WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 6L16009

Project: ElMonte SW Outfall Monitoring

Attn: Edmond G. Suher

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

Report Date: 1/14/2017
Received Date: 12/16/2016
Turnaround Time: Normal
Phones: (818) 841-9004
Fax: (818) 841-8013
P.O. #:

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

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

Dear Edmond G. Suher,

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

Reviewed by:

Brandon Gee
Operations Manager/Senior PM

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

Project Number: ElMonte SW Outfall Monitoring

Project Manager: Edmond G. Suher

Reported:
01/14/2017 09:36

Sample Summary

Sample ID	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Outfall #7 (SG)	ES/ RS	6L16009-01	Water	12/16/16 01:10	
LL Hg Field Blank	ES/ RS	6L16009-02	Water	12/16/16 00:00	
Outfall #6 (LL)	ES/ RS	6L16009-03	Water	12/16/16 02:20	
LL Hg Field Blank	ES/ RS	6L16009-04	Water	12/16/16 00:00	
Outfall #5 (RH)	ES/ RS	6L16009-05	Water	12/16/16 03:15	
LL Hg Field Blank	ES/ RS	6L16009-06	Water	12/16/16 00:00	

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
Enterolert in Water		
Enterococcus		NELAP
GC/MS/MS in Water		
Naphthalene	91-20-3	NELAP
Acenaphthylene	208-96-8	NELAP
Acenaphthene	83-32-9	NELAP
Fluorene	86-73-7	NELAP
Phenanthrene	85-01-8	NELAP
Anthracene	120-12-7	NELAP
Fluoranthene	206-44-0	NELAP
Pyrene	129-00-0	NELAP
Benzo (a) anthracene	56-55-3	NELAP
Chrysene	218-01-9	NELAP
Benzo (b) fluoranthene	205-99-2	NELAP
Benzo (k) fluoranthene	207-08-9	NELAP
Benzo (a) pyrene	50-32-8	NELAP
Indeno (1,2,3-cd) pyrene	193-39-5	NELAP
Dibenzo (a,h) anthracene	53-70-3	NELAP
Benzo (g,h,i) perylene	191-24-2	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: 01/14/2017 09:36

Sample Results

Sample: Outfall #7 (SG)
6L16009-01 (Water)

Sampled: 12/16/16 1:10 by ES/ RS

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.0						
Method: EPA 300.0	**Batch ID:** W7A1282	**Prepared:** 01/04/17 09:18				**Analyst:** jan
Chloride, Total	**2.6**	0.50	mg/l	1	01/04/17 15:22	
Sulfate as SO4	**3.1**	0.50	mg/l	1	01/04/17 15:22	
Chlorinated Herbicides						
Method: EPA 515.3	**Batch ID:** W6L1945	**Prepared:** 12/19/16 11:10				**Analyst:** rmr
2,4,5-T	ND	0.20	ug/l	1	12/30/16 19:08	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	12/30/16 19:08	
2,4-D	ND	0.40	ug/l	1	12/30/16 19:08	
2,4-DB	ND	2.0	ug/l	1	12/30/16 19:08	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/30/16 19:08	
Acifluorfen	ND	0.40	ug/l	1	12/30/16 19:08	
Bentazon	ND	2.0	ug/l	1	12/30/16 19:08	
Dalapon	ND	0.40	ug/l	1	12/30/16 19:08	
DCPA	ND	0.10	ug/l	1	12/30/16 19:08	
Dicamba	ND	0.60	ug/l	1	12/30/16 19:08	
Dichloroprop	ND	0.30	ug/l	1	12/30/16 19:08	
Dinoseb	ND	0.