:58
2-Chloroethyl vinyl ether	ND	1.0 ug/l	1 11/24/16 05:58
2-Hexanone	ND	5.0 ug/l	1 11/24/16 05:58
4-Methyl-2-pentanone	ND	5.0 ug/l	1 11/24/16 05:58
Acetone	ND	5.0 ug/l	1 11/24/16 05:58
Acrolein	ND	5.0 ug/l	1 11/24/16 05:58
Acrylonitrile	ND	2.0 ug/l	1 11/24/16 05:58
Benzene	ND	1.0 ug/l	1 11/24/16 05:58
Bromodichloromethane	ND	1.0 ug/l	1 11/24/16 05:58
Bromoform	ND	1.0 ug/l	1 11/24/16 05:58
Bromomethane	ND	1.0 ug/l	1 11/24/16 05:58
Carbon Disulfide	ND	1.0 ug/l	1 11/24/16 05:58
Carbon tetrachloride	ND	1.0 ug/l	1 11/24/16 05:58
Chlorobenzene	ND	1.0 ug/l	1 11/24/16 05:58
Chloroethane	ND	1.0 ug/l	1 11/24/16 05:58
Chloroform	ND	1.0 ug/l	1 11/24/16 05:58
Chloromethane	ND	1.0 ug/l	1 11/24/16 05:58
cis-1,3-Dichloropropene	ND	1.0 ug/l	1 11/24/16 05:58
Dibromochloromethane	ND	1.0 ug/l	1 11/24/16 05:58
Dichlorodifluoromethane (Freon 12)	ND	1.0 ug/l	1 11/24/16 05:58

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Sample Results

(Continued)

Sample: BDW-027A

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6K21046-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by EPA Method 624 (Continued)						
Ethylbenzene	ND	1.0	ug/l	1	11/24/16 05:58	
m-Dichlorobenzene	ND	1.0	ug/l	1	11/24/16 05:58	
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/l	1	11/24/16 05:58	
Methylene chloride	ND	1.0	ug/l	1	11/24/16 05:58	
o-Dichlorobenzene	ND	1.0	ug/l	1	11/24/16 05:58	
p-Dichlorobenzene	ND	1.0	ug/l	1	11/24/16 05:58	
Tetrachloroethene	ND	1.0	ug/l	1	11/24/16 05:58	
Toluene	ND	1.0	ug/l	1	11/24/16 05:58	
trans-1,2-Dichloroethene	ND	1.0	ug/l	1	11/24/16 05:58	
trans-1,3-Dichloropropene	ND	1.0	ug/l	1	11/24/16 05:58	
Trichloroethene	ND	1.0	ug/l	1	11/24/16 05:58	
Trichlorofluoromethane	ND	1.0	ug/l	1	11/24/16 05:58	
Vinyl chloride	ND	1.0	ug/l	1	11/24/16 05:58	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	102% Conc: 50.8	82-125			11/24/16 05:58	
4-Bromofluorobenzene	96% Conc: 48.0	88-108			11/24/16 05:58	
Toluene-d8	99% Conc: 49.4	92-112			11/24/16 05:58	



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Project Manager: Ed Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 11/21/16 10:00 by ES

6K21046-01RE1 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS						
Method: GC/MS/MS	Batch ID: W6L0875	Prepared: 12/01/16 10:09			Analyst: EFC	
Acenaphthene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Acenaphthylene	ND	10	ng/l	1	12/07/16 16:38	O-08, M-02
Anthracene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Benzo (a) anthracene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Benzo (a) pyrene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Benzo (b) fluoranthene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Benzo (g,h,i) perylene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Benzo (k) fluoranthene	ND	10	ng/l	1	12/07/16 16:38	O-08, M-02
Chrysene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Dibenzo (a,h) anthracene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Fluoranthene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Fluorene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Indeno (1,2,3-cd) pyrene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Naphthalene	ND	10	ng/l	1	12/07/16 16:38	O-08, M-02
Phenanthrene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Pyrene	ND	10	ng/l	1	12/07/16 16:38	M-02, O-08
Surrogate(s)						
1,3-Dimethyl-2-nitrobenzene	35% Conc: 69.9	50-150			12/07/16 16:38	M-02, O-08, S-GC
Perylene-d12	60% Conc: 119	50-150			12/07/16 16:38	M-02, O-08



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:

12/30/2016 10:30

Project Manager: Ed Suher

Sample Results

(Continued)

Sample: LL Hg Field Blank
6K21046-02 (Water)

Sampled: 11/21/16 0:00 by ES

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

Method: EPA 1631E

Batch ID: W6L0944

Prepared: 11/21/16 18:35

Analyst: gza

Mercury, Total	ND	0.50	ng/l	1	12/02/16 14:24	
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FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

12/30/2016 10:30

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: W6K1424 - EPA 625										
Blank (W6K1424-BLK1)				Prepared: 11/28/16 Analyzed: 12/14/16						
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	5.0	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	5.0	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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Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

12/30/2016 10:30

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: W6K1424 - EPA 625 (Continued)

Blank (W6K1424-BLK1)

Prepared: 11/28/16 Analyzed: 12/14/16

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	33.1	ug/l	50.0	66	25-102
2-Fluorobiphenyl	18.4	ug/l	25.0	74	22-107
2-Fluorophenol	29.6	ug/l	50.0	59	3-74
Nitrobenzene-d5	19.3	ug/l	25.0	77	27-111
Phenol-d5	17.8	ug/l	50.0	36	0.1-53
Terphenyl-d14	17.4	ug/l	25.0	70	28-113



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Reported:

12/30/2016 10:30

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: W6K1424 - EPA 625 (Continued)										
LCS (W6K1424-BS1)				Prepared: 11/28/16 Analyzed: 12/14/16						
1,2,4-Trichlorobenzene	19.9	1.0	ug/l	25.0		80	44-142			
1,2-Dichlorobenzene	19.0	1.0	ug/l	25.0		76	32-129			
1,3-Dichlorobenzene	19.8	1.0	ug/l	25.0		79	0.1-172			
1,4-Dichlorobenzene	20.5	1.0	ug/l	25.0		82	20-124			
2,4,6-Trichlorophenol	23.1	1.0	ug/l	25.0		92	37-144			
2,4-Dichlorophenol	21.1	1.0	ug/l	25.0		84	39-135			
2,4-Dimethylphenol	18.4	1.0	ug/l	25.0		74	32-119			
2,4-Dinitrophenol	15.3	10	ug/l	25.0		61	0.1-191			
2,4-Dinitrotoluene	22.3	1.0	ug/l	25.0		89	39-139			
2,6-Dinitrotoluene	22.4	1.0	ug/l	25.0		90	50-158			
2-Chloronaphthalene	22.1	1.0	ug/l	25.0		89	60-118			
2-Chlorophenol	20.5	1.0	ug/l	25.0		82	23-134			
2-Nitrophenol	20.6	1.0	ug/l	25.0		82	29-182			
3,3'-Dichlorobenzidine	19.3	5.0	ug/l	25.0		77	0.1-262			
4,6-Dinitro-2-methylphenol	20.2	5.0	ug/l	25.0		81	0.1-181			
4-Bromophenyl phenyl ether	19.2	1.0	ug/l	25.0		77	53-127			
4-Chloro-3-methylphenol	24.1	1.0	ug/l	25.0		96	22-147			
4-Chlorophenyl phenyl ether	22.5	1.0	ug/l	25.0		90	25-158			
4-Nitrophenol	10.1	5.0	ug/l	25.0		41	0.1-132			
Acenaphthene	22.8	1.0	ug/l	25.0		91	47-145			
Acenaphthylene	23.6	1.0	ug/l	25.0		94	33-145			
Anthracene	22.7	1.0	ug/l	25.0		91	27-133			
Benzo (a) anthracene	25.2	1.0	ug/l	25.0		101	33-143			
Benzo (a) pyrene	27.5	1.0	ug/l	25.0		110	17-163			
Benzo (b) fluoranthene	28.4	1.0	ug/l	25.0		113	24-159			
Benzo (g,h,i) perylene	18.2	2.0	ug/l	25.0		73	0.1-219			
Benzo (k) fluoranthene	30.4	1.0	ug/l	25.0		122	11-162			
Bis(2-chloroethoxy)methane	21.0	1.0	ug/l	25.0		84	33-184			
Bis(2-chloroethyl)ether	21.2	1.0	ug/l	25.0		85	12-158			
Bis(2-chloroisopropyl)ether	21.8	1.0	ug/l	25.0		87	36-166			
Bis(2-ethylhexyl)phthalate	23.8	5.0	ug/l	25.0		95	8-158			
Butyl benzyl phthalate	24.0	1.0	ug/l	25.0		96	0.1-152			
Chrysene	24.4	1.0	ug/l	25.0		98	17-168			
Dibenzo (a,h) anthracene	9.54	2.0	ug/l	25.0		38	0.1-227			
Diethyl phthalate	24.2	1.0	ug/l	25.0		97	0.1-114			
Dimethyl phthalate	23.5	1.0	ug/l	25.0		94	0.1-112			
Di-n-butyl phthalate	24.6	1.0	ug/l	25.0		98	1-118			

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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:

12/30/2016 10:30

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: W6K1424 - EPA 625 (Continued)

LCS (W6K1424-BS1)

Prepared: 11/28/16 Analyzed: 12/14/16

Di-n-octyl phthalate	27.6	1.0	ug/l	25.0		110	4-146			
Fluoranthene	23.4	1.0	ug/l	25.0		94	26-137			
Fluorene	23.1	1.0	ug/l	25.0		92	59-121			
Hexachlorobenzene	19.3	1.0	ug/l	25.0		77	0.1-152			
Hexachlorobutadiene	20.1	1.0	ug/l	25.0		80	24-116			
Hexachlorocyclopentadiene	13.8	5.0	ug/l	25.0		55	0.1-81			
Hexachloroethane	17.9	1.0	ug/l	25.0		72	40-113			
Indeno (1,2,3-cd) pyrene	19.4	2.0	ug/l	25.0		77	0.1-171			
Isophorone	23.0	1.0	ug/l	25.0		92	21-196			
Naphthalene	21.4	1.0	ug/l	25.0		85	21-133			
Nitrobenzene	20.3	1.0	ug/l	25.0		81	35-180			
N-Nitrosodimethylamine	15.9	1.0	ug/l	25.0		64	28-75			
N-Nitrosodi-n-propylamine	23.0	1.0	ug/l	25.0		92	0.1-230			
N-Nitrosodiphenylamine	19.3	1.0	ug/l	25.0		77	42-90			
Pentachlorophenol	17.4	1.0	ug/l	25.0		70	14-176			
Phenanthrene	22.7	1.0	ug/l	25.0		91	54-120			
Phenol	9.48	1.0	ug/l	25.0		38	5-112			
Pyrene	24.0	1.0	ug/l	25.0		96	52-115			

Surrogate(s)

2,4,6-Tribromophenol	40.4	ug/l	50.0		81	25-102				
2-Fluorobiphenyl	21.4	ug/l	25.0		85	22-107				
2-Fluorophenol	27.4	ug/l	50.0		55	3-74				
Nitrobenzene-d5	19.5	ug/l	25.0		78	27-111				
Phenol-d5	19.0	ug/l	50.0		38	0.1-53				
Terphenyl-d14	20.8	ug/l	25.0		83	28-113				

LCS Dup (W6K1424-BSD1)

Prepared: 11/28/16 Analyzed: 12/14/16

1,2,4-Trichlorobenzene	19.0	1.0	ug/l	25.0		76	44-142	5	30	
1,2-Dichlorobenzene	18.5	1.0	ug/l	25.0		74	32-129	3	30	
1,3-Dichlorobenzene	17.7	1.0	ug/l	25.0		71	0.1-172	11	30	
1,4-Dichlorobenzene	19.1	1.0	ug/l	25.0		76	20-124	7	30	
2,4,6-Trichlorophenol	21.1	1.0	ug/l	25.0		85	37-144	9	30	
2,4-Dichlorophenol	20.5	1.0	ug/l	25.0		82	39-135	3	30	
2,4-Dimethylphenol	18.2	1.0	ug/l	25.0		73	32-119	1	30	
2,4-Dinitrophenol	13.0	10	ug/l	25.0		52	0.1-191	16	30	
2,4-Dinitrotoluene	21.3	1.0	ug/l	25.0		85	39-139	5	30	
2,6-Dinitrotoluene	20.9	1.0	ug/l	25.0		84	50-158	7	30	
2-Chloronaphthalene	20.0	1.0	ug/l	25.0		80	60-118	10	30	



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Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

12/30/2016 10:30

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: W6K1424 - EPA 625 (Continued)										
LCS Dup (W6K1424-BSD1)				Prepared: 11/28/16 Analyzed: 12/14/16						
2-Chlorophenol	18.5	1.0	ug/l	25.0		74	23-134	11	30	
2-Nitrophenol	19.6	1.0	ug/l	25.0		78	29-182	5	30	
3,3'-Dichlorobenzidine	19.2	5.0	ug/l	25.0		77	0.1-262	0.7	30	
4,6-Dinitro-2-methylphenol	19.6	5.0	ug/l	25.0		78	0.1-181	3	30	
4-Bromophenyl phenyl ether	18.1	1.0	ug/l	25.0		73	53-127	6	30	
4-Chloro-3-methylphenol	22.3	1.0	ug/l	25.0		89	22-147	8	30	
4-Chlorophenyl phenyl ether	20.7	1.0	ug/l	25.0		83	25-158	8	30	
4-Nitrophenol	9.65	5.0	ug/l	25.0		39	0.1-132	5	30	
Acenaphthene	20.2	1.0	ug/l	25.0		81	47-145	12	30	
Acenaphthylene	21.1	1.0	ug/l	25.0		84	33-145	11	30	
Anthracene	22.3	1.0	ug/l	25.0		89	27-133	2	30	
Benzo (a) anthracene	25.3	1.0	ug/l	25.0		101	33-143	0.8	30	
Benzo (a) pyrene	22.9	1.0	ug/l	25.0		92	17-163	18	30	
Benzo (b) fluoranthene	24.3	1.0	ug/l	25.0		97	24-159	15	30	
Benzo (g,h,i) perylene	19.7	2.0	ug/l	25.0		79	0.1-219	8	30	
Benzo (k) fluoranthene	24.1	1.0	ug/l	25.0		97	11-162	23	30	
Bis(2-chloroethoxy)methane	20.3	1.0	ug/l	25.0		81	33-184	3	30	
Bis(2-chloroethyl)ether	18.9	1.0	ug/l	25.0		76	12-158	11	30	
Bis(2-chloroisopropyl)ether	20.8	1.0	ug/l	25.0		83	36-166	5	30	
Bis(2-ethylhexyl)phthalate	23.7	5.0	ug/l	25.0		95	8-158	0.8	30	
Butyl benzyl phthalate	23.5	1.0	ug/l	25.0		94	0.1-152	2	30	
Chrysene	23.0	1.0	ug/l	25.0		92	17-168	6	30	
Dibenzo (a,h) anthracene	10.6	2.0	ug/l	25.0		42	0.1-227	11	30	
Diethyl phthalate	22.7	1.0	ug/l	25.0		91	0.1-114	7	30	
Dimethyl phthalate	21.6	1.0	ug/l	25.0		86	0.1-112	8	30	
Di-n-butyl phthalate	25.2	1.0	ug/l	25.0		101	1-118	2	30	
Di-n-octyl phthalate	25.0	1.0	ug/l	25.0		100	4-146	10	30	
Fluoranthene	23.9	1.0	ug/l	25.0		96	26-137	2	30	
Fluorene	21.2	1.0	ug/l	25.0		85	59-121	8	30	
Hexachlorobenzene	18.3	1.0	ug/l	25.0		73	0.1-152	6	30	
Hexachlorobutadiene	17.8	1.0	ug/l	25.0		71	24-116	12	30	
Hexachlorocyclopentadiene	11.7	5.0	ug/l	25.0		47	0.1-81	16	30	
Hexachloroethane	17.3	1.0	ug/l	25.0		69	40-113	3	30	
Indeno (1,2,3-cd) pyrene	21.2	2.0	ug/l	25.0		85	0.1-171	9	30	
Isophorone	21.8	1.0	ug/l	25.0		87	21-196	5	30	
Naphthalene	18.9	1.0	ug/l	25.0		76	21-133	12	30	
Nitrobenzene	19.1	1.0	ug/l	25.0		77	35-180	6	30	

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WECK LABORATORIES, INC.

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Burbank, CA 91505

Certificate of Analysis

FINAL REPORT

Project Number: Irwindale SW Outfall Monitoring

Reported:

12/30/2016 10:30

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
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Batch: W6K1424 - EPA 625 (Continued)

LCS Dup (W6K1424-BSD1)

Prepared: 11/28/16 Analyzed: 12/14/16

N-Nitrosodimethylamine	14.9	1.0	ug/l	25.0		60	28-75	6	30	
N-Nitrosodi-n-propylamine	22.0	1.0	ug/l	25.0		88	0.1-230	4	30	
N-Nitrosodiphenylamine	18.4	1.0	ug/l	25.0		74	42-90	5	30	
Pentachlorophenol	16.6	1.0	ug/l	25.0		67	14-176	4	30	
Phenanthrene	21.9	1.0	ug/l	25.0		88	54-120	4	30	
Phenol	8.91	1.0	ug/l	25.0		36	5-112	6	30	
Pyrene	25.5	1.0	ug/l	25.0		102	52-115	6	30	

Surrogate(s)

2,4,6-Tribromophenol	37.8	ug/l	50.0		76	25-102				
2-Fluorobiphenyl	18.7	ug/l	25.0		75	22-107				
2-Fluorophenol	26.8	ug/l	50.0		54	3-74				
Nitrobenzene-d5	18.5	ug/l	25.0		74	27-111				
Phenol-d5	17.0	ug/l	50.0		34	0.1-53				
Terphenyl-d14	19.8	ug/l	25.0		79	28-113				



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Project Number: Irwindale SW Outfall Monitoring

Reported:

12/30/2016 10:30

Project Manager: Ed Suher

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: W6L1054 - EPA 300.0										
Blank (W6L1054-BLK1)				Prepared & Analyzed: 12/05/16						
Chloride, Total	ND	0.50	mg/l							
Fluoride, Total	ND	0.10	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W6L1054-BS1)				Prepared & Analyzed: 12/05/16						
Chloride, Total	2.31	0.50	mg/l	2.50		92	90-110			
Fluoride, Total	0.484	0.10	mg/l	0.500		97	90-110			
Sulfate as SO4	2.42	0.50	mg/l	2.50		97	90-110			
Matrix Spike (W6L1054-MS1)				Source: 6K21076-01		Prepared & Analyzed: 12/05/16				
Chloride, Total	4.72	0.50	mg/l	2.50	2.48	90	76-118			
Fluoride, Total	0.568	0.10	mg/l	0.500	0.0966	94	86-107			
Sulfate as SO4	5.92	0.50	mg/l	2.50	3.63	92	78-111			
Matrix Spike Dup (W6L1054-MSD1)				Source: 6K21076-01		Prepared & Analyzed: 12/05/16				
Chloride, Total	4.70	0.50	mg/l	2.50	2.48	89	76-118	0.6	20	
Fluoride, Total	0.566	0.10	mg/l	0.500	0.0966	94	86-107	0.4	20	
Sulfate as SO4	5.85	0.50	mg/l	2.50	3.63	89	78-111	1	20	



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Project Manager: Ed Suher

Quality Control Results

(Continued)

Chlorinated Herbicides

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
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Batch: W6K1220 - EPA 515.3

Blank (W6K1220-BLK1)

Prepared: 11/22/16 Analyzed: 12/03/16

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

Surrogate(s)

2,4-DCAA	9.02	ug/l	10.0	90	70-130
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LCS (W6K1220-BS1)

Prepared: 11/22/16 Analyzed: 12/03/16

2,4,5-T	3.71	0.20	ug/l	4.00	93	70-130
2,4,5-TP (Silvex)	3.60	0.20	ug/l	4.00	90	70-130
2,4-D	7.27	0.40	ug/l	8.00	91	70-130
2,4-DB	13.4	2.0	ug/l	16.0	84	70-130
3,5-Dichlorobenzoic acid	7.52	1.0	ug/l	8.00	94	70-130
Acifluorfen	3.39	0.40	ug/l	4.00	85	70-130
Bentazon	14.2	2.0	ug/l	16.0	88	70-130
Dalapon	6.39	0.40	ug/l	8.00	80	70-130
DCPA	3.45	0.10	ug/l	4.00	86	70-130
Dicamba	7.22	0.60	ug/l	8.00	90	70-130
Dichloroprop	7.66	0.30	ug/l	8.00	96	70-130
Dinoseb	3.70	0.40	ug/l	4.00	93	70-130
Pentachlorophenol	3.42	0.20	ug/l	4.00	86	70-130
Picloram	3.71	0.60	ug/l	4.00	93	70-130

Surrogate(s)

2,4-DCAA	9.95	ug/l	10.0	99	70-130
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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: W6K1220 - EPA 515.3 (Continued)										
Matrix Spike (W6K1220-MS1)			Source: 6K21046-01		Prepared: 11/22/16 Analyzed: 12/03/16					
2,4,5-T	3.46	0.20	ug/l	4.00	ND	86	70-130			
2,4,5-TP (Silvex)	3.65	0.20	ug/l	4.00	ND	91	70-130			
2,4-D	8.55	0.40	ug/l	8.00	ND	107	70-130			
2,4-DB	13.8	2.0	ug/l	16.0	ND	86	70-130			
3,5-Dichlorobenzoic acid	7.78	1.0	ug/l	8.00	ND	97	70-130			
Acifluorfen	3.83	0.40	ug/l	4.00	ND	96	70-130			
Bentazon	16.3	2.0	ug/l	16.0	ND	102	70-130			
Dalapon	6.01	0.40	ug/l	8.00	ND	75	70-130			
DCPA	3.42	0.10	ug/l	4.00	ND	85	70-130			
Dicamba	7.47	0.60	ug/l	8.00	ND	93	70-130			
Dichloroprop	8.34	0.30	ug/l	8.00	ND	104	70-130			
Dinoseb	3.83	0.40	ug/l	4.00	ND	96	70-130			
Pentachlorophenol	3.54	0.20	ug/l	4.00	0.122	85	70-130			
Picloram	3.95	0.60	ug/l	4.00	ND	99	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		10.5	ug/l	10.0		105	70-130			
Matrix Spike (W6K1220-MS2)			Source: 6K21076-01		Prepared: 11/22/16 Analyzed: 12/03/16					
2,4,5-T	3.53	0.20	ug/l	4.00	ND	88	70-130			
2,4,5-TP (Silvex)	3.69	0.20	ug/l	4.00	ND	92	70-130			
2,4-D	8.72	0.40	ug/l	8.00	ND	109	70-130			
2,4-DB	18.1	2.0	ug/l	16.0	ND	113	70-130			
3,5-Dichlorobenzoic acid	8.23	1.0	ug/l	8.00	ND	103	70-130			
Acifluorfen	4.18	0.40	ug/l	4.00	ND	104	70-130			
Bentazon	17.1	2.0	ug/l	16.0	ND	107	70-130			
Dalapon	6.23	0.40	ug/l	8.00	ND	78	70-130			
DCPA	3.62	0.10	ug/l	4.00	ND	91	70-130			
Dicamba	7.80	0.60	ug/l	8.00	ND	97	70-130			
Dichloroprop	7.93	0.30	ug/l	8.00	ND	99	70-130			
Dinoseb	4.22	0.40	ug/l	4.00	ND	105	70-130			
Pentachlorophenol	4.94	0.20	ug/l	4.00	1.29	91	70-130			
Picloram	4.08	0.60	ug/l	4.00	ND	102	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		10.9	ug/l	10.0		109	70-130			



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(Continued)

Chlorinated Herbicides (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1220 - EPA 515.3 (Continued)										
Matrix Spike Dup (W6K1220-MSD1)	Source: 6K21046-01			Prepared: 11/22/16 Analyzed: 12/03/16						
2,4,5-T	3.66	0.20	ug/l	4.00	ND	91	70-130	6	30	
2,4,5-TP (Silvex)	3.62	0.20	ug/l	4.00	ND	90	70-130	1	30	
2,4-D	7.83	0.40	ug/l	8.00	ND	98	70-130	9	30	
2,4-DB	14.9	2.0	ug/l	16.0	ND	93	70-130	8	30	
3,5-Dichlorobenzoic acid	7.82	1.0	ug/l	8.00	ND	98	70-130	0.5	30	
Acifluorfen	4.03	0.40	ug/l	4.00	ND	101	70-130	5	30	
Bentazon	16.6	2.0	ug/l	16.0	ND	104	70-130	2	30	
Dalapon	6.25	0.40	ug/l	8.00	ND	78	70-130	4	30	
DCPA	3.53	0.10	ug/l	4.00	ND	88	70-130	3	30	
Dicamba	7.49	0.60	ug/l	8.00	ND	94	70-130	0.2	30	
Dichloroprop	8.41	0.30	ug/l	8.00	ND	105	70-130	0.9	30	
Dinoseb	3.86	0.40	ug/l	4.00	ND	96	70-130	0.7	30	
Pentachlorophenol	3.55	0.20	ug/l	4.00	0.122	86	70-130	0.4	30	
Picloram	3.81	0.60	ug/l	4.00	ND	95	70-130	4	30	
<i>Surrogate(s)</i>										
2,4-DCAA		10.7	ug/l	10.0		107	70-130			
Matrix Spike Dup (W6K1220-MSD2)	Source: 6K21076-01			Prepared: 11/22/16 Analyzed: 12/03/16						
2,4,5-T	3.48	0.20	ug/l	4.00	ND	87	70-130	2	30	
2,4,5-TP (Silvex)	3.58	0.20	ug/l	4.00	ND	90	70-130	3	30	
2,4-D	8.80	0.40	ug/l	8.00	ND	110	70-130	1	30	
2,4-DB	18.8	2.0	ug/l	16.0	ND	118	70-130	4	30	
3,5-Dichlorobenzoic acid	8.08	1.0	ug/l	8.00	ND	101	70-130	2	30	
Acifluorfen	4.01	0.40	ug/l	4.00	ND	100	70-130	4	30	
Bentazon	16.6	2.0	ug/l	16.0	ND	104	70-130	3	30	
Dalapon	6.68	0.40	ug/l	8.00	ND	83	70-130	7	30	
DCPA	3.51	0.10	ug/l	4.00	ND	88	70-130	3	30	
Dicamba	7.46	0.60	ug/l	8.00	ND	93	70-130	4	30	
Dichloroprop	8.82	0.30	ug/l	8.00	ND	110	70-130	11	30	
Dinoseb	4.18	0.40	ug/l	4.00	ND	104	70-130	1	30	
Pentachlorophenol	4.84	0.20	ug/l	4.00	1.29	89	70-130	2	30	
Picloram	4.24	0.60	ug/l	4.00	ND	106	70-130	4	30	
<i>Surrogate(s)</i>										
2,4-DCAA		10.3	ug/l	10.0		103	70-130			



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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: W6K1312 - EPA 608										
Blank (W6K1312-BLK1)				Prepared: 11/23/16 Analyzed: 12/22/16						
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							
Oxychlordane	ND	5.0	ng/l							
Perthane	ND	5.0	ng/l							
Toxaphene	ND	500	ng/l							
trans-Nonachlor	ND	5.0	ng/l							
Surrogate(s)										

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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: W6K1312 - EPA 608 (Continued)

Blank (W6K1312-BLK1)

Prepared: 11/23/16 Analyzed: 12/22/16

Surrogate(s)

Decachlorobiphenyl	86.9	ng/l	100	87	0.1-118
Tetrachloro-meta-xylene	80.5	ng/l	100	81	12-117

Blank (W6K1312-BLK2)

Prepared: 11/23/16 Analyzed: 12/23/16

2,4'-DDD	ND	5.0	ng/l	C-3620
2,4'-DDE	ND	5.0	ng/l	C-3620
2,4'-DDT	ND	5.0	ng/l	C-3620
4,4'-DDD	ND	5.0	ng/l	C-3620
4,4'-DDE	ND	5.0	ng/l	C-3620
4,4'-DDT	ND	5.0	ng/l	C-3620
Aldrin	ND	5.0	ng/l	C-3620
alpha-BHC	ND	5.0	ng/l	C-3620
alpha-Chlordane	ND	5.0	ng/l	C-3620
Aroclor 1016	ND	100	ng/l	C-3620
Aroclor 1221	ND	100	ng/l	C-3620
Aroclor 1232	ND	100	ng/l	C-3620
Aroclor 1242	ND	100	ng/l	C-3620
Aroclor 1248	ND	100	ng/l	C-3620
Aroclor 1254	ND	100	ng/l	C-3620
Aroclor 1260	ND	100	ng/l	C-3620
beta-BHC	ND	5.0	ng/l	C-3620
Chlordane (tech)	ND	100	ng/l	C-3620
cis-Nonachlor	ND	5.0	ng/l	C-3620
delta-BHC	ND	5.0	ng/l	C-3620
Dieldrin	ND	5.0	ng/l	C-3620
Endosulfan I	ND	5.0	ng/l	C-3620
Endosulfan II	ND	5.0	ng/l	C-3620
Endosulfan sulfate	ND	5.0	ng/l	C-3620
Endrin	ND	5.0	ng/l	C-3620
Endrin aldehyde	ND	5.0	ng/l	C-3620
gamma-BHC (Lindane)	ND	5.0	ng/l	C-3620
gamma-Chlordane	ND	5.0	ng/l	C-3620
Heptachlor	ND	5.0	ng/l	C-3620
Heptachlor epoxide	ND	5.0	ng/l	C-3620
Methoxychlor	ND	5.0	ng/l	C-3620
Mirex	ND	5.0	ng/l	C-3620
Oxychlordane	ND	5.0	ng/l	C-3620



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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: W6K1312 - EPA 608 (Continued)										
Blank (W6K1312-BLK2)				Prepared: 11/23/16 Analyzed: 12/23/16						
Perthane	ND	5.0	ng/l							C-3620
Toxaphene	ND	500	ng/l							C-3620
trans-Nonachlor	ND	5.0	ng/l							C-3620
<i>Surrogate(s)</i>										
Decachlorobiphenyl		78.7	ng/l	100		79	0.1-118			C-3620
Tetrachloro-meta-xylene		73.3	ng/l	100		73	12-117			C-3620
LCS (W6K1312-BS1)				Prepared: 11/23/16 Analyzed: 12/22/16						
4,4'-DDD	81.4	5.0	ng/l	100		81	42-133			
4,4'-DDE	94.8	5.0	ng/l	100		95	33-126			
4,4'-DDT	57.2	5.0	ng/l	100		57	35-147			
Aldrin	90.9	5.0	ng/l	100		91	18-117			
alpha-BHC	85.8	5.0	ng/l	100		86	47-119			
beta-BHC	87.1	5.0	ng/l	100		87	53-123			
delta-BHC	92.0	5.0	ng/l	100		92	51-123			
Dieldrin	87.6	5.0	ng/l	100		88	48-123			
Endosulfan I	83.5	5.0	ng/l	100		83	14-131			
Endosulfan II	80.3	5.0	ng/l	100		80	40-121			
Endosulfan sulfate	83.0	5.0	ng/l	100		83	44-140			
Endrin	108	5.0	ng/l	100		108	40-143			
Endrin aldehyde	65.9	5.0	ng/l	100		66	18-136			
gamma-BHC (Lindane)	94.5	5.0	ng/l	100		94	49-117			
Heptachlor	95.0	5.0	ng/l	100		95	31-130			
Heptachlor epoxide	78.8	5.0	ng/l	100		79	49-122			
<i>Surrogate(s)</i>										
Decachlorobiphenyl		93.1	ng/l	100		93	0.1-118			
Tetrachloro-meta-xylene		81.9	ng/l	100		82	12-117			
LCS (W6K1312-BS2)				Prepared: 11/23/16 Analyzed: 12/23/16						
4,4'-DDD	83.1	5.0	ng/l	100		83	42-133			C-3620
4,4'-DDE	86.0	5.0	ng/l	100		86	33-126			C-3620
4,4'-DDT	133	5.0	ng/l	100		133	35-147			C-3620
Aldrin	86.5	5.0	ng/l	100		86	18-117			C-3620
alpha-BHC	82.3	5.0	ng/l	100		82	47-119			C-3620
beta-BHC	86.2	5.0	ng/l	100		86	53-123			C-3620
delta-BHC	79.0	5.0	ng/l	100		79	51-123			C-3620
Dieldrin	87.6	5.0	ng/l	100		88	48-123			C-3620
Endosulfan I	73.3	5.0	ng/l	100		73	14-131			C-3620
Endosulfan II	76.3	5.0	ng/l	100		76	40-121			C-3620
Endosulfan sulfate	83.6	5.0	ng/l	100		84	44-140			C-3620

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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: W6K1312 - EPA 608 (Continued)										
LCS (W6K1312-BS2)				Prepared: 11/23/16 Analyzed: 12/23/16						
Endrin	98.4	5.0	ng/l	100		98	40-143			C-3620
Endrin aldehyde	68.2	5.0	ng/l	100		68	18-136			C-3620
gamma-BHC (Lindane)	84.2	5.0	ng/l	100		84	49-117			C-3620
Heptachlor	93.3	5.0	ng/l	100		93	31-130			C-3620
Heptachlor epoxide	89.2	5.0	ng/l	100		89	49-122			C-3620
<i>Surrogate(s)</i>										
Decachlorobiphenyl		77.6	ng/l	100		78	0.1-118			C-3620
Tetrachloro-meta-xylene		72.1	ng/l	100		72	12-117			C-3620
LCS Dup (W6K1312-BSD2)				Prepared: 11/23/16 Analyzed: 12/23/16						
4,4'-DDD	103	5.0	ng/l	100		103	42-133	21	30	C-3620
4,4'-DDE	107	5.0	ng/l	100		107	33-126	22	30	C-3620
4,4'-DDT	157	5.0	ng/l	100		157	35-147	16	30	C-3620, Q-08
Aldrin	105	5.0	ng/l	100		105	18-117	20	30	C-3620
alpha-BHC	99.4	5.0	ng/l	100		99	47-119	19	30	C-3620
beta-BHC	104	5.0	ng/l	100		104	53-123	19	30	C-3620
delta-BHC	92.6	5.0	ng/l	100		93	51-123	16	30	C-3620
Dieldrin	108	5.0	ng/l	100		108	48-123	21	30	C-3620
Endosulfan I	89.8	5.0	ng/l	100		90	14-131	20	30	C-3620
Endosulfan II	94.4	5.0	ng/l	100		94	40-121	21	30	C-3620
Endosulfan sulfate	105	5.0	ng/l	100		105	44-140	22	30	C-3620
Endrin	121	5.0	ng/l	100		121	40-143	21	30	C-3620
Endrin aldehyde	76.7	5.0	ng/l	100		77	18-136	12	30	C-3620
gamma-BHC (Lindane)	102	5.0	ng/l	100		102	49-117	19	30	C-3620
Heptachlor	114	5.0	ng/l	100		114	31-130	20	30	C-3620
Heptachlor epoxide	109	5.0	ng/l	100		109	49-122	20	30	C-3620
<i>Surrogate(s)</i>										
Decachlorobiphenyl		99.0	ng/l	100		99	0.1-118			C-3620
Tetrachloro-meta-xylene		86.7	ng/l	100		87	12-117			C-3620



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(Continued)

Chlorinated Pesticides and/or PCBs (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6K1312 - EPA 608 (Continued)										
Matrix Spike (W6K1312-MS1)		Source: 6K21023-05		Prepared: 11/23/16 Analyzed: 12/22/16						
4,4'-DDD	62.2	10	ng/l	111	ND	56	23-124			M-04
4,4'-DDE	61.0	10	ng/l	111	ND	55	30-114			M-04
4,4'-DDT	27.6	10	ng/l	111	ND	25	11-151			M-04
Aldrin	69.6	10	ng/l	111	ND	63	18-110			M-04
alpha-BHC	62.9	10	ng/l	111	ND	57	43-114			M-04
beta-BHC	60.1	10	ng/l	111	ND	54	24-135			M-04
delta-BHC	54.9	10	ng/l	111	ND	49	37-122			M-04
Dieldrin	75.1	10	ng/l	111	ND	68	27-132			M-04
Endosulfan I	63.3	10	ng/l	111	ND	57	0.1-140			M-04
Endosulfan II	56.1	10	ng/l	111	ND	51	17-122			M-04
Endosulfan sulfate	69.2	10	ng/l	111	ND	62	37-131			M-04
Endrin	80.2	10	ng/l	111	ND	72	42-144			M-04
Endrin aldehyde	44.4	10	ng/l	111	ND	40	11-113			M-04
gamma-BHC (Lindane)	74.6	10	ng/l	111	ND	67	33-112			M-04
Heptachlor	71.1	10	ng/l	111	ND	64	28-131			M-04
Heptachlor epoxide	62.8	10	ng/l	111	ND	57	36-117			M-04
<i>Surrogate(s)</i>										
Decachlorobiphenyl		60.0	ng/l	111		54	0.1-118			M-04
Tetrachloro-meta-xylene		55.6	ng/l	111		50	12-117			M-04
Matrix Spike Dup (W6K1312-MSD1)		Source: 6K21023-05		Prepared: 11/23/16 Analyzed: 12/22/16						
4,4'-DDD	55.8	10	ng/l	111	ND	50	23-124	11	30	M-04
4,4'-DDE	52.7	10	ng/l	111	ND	47	30-114	14	30	M-04
4,4'-DDT	27.4	10	ng/l	111	ND	25	11-151	0.8	30	M-04
Aldrin	60.7	10	ng/l	111	ND	55	18-110	14	30	M-04
alpha-BHC	62.2	10	ng/l	111	ND	56	43-114	1	30	M-04
beta-BHC	52.2	10	ng/l	111	ND	47	24-135	14	30	M-04
delta-BHC	49.7	10	ng/l	111	ND	45	37-122	10	30	M-04
Dieldrin	66.2	10	ng/l	111	ND	60	27-132	13	30	M-04
Endosulfan I	52.3	10	ng/l	111	ND	47	0.1-140	19	30	M-04
Endosulfan II	50.4	10	ng/l	111	ND	45	17-122	11	30	M-04
Endosulfan sulfate	60.4	10	ng/l	111	ND	54	37-131	14	30	M-04
Endrin	70.7	10	ng/l	111	ND	64	42-144	13	30	M-04
Endrin aldehyde	36.5	10	ng/l	111	ND	33	11-113	20	30	M-04
gamma-BHC (Lindane)	66.6	10	ng/l	111	ND	60	33-112	11	30	M-04
Heptachlor	64.3	10	ng/l	111	ND	58	28-131	10	30	M-04
Heptachlor epoxide	58.1	10	ng/l	111	ND	52	36-117	8	30	M-04
<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	%REC Limits	RPD	RPD Limit	Qualifier
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Batch: W6K1312 - EPA 608 (Continued)

Matrix Spike Dup (W6K1312-MSD1)

Source: 6K21023-05

Prepared: 11/23/16 Analyzed: 12/22/16

<i>Surrogate(s)</i>										
<i>Decachlorobiphenyl</i>		57.5	ng/l	111		52	0.1-118			M-04
<i>Tetrachloro-meta-xylene</i>		50.1	ng/l	111		45	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	Limits	RPD	RPD Limit	Qualifier
Batch: W6K1176 - EPA 351.2										
Blank (W6K1176-BLK1)				Prepared: 11/21/16 Analyzed: 11/23/16						
TKN	ND	0.10	mg/l							
Blank (W6K1176-BLK2)				Prepared: 11/21/16 Analyzed: 11/23/16						
TKN	ND	0.10	mg/l							
LCS (W6K1176-BS1)				Prepared: 11/21/16 Analyzed: 11/23/16						
TKN	0.974	0.10	mg/l	1.00		97	90-110			
LCS (W6K1176-BS2)				Prepared: 11/21/16 Analyzed: 11/23/16						
TKN	0.949	0.10	mg/l	1.00		95	90-110			
Matrix Spike (W6K1176-MS1)				Source: 6K14055-06 Prepared: 11/21/16 Analyzed: 11/23/16						
TKN	1.61	0.10	mg/l	1.00	0.622	99	90-110			
Matrix Spike (W6K1176-MS2)				Source: 6K14055-07 Prepared: 11/21/16 Analyzed: 11/23/16						
TKN	2.67	0.10	mg/l	1.00	1.65	102	90-110			
Matrix Spike Dup (W6K1176-MSD1)				Source: 6K14055-06 Prepared: 11/21/16 Analyzed: 11/23/16						
TKN	1.64	0.10	mg/l	1.00	0.622	102	90-110	2	10	
Matrix Spike Dup (W6K1176-MSD2)				Source: 6K14055-07 Prepared: 11/21/16 Analyzed: 11/23/16						
TKN	2.69	0.10	mg/l	1.00	1.65	104	90-110	0.8	10	
Batch: W6K1179 - SM 5540C										
Blank (W6K1179-BLK1)				Prepared & Analyzed: 11/21/16						
MBAS	ND	0.050	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: W6K1179 - SM 5540C (Continued)										
LCS (W6K1179-BS1)				Prepared & Analyzed: 11/21/16						
MBAS	0.202	0.050	mg/l	0.200		101	82-115			
Matrix Spike (W6K1179-MS1)				Source: 6K21023-12 Prepared & Analyzed: 11/21/16						
MBAS	0.203	0.050	mg/l	0.200	ND	101	74-123			
Matrix Spike Dup (W6K1179-MSD1)				Source: 6K21023-12 Prepared & Analyzed: 11/21/16						
MBAS	0.201	0.050	mg/l	0.200	ND	100	74-123	1	20	
Batch: W6K1228 - EPA 180.1										
Blank (W6K1228-BLK1)				Prepared & Analyzed: 11/22/16						
Turbidity	ND	0.10	NTU							
LCS (W6K1228-BS1)				Prepared & Analyzed: 11/22/16						
Turbidity	7.38	0.10	NTU	7.36		100	90-110			
Duplicate (W6K1228-DUP1)				Source: 6K21031-04 Prepared & Analyzed: 11/22/16						
Turbidity	ND	0.10	NTU		ND				10	
Duplicate (W6K1228-DUP2)				Source: 6K21046-01 Prepared & Analyzed: 11/22/16						
Turbidity	8.51	0.10	NTU		9.06			6	10	
Batch: W6K1239 - SM 5210B										
LCS (W6K1239-BS1)				Prepared: 11/22/16 Analyzed: 11/27/16						
Biochemical Oxygen Demand	185	2.0	mg/l	198		93	85-115			



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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: W6K1239 - SM 5210B (Continued)										
Duplicate (W6K1239-DUP1)	Source: 6K21076-01			Prepared: 11/22/16 Analyzed: 11/27/16						
Biochemical Oxygen Demand	7.62	2.0	mg/l		7.71			1	20	
Batch: W6K1241 - SM 2540D										
Blank (W6K1241-BLK1)	Prepared & Analyzed: 11/22/16									
Total Suspended Solids	ND	5	mg/l							
LCS (W6K1241-BS1)	Prepared & Analyzed: 11/22/16									
Total Suspended Solids	54.0	5	mg/l		53.1	102	90-110			
Duplicate (W6K1241-DUP1)	Source: 6K21046-01			Prepared & Analyzed: 11/22/16						
Total Suspended Solids	12.0	5	mg/l		13.0			8	20	
Duplicate (W6K1241-DUP2)	Source: 6K21118-11			Prepared & Analyzed: 11/22/16						
Total Suspended Solids	ND	5	mg/l		ND				20	
Batch: W6K1242 - EPA 160.4										
Blank (W6K1242-BLK1)	Prepared & Analyzed: 11/22/16									
Volatile Suspended Solids	ND	5.0	mg/l							
Duplicate (W6K1242-DUP1)	Source: 6K21046-01			Prepared & Analyzed: 11/22/16						
Volatile Suspended Solids	6.0	5.0	mg/l		6.0			0	15	
Duplicate (W6K1242-DUP2)	Source: 6K21118-11			Prepared & Analyzed: 11/22/16						
Volatile Suspended Solids	ND	5.0	mg/l		ND				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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1289 - SM 2540C										
Blank (W6K1289-BLK1)				Prepared: 11/22/16 Analyzed: 11/23/16						
Total Dissolved Solids	ND	10	mg/l							
LCS (W6K1289-BS1)				Prepared: 11/22/16 Analyzed: 11/23/16						
Total Dissolved Solids	832	10	mg/l	824		101	96-102			
Duplicate (W6K1289-DUP1)				Source: 6K21105-04 Prepared: 11/22/16 Analyzed: 11/23/16						
Total Dissolved Solids	3280	10	mg/l		3060			7	10	
Duplicate (W6K1289-DUP2)				Source: 6K21118-05 Prepared: 11/22/16 Analyzed: 11/23/16						
Total Dissolved Solids	3750	10	mg/l		3860			3	10	
Batch: W6K1313 - EPA 420.4										
Blank (W6K1313-BLK1)				Prepared: 11/23/16 Analyzed: 11/28/16						
Phenolics	ND	0.010	mg/l							
LCS (W6K1313-BS1)				Prepared: 11/23/16 Analyzed: 11/28/16						
Phenolics	0.0986	0.010	mg/l	0.100		99	90-110			
Matrix Spike (W6K1313-MS1)				Source: 6K21046-01 Prepared: 11/23/16 Analyzed: 11/28/16						
Phenolics	0.241	0.010	mg/l	0.250	0.00713	93	90-110			
Matrix Spike Dup (W6K1313-MSD1)				Source: 6K21046-01 Prepared: 11/23/16 Analyzed: 11/28/16						
Phenolics	0.242	0.010	mg/l	0.250	0.00713	94	90-110	0.5	20	
Batch: W6K1345 - SM 2510B										
Blank (W6K1345-BLK1)				Prepared & Analyzed: 11/23/16						
Specific Conductance (EC)	ND	2.0	umhos/cm							



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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1345 - SM 2510B (Continued)										
LCS (W6K1345-BS1)				Prepared & Analyzed: 11/23/16						
Specific Conductance (EC)	199	2.0	umhos/cm	200		100	95-105			
Duplicate (W6K1345-DUP1)				Source: 6K21046-01 Prepared & Analyzed: 11/23/16						
Specific Conductance (EC)	104	2.0	umhos/cm		105			0.3	5	
Batch: W6K1352 - EPA 1664A										
Blank (W6K1352-BLK1)				Prepared: 11/23/16 Analyzed: 12/01/16						
Oil & Grease (HEM)	ND	5.0	mg/l							
LCS (W6K1352-BS1)				Prepared: 11/23/16 Analyzed: 12/01/16						
Oil & Grease (HEM)	19.8	5.0	mg/l	20.0		99	78-114			
LCS (W6K1352-BS2)				Prepared: 11/23/16 Analyzed: 12/01/16						
Oil & Grease (HEM)	4.80	5.0	mg/l	5.00		96	78-114			
LCS Dup (W6K1352-BSD1)				Prepared: 11/23/16 Analyzed: 12/01/16						
Oil & Grease (HEM)	20.1	5.0	mg/l	20.0		100	78-114	2	18	
Matrix Spike (W6K1352-MS1)				Source: 6K21127-02 Prepared: 11/23/16 Analyzed: 12/01/16						
Oil & Grease (HEM)	21.3	5.0	mg/l	22.9	1.40	87	78-114			
Batch: W6K1496 - EPA 350.1										
Blank (W6K1496-BLK1)				Prepared: 11/28/16 Analyzed: 11/29/16						
Ammonia as N	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	Limit	RPD	Limit	Qualifier
Batch: W6K1496 - EPA 350.1 (Continued)										
Blank (W6K1496-BLK2)				Prepared: 11/28/16 Analyzed: 11/29/16						
Ammonia as N	ND	0.10	mg/l							
LCS (W6K1496-BS1)				Prepared: 11/28/16 Analyzed: 11/29/16						
Ammonia as N	0.257	0.10	mg/l	0.250		103	90-110			
LCS (W6K1496-BS2)				Prepared: 11/28/16 Analyzed: 11/29/16						
Ammonia as N	0.260	0.10	mg/l	0.250		104	90-110			
Matrix Spike (W6K1496-MS1)				Source: 6K22057-15		Prepared: 11/28/16 Analyzed: 11/29/16				
Ammonia as N	0.384	0.10	mg/l	0.250	0.127	103	90-110			
Matrix Spike (W6K1496-MS2)				Source: 6K22057-17		Prepared: 11/28/16 Analyzed: 11/29/16				
Ammonia as N	0.261	0.10	mg/l	0.250	ND	105	90-110			
Matrix Spike Dup (W6K1496-MSD1)				Source: 6K22057-15		Prepared: 11/28/16 Analyzed: 11/29/16				
Ammonia as N	0.384	0.10	mg/l	0.250	0.127	103	90-110	0.1	15	
Matrix Spike Dup (W6K1496-MSD2)				Source: 6K22057-17		Prepared: 11/28/16 Analyzed: 11/29/16				
Ammonia as N	0.258	0.10	mg/l	0.250	ND	103	90-110	1	15	
Batch: W6K1603 - EPA 365.1										
Blank (W6K1603-BLK1)				Prepared: 11/29/16 Analyzed: 12/05/16						
Phosphorus as P, Total	ND	0.010	mg/l							
LCS (W6K1603-BS1)				Prepared: 11/29/16 Analyzed: 12/05/16						
Phosphorus as P, Total	0.0504	0.010	mg/l	0.0500		101	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: W6K1603 - EPA 365.1 (Continued)										
Matrix Spike (W6K1603-MS1)	Source: 6I28008-01			Prepared: 11/29/16 Analyzed: 12/05/16						
Phosphorus as P, Total	0.157	0.010	mg/l	0.0500	0.106	102	90-110			
Matrix Spike (W6K1603-MS2)	Source: 6I28008-12			Prepared: 11/29/16 Analyzed: 12/05/16						
Phosphorus as P, Total	0.0472	0.010	mg/l	0.0500	ND	94	90-110			
Matrix Spike Dup (W6K1603-MSD1)	Source: 6I28008-01			Prepared: 11/29/16 Analyzed: 12/05/16						
Phosphorus as P, Total	0.156	0.010	mg/l	0.0500	0.106	100	90-110	0.6	20	
Matrix Spike Dup (W6K1603-MSD2)	Source: 6I28008-12			Prepared: 11/29/16 Analyzed: 12/05/16						
Phosphorus as P, Total	0.0478	0.010	mg/l	0.0500	ND	96	90-110	1	20	
Batch: W6K1627 - SM 5310C										
Blank (W6K1627-BLK1)	Prepared & Analyzed: 11/30/16									
Total Organic Carbon (TOC)	ND	0.30	mg/l							
Blank (W6K1627-BLK2)	Prepared & Analyzed: 11/30/16									
Total Organic Carbon (TOC)	ND	0.30	mg/l							
LCS (W6K1627-BS1)	Prepared & Analyzed: 11/30/16									
Total Organic Carbon (TOC)	4.93	0.30	mg/l	5.00		99	85-115			
LCS (W6K1627-BS2)	Prepared & Analyzed: 11/30/16									
Total Organic Carbon (TOC)	9.82	0.30	mg/l	10.0		98	85-115			
Matrix Spike (W6K1627-MS1)	Source: 6K21093-02			Prepared & Analyzed: 11/30/16						
Total Organic Carbon (TOC)	8.07	0.30	mg/l	5.00	3.49	92	80-116			

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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: W6K1627 - SM 5310C (Continued)										
Matrix Spike Dup (W6K1627-MSD1)				Source: 6K21093-02		Prepared & Analyzed: 11/30/16				
Total Organic Carbon (TOC)	8.55	0.30	mg/l	5.00	3.49	101	80-116	6	20	
Batch: W6K1653 - EPA 410.4										
Blank (W6K1653-BLK1)				Prepared: 11/30/16 Analyzed: 12/02/16						
Chemical Oxygen Demand	ND	5.0	mg/l							
LCS (W6K1653-BS1)				Prepared: 11/30/16 Analyzed: 12/02/16						
Chemical Oxygen Demand	1030	5.0	mg/l	1000		103	90-110			
Duplicate (W6K1653-DUP1)				Source: 6K22102-01		Prepared: 11/30/16 Analyzed: 12/02/16				
Chemical Oxygen Demand	1610	20	mg/l		1600			0.6	15	
Matrix Spike (W6K1653-MS1)				Source: 6K22058-01		Prepared: 11/30/16 Analyzed: 12/02/16				
Chemical Oxygen Demand	2610	10	mg/l	2000	661	98	90-110			
Matrix Spike (W6K1653-MS2)				Source: 6K22058-02		Prepared: 11/30/16 Analyzed: 12/02/16				
Chemical Oxygen Demand	2240	10	mg/l	2000	287	98	90-110			
Matrix Spike Dup (W6K1653-MSD1)				Source: 6K22058-01		Prepared: 11/30/16 Analyzed: 12/02/16				
Chemical Oxygen Demand	2600	10	mg/l	2000	661	97	90-110	0.4	15	
Matrix Spike Dup (W6K1653-MSD2)				Source: 6K22058-02		Prepared: 11/30/16 Analyzed: 12/02/16				
Chemical Oxygen Demand	2270	10	mg/l	2000	287	99	90-110	1	15	
Batch: W6K1654 - SM 2320B										
Blank (W6K1654-BLK1)				Prepared & Analyzed: 11/30/16						
Alkalinity as CaCO ₃	ND	2.0	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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1654 - SM 2320B (Continued)										
LCS (W6K1654-BS1)				Prepared & Analyzed: 11/30/16						
Alkalinity as CaCO ₃	257	2.0	mg/l	250		103	94-108			
Duplicate (W6K1654-DUP1)				Source: 6K21001-01 Prepared & Analyzed: 11/30/16						
Alkalinity as CaCO ₃	40.1	2.0	mg/l		39.1			2	15	
Batch: W6K1700 - ASTM D7511										
Blank (W6K1700-BLK1)				Prepared: 11/30/16 Analyzed: 12/02/16						
Cyanide, Total	ND	2.0	ug/l							
LCS (W6K1700-BS1)				Prepared: 11/30/16 Analyzed: 12/02/16						
Cyanide, Total	47.4	2.0	ug/l	50.0		95	84-116			
LCS Dup (W6K1700-BSD1)				Prepared: 11/30/16 Analyzed: 12/02/16						
Cyanide, Total	48.7	2.0	ug/l	50.0		97	84-116	3	12	
Matrix Spike (W6K1700-MS1)				Source: 6J20039-04RE1 Prepared: 11/30/16 Analyzed: 12/02/16						
Cyanide, Total	48.5	2.0	ug/l	50.0	ND	97	64-136			
Matrix Spike (W6K1700-MS2)				Source: 6J20039-05RE1 Prepared: 11/30/16 Analyzed: 12/02/16						
Cyanide, Total	49.6	2.0	ug/l	50.0	ND	99	64-136			
Matrix Spike Dup (W6K1700-MSD1)				Source: 6J20039-04RE1 Prepared: 11/30/16 Analyzed: 12/02/16						
Cyanide, Total	48.7	2.0	ug/l	50.0	ND	97	64-136	0.2	47	
Matrix Spike Dup (W6K1700-MSD2)				Source: 6J20039-05RE1 Prepared: 11/30/16 Analyzed: 12/02/16						
Cyanide, Total	49.1	2.0	ug/l	50.0	ND	98	64-136	1	47	



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Project Manager: Ed Suher

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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: W6L0920 - EPA 365.3										
Blank (W6L0920-BLK1)				Prepared: 12/01/16 Analyzed: 12/02/16						
Phosphorus, Dissolved	ND	0.010	mg/l							
LCS (W6L0920-BS1)				Prepared: 12/01/16 Analyzed: 12/02/16						
Phosphorus, Dissolved	0.206	0.010	mg/l	0.200		103	90-110			
Matrix Spike (W6L0920-MS1)				Source: 6K21046-01 Prepared: 12/01/16 Analyzed: 12/02/16						
Phosphorus, Dissolved	0.320	0.010	mg/l	0.200	0.116	102	90-110			
Matrix Spike Dup (W6L0920-MSD1)				Source: 6K21046-01 Prepared: 12/01/16 Analyzed: 12/02/16						
Phosphorus, Dissolved	0.321	0.010	mg/l	0.200	0.116	102	90-110	0.4	20	
Batch: W6L1321 - EPA 353.2										
Blank (W6L1321-BLK1)				Prepared & Analyzed: 12/08/16						
NO2+NO3 as N	ND	100	ug/l							
LCS (W6L1321-BS1)				Prepared & Analyzed: 12/08/16						
NO2+NO3 as N	1040	100	ug/l	1000		104	90-110			
Matrix Spike (W6L1321-MS1)				Source: 6L07059-02 Prepared & Analyzed: 12/08/16						
NO2+NO3 as N	1910	100	ug/l	2000	ND	96	90-110			
Matrix Spike (W6L1321-MS2)				Source: 6L08037-01 Prepared & Analyzed: 12/08/16						
NO2+NO3 as N	4960	100	ug/l	2000	2990	99	90-110			
Matrix Spike Dup (W6L1321-MSD1)				Source: 6L07059-02 Prepared & Analyzed: 12/08/16						
NO2+NO3 as N	1960	100	ug/l	2000	ND	98	90-110	3	20	



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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	%REC Limits	RPD	RPD Limit	Qualifier
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Batch: W6L1321 - EPA 353.2 (Continued)

Matrix Spike Dup (W6L1321-MSD2)

Source: 6L08037-01

Prepared & Analyzed: 12/08/16

NO2+NO3 as N	4960	100	ug/l	2000	2990	98	90-110	0.1	20	
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Quality Control Results

(Continued)

Glyphosate by EPA 547

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6K1430 - EPA 547										
Blank (W6K1430-BLK1)				Prepared & Analyzed: 11/28/16						
Glyphosate	ND	5.0	ug/l							
LCS (W6K1430-BS1)				Prepared & Analyzed: 11/28/16						
Glyphosate	22.2	5.0	ug/l	25.0		89	70-130			
Matrix Spike (W6K1430-MS1)				Prepared & Analyzed: 11/28/16						
Glyphosate	22.9	5.0	ug/l	25.0	ND	91	41-149			
Matrix Spike (W6K1430-MS2)				Prepared & Analyzed: 11/28/16						
Glyphosate	21.9	5.0	ug/l	25.0	ND	88	41-149			
Matrix Spike Dup (W6K1430-MSD1)				Prepared & Analyzed: 11/28/16						
Glyphosate	21.7	5.0	ug/l	25.0	ND	87	41-149	5	30	
Matrix Spike Dup (W6K1430-MSD2)				Prepared & Analyzed: 11/28/16						
Glyphosate	22.2	5.0	ug/l	25.0	ND	89	41-149	1	30	



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Quality Control Results

(Continued)

Hexavalent Chromium by IC

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6L0976 - EPA 218.6										
Blank (W6L0976-BLK1)				Prepared & Analyzed: 12/02/16						
Chromium 6+	ND	0.020	ug/l							
LCS (W6L0976-BS1)				Prepared & Analyzed: 12/02/16						
Chromium 6+	4.98	0.020	ug/l	5.00		100	90-110			
Matrix Spike (W6L0976-MS1)				Prepared & Analyzed: 12/02/16						
Chromium 6+	5.21	0.020	ug/l	5.00	0.237	99	88-112			
Matrix Spike (W6L0976-MS2)				Prepared & Analyzed: 12/02/16						
Chromium 6+	5.45	0.020	ug/l	5.00	0.531	98	88-112			
Matrix Spike Dup (W6L0976-MSD1)				Prepared & Analyzed: 12/02/16						
Chromium 6+	5.31	0.020	ug/l	5.00	0.237	101	88-112	2	10	
Matrix Spike Dup (W6L0976-MSD2)				Prepared & Analyzed: 12/02/16						
Chromium 6+	5.27	0.020	ug/l	5.00	0.531	95	88-112	3	10	
Batch: W6L1017 - EPA 218.6										
Blank (W6L1017-BLK1)				Prepared & Analyzed: 12/03/16						
Chromium 6+, Dissolved	ND	0.020	ug/l							
LCS (W6L1017-BS1)				Prepared & Analyzed: 12/03/16						
Chromium 6+, Dissolved	4.79	0.020	ug/l	5.00		96	90-110			
Matrix Spike (W6L1017-MS1)				Prepared & Analyzed: 12/03/16						
Chromium 6+, Dissolved	5.35	0.020	ug/l	5.00	0.272	101	88-112			



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Quality Control Results

(Continued)

Hexavalent Chromium by IC (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Batch: W6L1017 - EPA 218.6 (Continued)

Matrix Spike Dup (W6L1017-MSD1)

Source: 6K21046-01

Prepared & Analyzed: 12/03/16

Chromium 6+, Dissolved	5.44	0.020	ug/l	5.00	0.272	103	88-112	2	10	
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Quality Control Results

(Continued)

Hydrocarbons by EPA 8015B

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
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Batch: W6K1375 - EPA 8015B

Blank (W6K1375-BLK1)

Prepared: 11/23/16 Analyzed: 12/01/16

Diesel Range Organics	ND	0.10	mg/l							
Oil Range Organics	ND	0.50	mg/l							
Surrogate(s)										
n-Tetracosane		0.256	mg/l	0.250		103	64-155			

LCS (W6K1375-BS1)

Prepared: 11/23/16 Analyzed: 12/01/16

Diesel Range Organics	0.496	0.10	mg/l	0.500		99	56-136			
Surrogate(s)										
n-Tetracosane		0.246	mg/l	0.250		98	64-155			

Matrix Spike (W6K1375-MS1)

Source: 6K21001-01

Prepared: 11/23/16 Analyzed: 12/01/16

Diesel Range Organics	0.991	0.10	mg/l	0.500	0.517	95	70-130			
Surrogate(s)										
n-Tetracosane		0.245	mg/l	0.250		98	64-155			

Matrix Spike Dup (W6K1375-MSD1)

Source: 6K21001-01

Prepared: 11/23/16 Analyzed: 12/01/16

Diesel Range Organics	0.804	0.10	mg/l	0.500	0.517	57	70-130	21	25	MS-05
Surrogate(s)										
n-Tetracosane		0.234	mg/l	0.250		93	64-155			

Batch: W6K1642 - EPA 8015B

Blank (W6K1642-BLK1)

Prepared & Analyzed: 11/30/16

Gasoline Range Organics	ND	0.10	mg/l							
Surrogate(s)										
4-Bromofluorobenzene		0.0550	mg/l	0.0500		110	72-124			

LCS (W6K1642-BS1)

Prepared & Analyzed: 11/30/16

Gasoline Range Organics	1.08	0.10	mg/l	1.00		108	75-123			
Surrogate(s)										
4-Bromofluorobenzene		0.0510	mg/l	0.0500		102	72-124			

LCS Dup (W6K1642-BSD1)

Prepared & Analyzed: 11/30/16

Gasoline Range Organics	1.09	0.10	mg/l	1.00		109	75-123	0.8	25	
Surrogate(s)										
4-Bromofluorobenzene		0.0530	mg/l	0.0500		106	72-124			

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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
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Batch: W6L0888 - EPA 200.8

Blank (W6L0888-BLK1)

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

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

LCS (W6L0888-BS1)

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

Aluminum, Dissolved	50.0	5.0	ug/l	50.0	100	85-115
Aluminum, Total	50.0	5.0	ug/l	50.0	100	85-115
Antimony, Dissolved	50.2	0.50	ug/l	50.0	101	85-115
Antimony, Total	50.2	0.50	ug/l	50.0	101	85-115
Arsenic, Dissolved	53.7	0.40	ug/l	50.0	107	85-115
Arsenic, Total	53.7	0.40	ug/l	50.0	107	85-115
Beryllium, Dissolved	51.3	0.10	ug/l	50.0	103	85-115
Beryllium, Total	51.3	0.10	ug/l	50.0	103	85-115
Cadmium, Dissolved	51.8	0.10	ug/l	50.0	104	85-115
Cadmium, Total	51.8	0.10	ug/l	50.0	104	85-115

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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
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Batch: W6L0888 - EPA 200.8 (Continued)

LCS (W6L0888-BS1)

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

Chromium, Dissolved	50.4	0.20	ug/l	50.0		101	85-115			
Chromium, Total	50.4	0.20	ug/l	50.0		101	85-115			
Copper, Dissolved	52.7	0.50	ug/l	50.0		105	85-115			
Copper, Total	52.7	0.50	ug/l	50.0		105	85-115			
Iron, Dissolved	1080	20	ug/l	1050		103	85-115			
Iron, Total	1080	20	ug/l	1050		103	85-115			
Lead, Dissolved	49.3	0.20	ug/l	50.0		99	85-115			
Lead, Total	49.3	0.20	ug/l	50.0		99	85-115			
Nickel, Dissolved	51.6	0.80	ug/l	50.0		103	85-115			
Nickel, Total	51.6	0.80	ug/l	50.0		103	85-115			
Selenium, Dissolved	55.0	0.40	ug/l	50.0		110	85-115			
Selenium, Total	55.0	0.40	ug/l	50.0		110	85-115			
Silver, Dissolved	49.5	0.20	ug/l	50.0		99	85-115			
Silver, Total	49.5	0.20	ug/l	50.0		99	85-115			
Thallium, Dissolved	46.5	0.20	ug/l	50.0		93	85-115			
Thallium, Total	46.5	0.20	ug/l	50.0		93	85-115			

Matrix Spike (W6L0888-MS1)

Source: 6K21046-01

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

Aluminum, Total	399	5.0	ug/l	50.0	336	127	70-130			
Antimony, Total	48.7	0.50	ug/l	50.0	1.12	95	70-130			
Arsenic, Total	55.3	0.40	ug/l	50.0	1.13	108	70-130			
Beryllium, Total	51.7	0.10	ug/l	50.0	ND	103	70-130			
Cadmium, Total	51.5	0.10	ug/l	50.0	0.0800	103	70-130			
Chromium, Total	51.3	0.20	ug/l	50.0	1.00	101	70-130			
Copper, Total	63.7	0.50	ug/l	50.0	11.8	104	70-130			
Iron, Total	1390	20	ug/l	1050	433	91	70-130			
Lead, Total	50.5	0.20	ug/l	50.0	2.20	97	70-130			
Nickel, Total	52.9	0.80	ug/l	50.0	1.81	102	70-130			
Selenium, Total	54.9	0.40	ug/l	50.0	0.160	110	70-130			
Silver, Total	48.4	0.20	ug/l	50.0	ND	97	70-130			
Thallium, Total	45.6	0.20	ug/l	50.0	ND	91	70-130			



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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
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Batch: W6L0888 - EPA 200.8 (Continued)

Matrix Spike (W6L0888-MS2)			Source: 6K21076-01		Prepared: 12/01/16 Analyzed: 12/06/16					
Aluminum, Total	637	5.0	ug/l	50.0	557	159	70-130			MS-02
Antimony, Total	48.8	0.50	ug/l	50.0	2.15	93	70-130			
Arsenic, Total	55.4	0.40	ug/l	50.0	1.47	108	70-130			
Beryllium, Total	51.1	0.10	ug/l	50.0	ND	102	70-130			
Cadmium, Total	51.1	0.10	ug/l	50.0	0.120	102	70-130			
Chromium, Total	51.2	0.20	ug/l	50.0	1.81	99	70-130			
Copper, Total	92.5	0.50	ug/l	50.0	40.3	104	70-130			
Iron, Total	1610	20	ug/l	1050	734	84	70-130			
Lead, Total	53.9	0.20	ug/l	50.0	5.38	97	70-130			
Nickel, Total	55.6	0.80	ug/l	50.0	5.30	101	70-130			
Selenium, Total	52.4	0.40	ug/l	50.0	0.210	104	70-130			
Silver, Total	48.0	0.20	ug/l	50.0	ND	96	70-130			
Thallium, Total	45.4	0.20	ug/l	50.0	ND	91	70-130			

Matrix Spike Dup (W6L0888-MSD1)			Source: 6K21046-01		Prepared: 12/01/16 Analyzed: 12/05/16					
Aluminum, Total	378	5.0	ug/l	50.0	336	85	70-130	5	30	
Antimony, Total	49.1	0.50	ug/l	50.0	1.12	96	70-130	0.7	30	
Arsenic, Total	54.9	0.40	ug/l	50.0	1.13	108	70-130	0.8	30	
Beryllium, Total	52.2	0.10	ug/l	50.0	ND	104	70-130	1	30	
Cadmium, Total	50.8	0.10	ug/l	50.0	0.0800	101	70-130	2	30	
Chromium, Total	50.6	0.20	ug/l	50.0	1.00	99	70-130	1	30	
Copper, Total	62.5	0.50	ug/l	50.0	11.8	101	70-130	2	30	
Iron, Total	1340	20	ug/l	1050	433	86	70-130	4	30	
Lead, Total	51.0	0.20	ug/l	50.0	2.20	98	70-130	1	30	
Nickel, Total	52.3	0.80	ug/l	50.0	1.81	101	70-130	1	30	
Selenium, Total	53.6	0.40	ug/l	50.0	0.160	107	70-130	2	30	
Silver, Total	48.4	0.20	ug/l	50.0	ND	97	70-130	0.08	30	
Thallium, Total	46.2	0.20	ug/l	50.0	ND	92	70-130	1	30	



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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: W6L0888 - EPA 200.8 (Continued)										
Matrix Spike Dup (W6L0888-MSD2)			Source: 6K21076-01		Prepared: 12/01/16 Analyzed: 12/06/16					
Aluminum, Total	672	5.0	ug/l	50.0	557	229	70-130	5	30	MS-02
Antimony, Total	50.0	0.50	ug/l	50.0	2.15	96	70-130	3	30	
Arsenic, Total	58.8	0.40	ug/l	50.0	1.47	115	70-130	6	30	
Beryllium, Total	52.2	0.10	ug/l	50.0	ND	105	70-130	2	30	
Cadmium, Total	54.2	0.10	ug/l	50.0	0.120	108	70-130	6	30	
Chromium, Total	55.2	0.20	ug/l	50.0	1.81	107	70-130	8	30	
Copper, Total	98.1	0.50	ug/l	50.0	40.3	116	70-130	6	30	
Iron, Total	1790	20	ug/l	1050	734	101	70-130	11	30	
Lead, Total	55.1	0.20	ug/l	50.0	5.38	99	70-130	2	30	
Nickel, Total	59.7	0.80	ug/l	50.0	5.30	109	70-130	7	30	
Selenium, Total	58.6	0.40	ug/l	50.0	0.210	117	70-130	11	30	
Silver, Total	49.6	0.20	ug/l	50.0	ND	99	70-130	3	30	
Thallium, Total	46.7	0.20	ug/l	50.0	ND	93	70-130	3	30	
Batch: W6L0911 - EPA 200.7										
Blank (W6L0911-BLK1)			Prepared: 12/01/16 Analyzed: 12/05/16							
Calcium, Total	ND	0.100	mg/l							
LCS (W6L0911-BS1)			Prepared: 12/01/16 Analyzed: 12/05/16							
Calcium, Total	47.3	0.100	mg/l	50.0		95	85-115			
Matrix Spike (W6L0911-MS1)			Prepared: 12/01/16 Analyzed: 12/05/16							
Calcium, Total	53.8	0.100	mg/l	50.0	7.98	92	70-130			
Matrix Spike Dup (W6L0911-MSD1)			Prepared: 12/01/16 Analyzed: 12/05/16							
Calcium, Total	53.4	0.100	mg/l	50.0	7.98	91	70-130	0.7	30	



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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: W6L1183 - EPA 200.8										
Blank (W6L1183-BLK1)				Prepared: 12/06/16 Analyzed: 12/09/16						
Zinc, Dissolved	ND	5.0	ug/l							
Zinc, Total	ND	5.0	ug/l							
LCS (W6L1183-BS1)				Prepared: 12/06/16 Analyzed: 12/09/16						
Zinc, Dissolved	50.4	5.0	ug/l	50.0		101	85-115			
Zinc, Total	50.4	5.0	ug/l	50.0		101	85-115			
Matrix Spike (W6L1183-MS1)				Source: 6K21088-01 Prepared: 12/06/16 Analyzed: 12/09/16						
Zinc, Total	378	5.0	ug/l	50.0	326	104	70-130			
Matrix Spike (W6L1183-MS2)				Source: 6K21088-03 Prepared: 12/06/16 Analyzed: 12/09/16						
Zinc, Total	152	5.0	ug/l	50.0	105	95	70-130			
Matrix Spike Dup (W6L1183-MSD1)				Source: 6K21088-01 Prepared: 12/06/16 Analyzed: 12/09/16						
Zinc, Total	367	5.0	ug/l	50.0	326	82	70-130	3	30	
Matrix Spike Dup (W6L1183-MSD2)				Source: 6K21088-03 Prepared: 12/06/16 Analyzed: 12/09/16						
Zinc, Total	154	5.0	ug/l	50.0	105	97	70-130	0.8	30	



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Quality Control Results

(Continued)

Mercury - Low Level by CVAFS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L0944 - EPA 1631E										
Blank (W6L0944-BLK1)				Prepared & Analyzed: 12/02/16						
Mercury, Dissolved	ND	0.50	ng/l							
Mercury, Total	ND	0.50	ng/l							
LCS (W6L0944-BS1)				Prepared & Analyzed: 12/02/16						
Mercury, Total	4.80	0.50	ng/l	5.00		96	85-115			
LCS Dup (W6L0944-BSD1)				Prepared & Analyzed: 12/02/16						
Mercury, Total	4.69	0.50	ng/l	5.00		94	85-115	2	20	
Matrix Spike (W6L0944-MS1)				Source: 6K21023-04						
Mercury, Total	16.9	0.50	ng/l	5.00	12.7	84	75-125			
Matrix Spike (W6L0944-MS2)				Source: 6K21023-08						
Mercury, Total	22.7	0.50	ng/l	5.00	18.8	78	75-125			
Matrix Spike Dup (W6L0944-MSD1)				Source: 6K21023-04						
Mercury, Total	16.9	0.50	ng/l	5.00	12.7	84	75-125	0	20	
Matrix Spike Dup (W6L0944-MSD2)				Source: 6K21023-08						
Mercury, Total	22.9	0.50	ng/l	5.00	18.8	82	75-125	0.9	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: W6K1411 - Enterolert										
Blank (W6K1411-BLK1)				Prepared: 11/21/16 Analyzed: 11/22/16						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W6K1411-BLK2)				Prepared: 11/21/16 Analyzed: 11/22/16						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W6K1411-BLK3)				Prepared: 11/22/16 Analyzed: 11/23/16						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W6K1411-BLK4)				Prepared: 11/23/16 Analyzed: 11/24/16						
Enterococcus	ND	1.0	MPN/100ml							
Batch: W6K1412 - SM 9221F										
Blank (W6K1412-BLK1)				Prepared: 11/21/16 Analyzed: 11/24/16						
E. coli	ND	2.0	MPN/100ml							
Fecal Coliform	ND	2.0	MPN/100ml							
Total Coliform	ND	2.0	MPN/100ml							
Blank (W6K1412-BLK2)				Prepared: 11/21/16 Analyzed: 11/24/16						
E. coli	ND	2.0	MPN/100ml							
Fecal Coliform	ND	2.0	MPN/100ml							
Total Coliform	ND	2.0	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	Limits	RPD	Limit	Qualifier
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Batch: W6K1547 - GC/MS/MS

Blank (W6K1547-BLK1)

Prepared: 11/29/16 Analyzed: 12/05/16

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	Limit	RPD	Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------	-----	-------	-----------

Batch: W6K1547 - GC/MS/MS (Continued)

Blank (W6K1547-BLK1)

Prepared: 11/29/16 Analyzed: 12/05/16

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	170	ng/l	250	68	49-146
Triphenyl phosphate	250	ng/l	250	100	30-213

LCS (W6K1547-BS1)

Prepared: 11/29/16 Analyzed: 12/05/16

PCB-101	63.7	10	ng/l	50.0	127	30-191
PCB-105	62.5	10	ng/l	50.0	125	33-158
PCB-114	59.1	10	ng/l	50.0	118	33-159
PCB-118	59.7	10	ng/l	50.0	119	28-154
PCB-123	59.7	10	ng/l	50.0	119	28-154
PCB-126	61.2	10	ng/l	50.0	122	32-154
PCB-128	53.9	10	ng/l	50.0	108	27-181
PCB-138	66.5	10	ng/l	50.0	133	27-181
PCB-153	63.2	10	ng/l	50.0	126	34-165
PCB-156	62.3	10	ng/l	50.0	125	25-166
PCB-157	59.1	10	ng/l	50.0	118	25-180
PCB-167	53.9	10	ng/l	50.0	108	27-181
PCB-169	64.2	10	ng/l	50.0	128	27-112
PCB-170	67.1	10	ng/l	50.0	134	20-192

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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	Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	--------	-----	-------	-----------

Batch: W6K1547 - GC/MS/MS (Continued)

LCS (W6K1547-BS1)

Prepared: 11/29/16 Analyzed: 12/05/16

PCB-18	57.2	10	ng/l	50.0		114	44-155			
PCB-180	59.7	10	ng/l	50.0		119	23-188			
PCB-187	64.9	10	ng/l	50.0		130	19-190			
PCB-189	59.2	10	ng/l	50.0		118	28-164			
PCB-195	69.4	10	ng/l	50.0		139	32-160			
PCB-206	64.0	10	ng/l	50.0		128	23-178			
PCB-209	54.2	10	ng/l	50.0		108	24-175			
PCB-28	64.2	10	ng/l	50.0		128	45-178			
PCB-44	61.6	10	ng/l	50.0		123	42-154			
PCB-52	56.4	10	ng/l	50.0		113	44-159			
PCB-66	64.3	10	ng/l	50.0		129	27-168			
PCB-77	80.3	10	ng/l	50.0		161	37-139			
PCB-8	58.5	10	ng/l	50.0		117	42-191			
PCB-81	57.1	10	ng/l	50.0		114	21-174			

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Surrogate(s)

1,3-Dimethyl-2-nitrobenzene		160	ng/l	250		64	49-146			
Triphenyl phosphate		180	ng/l	250		72	30-213			

Matrix Spike (W6K1547-MS1)

Source: 6K15087-01

Prepared: 11/29/16 Analyzed: 12/05/16

PCB-101	58.0	10	ng/l	50.0	ND	116	13-256			
PCB-105	41.0	10	ng/l	50.0	ND	82	28-250			
PCB-114	39.0	10	ng/l	50.0	ND	78	7-268			
PCB-118	63.2	10	ng/l	50.0	ND	126	0.1-256			
PCB-123	63.2	10	ng/l	50.0	ND	126	9-253			
PCB-126	43.9	10	ng/l	50.0	ND	88	0.1-305			
PCB-128	33.8	10	ng/l	50.0	ND	68	0.1-266			
PCB-138	41.6	10	ng/l	50.0	ND	83	6-267			
PCB-153	37.4	10	ng/l	50.0	ND	75	9-259			
PCB-156	41.2	10	ng/l	50.0	ND	82	3-278			
PCB-157	36.0	10	ng/l	50.0	ND	72	5-252			
PCB-167	32.8	10	ng/l	50.0	ND	66	6-269			
PCB-169	50.7	10	ng/l	50.0	ND	101	12-273			
PCB-170	42.1	10	ng/l	50.0	ND	84	6-264			
PCB-18	53.7	10	ng/l	50.0	ND	107	28-213			
PCB-180	41.0	10	ng/l	50.0	ND	82	6-279			
PCB-187	38.7	10	ng/l	50.0	ND	77	7-280			
PCB-189	44.2	10	ng/l	50.0	ND	88	21-262			
PCB-195	45.2	10	ng/l	50.0	ND	90	28-257			



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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	Limit	Qualifier
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Batch: W6K1547 - GC/MS/MS (Continued)

Matrix Spike (W6K1547-MS1)

Source: 6K15087-01

Prepared: 11/29/16 Analyzed: 12/05/16

PCB-206	43.6	10	ng/l	50.0	ND	87	19-152			
PCB-209	35.7	10	ng/l	50.0	ND	71	14-257			
PCB-28	55.7	10	ng/l	50.0	ND	111	27-218			
PCB-44	55.5	10	ng/l	50.0	ND	111	29-210			
PCB-52	51.7	10	ng/l	50.0	ND	103	22-219			
PCB-66	62.4	10	ng/l	50.0	ND	125	12-283			
PCB-77	77.7	10	ng/l	50.0	ND	155	21-219			
PCB-8	51.1	10	ng/l	50.0	ND	102	6-251			
PCB-81	62.6	10	ng/l	50.0	ND	125	12-263			

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene		134	ng/l	250		53	49-146			
Triphenyl phosphate		329	ng/l	250		131	30-213			

Matrix Spike Dup (W6K1547-MSD1)

Source: 6K15087-01

Prepared: 11/29/16 Analyzed: 12/05/16

PCB-101	65.9	10	ng/l	50.0	ND	132	13-256	13	30	
PCB-105	41.8	10	ng/l	50.0	ND	84	28-250	2	30	
PCB-114	41.9	10	ng/l	50.0	ND	84	7-268	7	30	
PCB-118	69.2	10	ng/l	50.0	ND	138	0.1-256	9	30	
PCB-123	69.2	10	ng/l	50.0	ND	138	9-253	9	30	
PCB-126	46.2	10	ng/l	50.0	ND	92	0.1-305	5	30	
PCB-128	37.8	10	ng/l	50.0	ND	76	0.1-266	11	30	
PCB-138	44.3	10	ng/l	50.0	ND	89	6-267	6	30	
PCB-153	41.2	10	ng/l	50.0	ND	82	9-259	10	30	
PCB-156	44.6	10	ng/l	50.0	ND	89	3-278	8	30	
PCB-157	39.1	10	ng/l	50.0	ND	78	5-252	8	30	
PCB-167	37.8	10	ng/l	50.0	ND	76	6-269	14	30	
PCB-169	52.1	10	ng/l	50.0	ND	104	12-273	3	30	
PCB-170	44.5	10	ng/l	50.0	ND	89	6-264	6	30	
PCB-18	58.2	10	ng/l	50.0	ND	116	28-213	8	30	
PCB-180	44.0	10	ng/l	50.0	ND	88	6-279	7	30	
PCB-187	41.3	10	ng/l	50.0	ND	83	7-280	6	30	
PCB-189	48.0	10	ng/l	50.0	ND	96	21-262	8	30	
PCB-195	48.4	10	ng/l	50.0	ND	97	28-257	7	30	
PCB-206	47.0	10	ng/l	50.0	ND	94	19-152	7	30	
PCB-209	37.0	10	ng/l	50.0	ND	74	14-257	3	30	
PCB-28	61.8	10	ng/l	50.0	ND	124	27-218	10	30	
PCB-44	59.9	10	ng/l	50.0	ND	120	29-210	8	30	
PCB-52	56.0	10	ng/l	50.0	ND	112	22-219	8	30	

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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
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Batch: W6K1547 - GC/MS/MS (Continued)

Matrix Spike Dup (W6K1547-MSD1)

Source: 6K15087-01

Prepared: 11/29/16 Analyzed: 12/05/16

PCB-66	69.1	10	ng/l	50.0	ND	138	12-283	10	30	
PCB-77	74.2	10	ng/l	50.0	ND	148	21-219	5	30	
PCB-8	59.4	10	ng/l	50.0	ND	119	6-251	15	30	
PCB-81	69.2	10	ng/l	50.0	ND	138	12-263	10	30	

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	170	ng/l	250	68	49-146	
Triphenyl phosphate	357	ng/l	250	143	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: W6L1311 - EPA 314.0										
Blank (W6L1311-BLK1)				Prepared & Analyzed: 12/08/16						
Perchlorate	ND	2.0	ug/l							
LCS (W6L1311-BS1)				Prepared & Analyzed: 12/08/16						
Perchlorate	9.20	2.0	ug/l	10.0		92	85-115			
Matrix Spike (W6L1311-MS1)				Prepared & Analyzed: 12/08/16						
Perchlorate	12.3	2.0	ug/l	10.0	2.47	98	80-120			
Matrix Spike Dup (W6L1311-MSD1)				Prepared & Analyzed: 12/08/16						
Perchlorate	13.2	2.0	ug/l	10.0	2.47	108	80-120	8	15	



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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
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Batch: W6K1515 - EPA 525.2

Blank (W6K1515-BLK1)

Prepared: 11/29/16 Analyzed: 11/30/16

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

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	443	ng/l	500	89	76-128
Triphenyl phosphate	538	ng/l	500	108	40-163

LCS (W6K1515-BS1)

Prepared: 11/29/16 Analyzed: 11/30/16

Azinphos methyl (Guthion)	61.0	10	ng/l	50.0	122	0.1-188
Bolstar	45.4	10	ng/l	50.0	91	11-166
Chlorpyrifos	45.8	10	ng/l	50.0	92	37-169
Coumaphos	63.3	10	ng/l	50.0	127	0.1-225
Demeton-o	10.2	10	ng/l	50.0	20	0.1-211
Demeton-s	57.1	10	ng/l	50.0	114	0.1-213
Diazinon	21.2	10	ng/l	50.0	42	43-152
Dichlorvos	46.4	10	ng/l	50.0	93	46-133
Dimethoate	38.2	10	ng/l	50.0	76	10-234

Q-ME



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Reported:

12/30/2016 10:30

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: W6K1515 - EPA 525.2 (Continued)										
LCS (W6K1515-BS1)				Prepared: 11/29/16 Analyzed: 11/30/16						
Disulfoton	33.4	10	ng/l	50.0		67	0.1-212			
Ethoprop	43.9	10	ng/l	50.0		88	53-163			
Ethyl parathion	57.1	10	ng/l	50.0		114	7-230			
Fensulfothion	48.3	10	ng/l	50.0		97	0.1-265			
Fenthion	35.7	10	ng/l	50.0		71	20-177			
Malathion	49.6	10	ng/l	50.0		99	14-175			
Merphos	52.9	10	ng/l	50.0		106	28-181			
Methyl parathion	62.3	10	ng/l	50.0		125	0.1-252			
Mevinphos	41.7	10	ng/l	50.0		83	14-202			
Naled	18.6	10	ng/l	50.0		37	0.1-240			
Phorate	48.6	10	ng/l	50.0		97	26-180			
Ronnel	47.4	10	ng/l	50.0		95	34-154			
Stirophos	42.6	10	ng/l	50.0		85	0.1-188			
Tokuthion (Prothiofos)	54.9	10	ng/l	50.0		110	23-159			
Trichloronate	52.2	10	ng/l	50.0		104	34-153			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		467	ng/l	500		93	76-128			
Triphenyl phosphate		580	ng/l	500		116	40-163			

Matrix Spike (W6K1515-MS1)				Source: 6K28078-01		Prepared: 11/29/16 Analyzed: 11/30/16				
Azinphos methyl (Guthion)	57.3	10	ng/l	50.0	ND	115	0.1-154			
Bolstar	64.1	10	ng/l	50.0	ND	128	4-184			
Chlorpyrifos	62.6	10	ng/l	50.0	ND	125	37-168			
Coumaphos	67.6	10	ng/l	50.0	ND	135	0.1-203			
Demeton-o	29.9	10	ng/l	50.0	ND	60	0.1-208			
Demeton-s	70.6	10	ng/l	50.0	ND	141	0.1-207			
Diazinon	44.2	10	ng/l	50.0	ND	88	36-153			
Dichlorvos	46.2	10	ng/l	50.0	ND	92	42-137			
Dimethoate	35.5	10	ng/l	50.0	ND	71	4-222			
Disulfoton	57.2	10	ng/l	50.0	ND	114	12-199			
Ethoprop	48.1	10	ng/l	50.0	ND	96	51-167			
Ethyl parathion	73.2	10	ng/l	50.0	ND	146	5-229			
Fensulfothion	42.5	10	ng/l	50.0	ND	85	0.1-316			
Fenthion	57.9	10	ng/l	50.0	ND	116	23-169			
Malathion	61.5	10	ng/l	50.0	ND	123	6-184			
Merphos	40.9	10	ng/l	50.0	ND	82	3-210			
Methyl parathion	68.0	10	ng/l	50.0	ND	136	0.1-249			
Mevinphos	35.9	10	ng/l	50.0	ND	72	25-189			



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Quality Control Results

(Continued)

Semivolatle Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Batch: W6K1515 - EPA 525.2 (Continued)

Matrix Spike (W6K1515-MS1)

Source: 6K28078-01

Prepared: 11/29/16 Analyzed: 11/30/16

Naled	19.6	10	ng/l	50.0	ND	39	0.1-242			
Phorate	57.7	10	ng/l	50.0	ND	115	31-181			
Ronnel	64.9	10	ng/l	50.0	ND	130	29-153			
Stirophos	58.1	10	ng/l	50.0	ND	116	0.1-167			
Tokuthion (Prothiofos)	51.4	10	ng/l	50.0	ND	103	27-160			
Trichloronate	72.0	10	ng/l	50.0	ND	144	40-150			

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene		430	ng/l	500		86	76-128			
Triphenyl phosphate		554	ng/l	500		111	40-163			

Batch: W6K1608 - EPA 525.2

Blank (W6K1608-BLK1)

Prepared: 11/30/16 Analyzed: 12/08/16

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		4.37	ug/l	5.00		87	73-138			
Perylene-d12		4.64	ug/l	5.00		93	30-118			
Triphenyl phosphate		4.97	ug/l	5.00		99	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: W6K1608 - EPA 525.2 (Continued)										
LCS (W6K1608-BS1)				Prepared: 11/30/16 Analyzed: 12/08/16						
Alachlor	4.71	0.10	ug/l	5.00		94	55-124			
Atrazine	4.90	0.10	ug/l	5.00		98	67-131			
Bromacil	4.18	0.50	ug/l	5.00		84	62-139			
Butachlor	5.33	0.10	ug/l	5.00		107	61-127			
Chlorpropham	5.09	0.10	ug/l	5.00		102	77-143			
Cyanazine	4.03	0.10	ug/l	5.00		81	61-129			
Diazinon	4.82	0.10	ug/l	5.00		96	30-120			
Dimethoate	3.00	0.20	ug/l	5.00		60	38-102			
Diphenamid	4.68	0.10	ug/l	5.00		94	77-124			
Disulfoton	3.78	0.10	ug/l	5.00		76	54-156			
EPTC	5.05	0.10	ug/l	5.00		101	82-116			
Metolachlor	5.02	0.10	ug/l	5.00		100	61-123			
Metribuzin	3.79	0.10	ug/l	5.00		76	50-121			
Molinate	4.83	0.10	ug/l	5.00		97	82-117			
Prometon	1.10	0.10	ug/l	5.00		22	17-101			
Prometryn	2.24	0.10	ug/l	5.00		45	57-122			BS-03
Simazine	4.05	0.10	ug/l	5.00		81	53-116			
Terbacil	4.00	2.0	ug/l	5.00		80	70-135			
Thiobencarb	4.79	0.10	ug/l	5.00		96	56-125			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		4.13	ug/l	5.00		83	73-138			
Perylene-d12		4.95	ug/l	5.00		99	30-118			
Triphenyl phosphate		5.64	ug/l	5.00		113	70-149			
Matrix Spike (W6K1608-MS1)				Source: 6K29077-02 Prepared: 11/30/16 Analyzed: 12/08/16						
Alachlor	5.12	0.10	ug/l	5.00	ND	102	44-149			
Atrazine	5.56	0.10	ug/l	5.00	ND	111	67-145			
Bromacil	5.69	0.50	ug/l	5.00	ND	114	60-160			
Butachlor	5.47	0.10	ug/l	5.00	ND	109	53-146			
Chlorpropham	5.67	0.10	ug/l	5.00	ND	113	80-156			
Cyanazine	5.40	0.10	ug/l	5.00	ND	108	32-142			
Diazinon	5.40	0.10	ug/l	5.00	ND	108	21-153			
Dimethoate	4.98	0.20	ug/l	5.00	ND	100	40-132			
Diphenamid	5.81	0.10	ug/l	5.00	ND	116	80-130			
Disulfoton	4.12	0.10	ug/l	5.00	ND	82	24-164			
EPTC	5.28	0.10	ug/l	5.00	ND	106	75-126			
Metolachlor	5.48	0.10	ug/l	5.00	ND	110	60-137			
Metribuzin	5.06	0.10	ug/l	5.00	ND	101	47-125			



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Quality Control Results

(Continued)

Semivolatle Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
Batch: W6K1608 - EPA 525.2 (Continued)										
Matrix Spike (W6K1608-MS1)			Source: 6K29077-02		Prepared: 11/30/16 Analyzed: 12/08/16					
Molinate	5.32	0.10	ug/l	5.00	ND	106	81-125			
Prometon	4.51	0.10	ug/l	5.00	ND	90	28-112			
Prometryn	5.35	0.10	ug/l	5.00	ND	107	61-127			
Simazine	5.25	0.10	ug/l	5.00	ND	105	55-113			
Terbacil	6.25	2.0	ug/l	5.00	ND	125	72-155			
Thiobencarb	4.88	0.10	ug/l	5.00	ND	98	45-145			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		4.95	ug/l	5.00		99	73-138			
Perylene-d12		5.09	ug/l	5.00		102	30-118			
Triphenyl phosphate		5.67	ug/l	5.00		113	70-149			
Matrix Spike Dup (W6K1608-MSD1)			Source: 6K29077-02		Prepared: 11/30/16 Analyzed: 12/08/16					
Alachlor	4.67	0.10	ug/l	5.00	ND	93	44-149	9	30	
Atrazine	5.27	0.10	ug/l	5.00	ND	105	67-145	5	30	
Bromacil	5.71	0.50	ug/l	5.00	ND	114	60-160	0.4	30	
Butachlor	5.26	0.10	ug/l	5.00	ND	105	53-146	4	30	
Chlorpropham	5.23	0.10	ug/l	5.00	ND	105	80-156	8	30	
Cyanazine	4.43	0.10	ug/l	5.00	ND	89	32-142	20	30	
Diazinon	4.71	0.10	ug/l	5.00	ND	94	21-153	14	30	
Dimethoate	5.05	0.20	ug/l	5.00	ND	101	40-132	1	30	
Diphenamid	5.65	0.10	ug/l	5.00	ND	113	80-130	3	30	
Disulfoton	3.58	0.10	ug/l	5.00	ND	72	24-164	14	30	
EPTC	4.93	0.10	ug/l	5.00	ND	99	75-126	7	30	
Metolachlor	5.13	0.10	ug/l	5.00	ND	103	60-137	7	30	
Metribuzin	4.87	0.10	ug/l	5.00	ND	97	47-125	4	30	
Molinate	4.86	0.10	ug/l	5.00	ND	97	81-125	9	30	
Prometon	4.30	0.10	ug/l	5.00	ND	86	28-112	5	30	
Prometryn	5.12	0.10	ug/l	5.00	ND	102	61-127	4	30	
Simazine	5.10	0.10	ug/l	5.00	ND	102	55-113	3	30	
Terbacil	6.33	2.0	ug/l	5.00	ND	127	72-155	1	30	
Thiobencarb	4.49	0.10	ug/l	5.00	ND	90	45-145	8	30	
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		5.13	ug/l	5.00		103	73-138			
Perylene-d12		4.57	ug/l	5.00		91	30-118			
Triphenyl phosphate		6.19	ug/l	5.00		124	70-149			

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Quality Control Results

(Continued)

Semivolatle 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: W6L0875 - GC/MS/MS

Blank (W6L0875-BLK1)

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

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	102	ng/l	100	102	50-150
Perylene-d12	67.0	ng/l	100	67	50-150

LCS (W6L0875-BS1)

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

Acenaphthene	36.2	5.0	ng/l	50.0	72	50-150
Acenaphthylene	37.5	5.0	ng/l	50.0	75	50-150
Anthracene	42.0	5.0	ng/l	50.0	84	50-150
Benzo (a) anthracene	53.4	5.0	ng/l	50.0	107	50-150
Benzo (a) pyrene	45.3	5.0	ng/l	50.0	91	50-150
Benzo (b) fluoranthene	41.6	5.0	ng/l	50.0	83	50-150
Benzo (g,h,i) perylene	43.6	5.0	ng/l	50.0	87	50-150
Benzo (k) fluoranthene	47.6	5.0	ng/l	50.0	95	50-150
Chrysene	44.3	5.0	ng/l	50.0	89	50-150
Dibenzo (a,h) anthracene	40.5	5.0	ng/l	50.0	81	50-150
Fluoranthene	46.9	5.0	ng/l	50.0	94	50-150
Fluorene	39.2	5.0	ng/l	50.0	78	50-150
Indeno (1,2,3-cd) pyrene	36.2	5.0	ng/l	50.0	72	50-150
Naphthalene	35.9	5.0	ng/l	50.0	72	50-150
Phenanthrene	43.9	5.0	ng/l	50.0	88	50-150
Pyrene	47.9	5.0	ng/l	50.0	96	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	Limit	Qualifier
Batch: W6L0875 - GC/MS/MS (Continued)										
LCS (W6L0875-BS1)				Prepared: 12/01/16 Analyzed: 12/07/16						
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene		97.2	ng/l	100		97	50-150			
Perylene-d12		86.6	ng/l	100		87	50-150			
LCS Dup (W6L0875-BSD1)				Prepared: 12/01/16 Analyzed: 12/07/16						
Acenaphthene	31.2	5.0	ng/l	50.0		62	50-150	15	30	
Acenaphthylene	32.5	5.0	ng/l	50.0		65	50-150	14	30	
Anthracene	37.0	5.0	ng/l	50.0		74	50-150	13	30	
Benzo (a) anthracene	53.0	5.0	ng/l	50.0		106	50-150	0.7	30	
Benzo (a) pyrene	54.6	5.0	ng/l	50.0		109	50-150	19	30	
Benzo (b) fluoranthene	47.7	5.0	ng/l	50.0		95	50-150	13	30	
Benzo (g,h,i) perylene	50.5	5.0	ng/l	50.0		101	50-150	15	30	
Benzo (k) fluoranthene	55.4	5.0	ng/l	50.0		111	50-150	15	30	
Chrysene	46.7	5.0	ng/l	50.0		93	50-150	5	30	
Dibenzo (a,h) anthracene	46.0	5.0	ng/l	50.0		92	50-150	13	30	
Fluoranthene	38.8	5.0	ng/l	50.0		78	50-150	19	30	
Fluorene	33.3	5.0	ng/l	50.0		67	50-150	16	30	
Indeno (1,2,3-cd) pyrene	43.1	5.0	ng/l	50.0		86	50-150	17	30	
Naphthalene	33.5	5.0	ng/l	50.0		67	50-150	7	30	
Phenanthrene	41.6	5.0	ng/l	50.0		83	50-150	5	30	
Pyrene	39.6	5.0	ng/l	50.0		79	50-150	19	30	
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene		97.1	ng/l	100		97	50-150			
Perylene-d12		94.4	ng/l	100		94	50-150			
Matrix Spike (W6L0875-MS1)		Source: 6K21023-05RE1		Prepared: 12/01/16 Analyzed: 12/07/16						
Acenaphthene	57.8	7.1	ng/l	71.4	2.51	77	50-150			M-03
Acenaphthylene	58.7	7.1	ng/l	71.4	1.06	81	50-150			M-03
Anthracene	60.7	7.1	ng/l	71.4	2.89	81	50-150			M-03
Benzo (a) anthracene	91.0	7.1	ng/l	71.4	ND	127	50-150			M-03
Benzo (a) pyrene	69.9	7.1	ng/l	71.4	ND	98	50-150			M-03
Benzo (b) fluoranthene	68.3	7.1	ng/l	71.4	ND	96	50-150			M-03
Benzo (g,h,i) perylene	47.8	7.1	ng/l	71.4	ND	67	50-150			M-03
Benzo (k) fluoranthene	52.2	7.1	ng/l	71.4	ND	73	50-150			M-03
Chrysene	57.6	7.1	ng/l	71.4	ND	81	50-150			M-03
Dibenzo (a,h) anthracene	46.4	7.1	ng/l	71.4	ND	65	50-150			M-03
Fluoranthene	59.3	7.1	ng/l	71.4	6.19	74	50-150			M-03
Fluorene	65.0	7.1	ng/l	71.4	4.46	85	50-150			M-03
Indeno (1,2,3-cd) pyrene	56.4	7.1	ng/l	71.4	ND	79	50-150			M-03
Naphthalene	63.1	7.1	ng/l	71.4	14.5	68	50-150			M-03

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Project Manager: Ed Suher

Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W6L0875 - GC/MS/MS (Continued)										
Matrix Spike (W6L0875-MS1)		Source: 6K21023-05RE1		Prepared: 12/01/16 Analyzed: 12/07/16						
Phenanthrene	81.8	7.1	ng/l	71.4	10.3	100	50-150			M-03
Pyrene	63.3	7.1	ng/l	71.4	5.12	81	50-150			M-03
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		150	ng/l	143		105	50-150			M-03
Perylene-d12		126	ng/l	143		89	50-150			M-03
Matrix Spike Dup (W6L0875-MSD1)		Source: 6K21023-05RE1		Prepared: 12/01/16 Analyzed: 12/07/16						
Acenaphthene	44.5	7.1	ng/l	71.4	2.51	59	50-150	26	30	M-03
Acenaphthylene	46.1	7.1	ng/l	71.4	1.06	63	50-150	24	30	M-03
Anthracene	54.9	7.1	ng/l	71.4	2.89	73	50-150	10	30	M-03
Benzo (a) anthracene	73.1	7.1	ng/l	71.4	ND	102	50-150	22	30	M-03
Benzo (a) pyrene	49.3	7.1	ng/l	71.4	ND	69	50-150	35	30	M-03, MS-05
Benzo (b) fluoranthene	56.0	7.1	ng/l	71.4	ND	78	50-150	20	30	M-03
Benzo (g,h,i) perylene	37.9	7.1	ng/l	71.4	ND	53	50-150	23	30	M-03
Benzo (k) fluoranthene	40.2	7.1	ng/l	71.4	ND	56	50-150	26	30	M-03
Chrysene	43.6	7.1	ng/l	71.4	ND	61	50-150	28	30	M-03
Dibenzo (a,h) anthracene	36.7	7.1	ng/l	71.4	ND	51	50-150	23	30	M-03
Fluoranthene	60.1	7.1	ng/l	71.4	6.19	75	50-150	1	30	M-03
Fluorene	51.3	7.1	ng/l	71.4	4.46	66	50-150	24	30	M-03
Indeno (1,2,3-cd) pyrene	44.2	7.1	ng/l	71.4	ND	62	50-150	24	30	M-03
Naphthalene	43.1	7.1	ng/l	71.4	14.5	40	50-150	38	30	M-03, MS-05
Phenanthrene	62.6	7.1	ng/l	71.4	10.3	73	50-150	27	30	M-03
Pyrene	61.0	7.1	ng/l	71.4	5.12	78	50-150	4	30	M-03
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		116	ng/l	143		81	50-150			M-03
Perylene-d12		99.7	ng/l	143		70	50-150			M-03

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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: W6K1385 - EPA 624										
Blank (W6K1385-BLK1)				Prepared: 11/23/16 Analyzed: 11/24/16						
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	Limit	Qualifier
Batch: W6K1385 - EPA 624 (Continued)										
Blank (W6K1385-BLK1)				Prepared: 11/23/16 Analyzed: 11/24/16						
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		51.5	ug/l	50.0		103	82-125			
4-Bromofluorobenzene		47.6	ug/l	50.0		95	88-108			
Toluene-d8		49.4	ug/l	50.0		99	92-112			
LCS (W6K1385-BS1)				Prepared: 11/23/16 Analyzed: 11/24/16						
1,1,1-Trichloroethane	52.8	1.0	ug/l	50.0		106	52-162			
1,1,2,2-Tetrachloroethane	54.4	1.0	ug/l	50.0		109	46-157			
1,1,2-Trichloroethane	52.0	1.0	ug/l	50.0		104	52-150			
1,1-Dichloroethane	53.2	1.0	ug/l	50.0		106	59-155			
1,1-Dichloroethene	52.3	1.0	ug/l	50.0		105	0.1-234			
1,2-Dichloroethane	52.8	1.0	ug/l	50.0		106	49-155			
1,2-Dichloropropane	50.6	1.0	ug/l	50.0		101	0.1-210			
2-Butanone	53.4	5.0	ug/l	50.0		107	67-136			
2-Chloroethyl vinyl ether	50.1	1.0	ug/l	50.0		100	0.1-305			
2-Hexanone	51.0	5.0	ug/l	50.0		102	76-133			
4-Methyl-2-pentanone	51.5	5.0	ug/l	50.0		103	74-132			
Acetone	55.1	5.0	ug/l	50.0		110	60-147			
Acrolein	55.3	5.0	ug/l	50.0		111	49-152			
Acrylonitrile	50.6	2.0	ug/l	50.0		101	74-127			
Benzene	51.3	1.0	ug/l	50.0		103	37-151			
Bromodichloromethane	54.2	1.0	ug/l	50.0		108	35-155			
Bromoform	50.9	1.0	ug/l	50.0		102	45-169			
Bromomethane	59.5	1.0	ug/l	50.0		119	0.1-242			
Carbon Disulfide	56.2	1.0	ug/l	50.0		112	79-118			
Carbon tetrachloride	46.9	1.0	ug/l	50.0		94	70-140			
Chlorobenzene	56.5	1.0	ug/l	50.0		113	37-160			
Chloroethane	53.2	1.0	ug/l	50.0		106	14-230			
Chloroform	54.0	1.0	ug/l	50.0		108	51-138			
Chloromethane	53.3	1.0	ug/l	50.0		107	0.1-273			
cis-1,3-Dichloropropene	50.8	1.0	ug/l	50.0		102	0.1-227			
Dibromochloromethane	53.5	1.0	ug/l	50.0		107	53-149			
Dichlorodifluoromethane (Freon 12)	55.9	1.0	ug/l	50.0		112	67-126			
Ethylbenzene	53.5	1.0	ug/l	50.0		107	37-162			
m,p-Xylene	47.3	1.0	ug/l	50.0		95	81-121			



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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
Batch: W6K1385 - EPA 624 (Continued)										
LCS (W6K1385-BS1)				Prepared: 11/23/16 Analyzed: 11/24/16						
m-Dichlorobenzene	55.3	1.0	ug/l	50.0		111	59-156			
Methyl tert-butyl ether (MTBE)	53.2	1.0	ug/l	50.0		106	80-128			
Methylene chloride	52.4	1.0	ug/l	50.0		105	0.1-221			
o-Dichlorobenzene	57.2	1.0	ug/l	50.0		114	18-190			
o-Xylene	47.9	1.0	ug/l	50.0		96	84-121			
p-Dichlorobenzene	56.7	1.0	ug/l	50.0		113	18-190			
Tetrachloroethene	51.4	1.0	ug/l	50.0		103	64-148			
Toluene	51.1	1.0	ug/l	50.0		102	47-150			
trans-1,2-Dichloroethene	51.4	1.0	ug/l	50.0		103	54-156			
trans-1,3-Dichloropropene	50.0	1.0	ug/l	50.0		100	17-183			
Trichloroethene	50.7	1.0	ug/l	50.0		101	71-157			
Trichlorofluoromethane	56.4	1.0	ug/l	50.0		113	17-181			
Vinyl chloride	55.7	1.0	ug/l	50.0		111	0.1-251			
<i>Surrogate(s)</i>										
1,2-Dichloroethane-d4		49.4	ug/l	50.0		99	82-125			
4-Bromofluorobenzene		52.0	ug/l	50.0		104	88-108			
Toluene-d8		49.7	ug/l	50.0		99	92-112			
LCS Dup (W6K1385-BSD1)				Prepared: 11/23/16 Analyzed: 11/24/16						
1,1,1-Trichloroethane	50.2	1.0	ug/l	50.0		100	52-162	5	25	
1,1,2,2-Tetrachloroethane	52.9	1.0	ug/l	50.0		106	46-157	3	25	
1,1,2-Trichloroethane	50.3	1.0	ug/l	50.0		101	52-150	3	25	
1,1-Dichloroethane	51.8	1.0	ug/l	50.0		104	59-155	3	25	
1,1-Dichloroethene	50.3	1.0	ug/l	50.0		101	0.1-234	4	25	
1,2-Dichloroethane	52.3	1.0	ug/l	50.0		105	49-155	0.9	25	
1,2-Dichloropropane	49.9	1.0	ug/l	50.0		100	0.1-210	2	25	
2-Butanone	52.1	5.0	ug/l	50.0		104	67-136	2	25	
2-Chloroethyl vinyl ether	48.5	1.0	ug/l	50.0		97	0.1-305	3	25	
2-Hexanone	50.7	5.0	ug/l	50.0		101	76-133	0.5	25	
4-Methyl-2-pentanone	50.5	5.0	ug/l	50.0		101	74-132	2	25	
Acetone	53.7	5.0	ug/l	50.0		107	60-147	3	25	
Acrolein	57.8	5.0	ug/l	50.0		116	49-152	4	25	
Acrylonitrile	49.8	2.0	ug/l	50.0		100	74-127	2	25	
Benzene	49.6	1.0	ug/l	50.0		99	37-151	3	25	
Bromodichloromethane	52.9	1.0	ug/l	50.0		106	35-155	3	25	
Bromoform	47.2	1.0	ug/l	50.0		94	45-169	8	25	
Bromomethane	58.6	1.0	ug/l	50.0		117	0.1-242	2	25	
Carbon Disulfide	54.0	1.0	ug/l	50.0		108	79-118	4	25	

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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: W6K1385 - EPA 624 (Continued)										
LCS Dup (W6K1385-BSD1)				Prepared: 11/23/16 Analyzed: 11/24/16						
Carbon tetrachloride	44.2	1.0	ug/l	50.0		88	70-140	6	25	
Chlorobenzene	53.0	1.0	ug/l	50.0		106	37-160	6	25	
Chloroethane	51.5	1.0	ug/l	50.0		103	14-230	3	25	
Chloroform	52.6	1.0	ug/l	50.0		105	51-138	3	25	
Chloromethane	51.2	1.0	ug/l	50.0		102	0.1-273	4	25	
cis-1,3-Dichloropropene	49.7	1.0	ug/l	50.0		99	0.1-227	2	25	
Dibromochloromethane	51.0	1.0	ug/l	50.0		102	53-149	5	25	
Dichlorodifluoromethane (Freon 12)	52.8	1.0	ug/l	50.0		106	67-126	6	25	
Ethylbenzene	50.3	1.0	ug/l	50.0		101	37-162	6	25	
m,p-Xylene	43.6	1.0	ug/l	50.0		87	81-121	8	25	
m-Dichlorobenzene	52.2	1.0	ug/l	50.0		104	59-156	6	25	
Methyl tert-butyl ether (MTBE)	52.4	1.0	ug/l	50.0		105	80-128	2	25	
Methylene chloride	51.9	1.0	ug/l	50.0		104	0.1-221	1	25	
o-Dichlorobenzene	54.3	1.0	ug/l	50.0		109	18-190	5	25	
o-Xylene	45.3	1.0	ug/l	50.0		91	84-121	6	25	
p-Dichlorobenzene	53.4	1.0	ug/l	50.0		107	18-190	6	25	
Tetrachloroethene	47.8	1.0	ug/l	50.0		96	64-148	7	25	
Toluene	49.3	1.0	ug/l	50.0		99	47-150	3	25	
trans-1,2-Dichloroethene	49.9	1.0	ug/l	50.0		100	54-156	3	25	
trans-1,3-Dichloropropene	48.9	1.0	ug/l	50.0		98	17-183	2	25	
Trichloroethene	48.5	1.0	ug/l	50.0		97	71-157	4	25	
Trichlorofluoromethane	52.2	1.0	ug/l	50.0		104	17-181	8	25	
Vinyl chloride	52.0	1.0	ug/l	50.0		104	0.1-251	7	25	
<i>Surrogate(s)</i>										
1,2-Dichloroethane-d4		50.0	ug/l	50.0		100	82-125			
4-Bromofluorobenzene		50.8	ug/l	50.0		102	88-108			
Toluene-d8		49.8	ug/l	50.0		100	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.
BS-03	The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another acceptable BS/LCS and/or MS and MSD that meet BS criteria.
C-3620	The "Florisil Cleanup" was performed to the sample.
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-03	Due to insufficient sample volume, 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.
O-08	The original extraction and/or analysis of this sample yielded QC recoveries outside acceptance criteria. It was re-extracted/re-analyzed after the recommended maximum hold time.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
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.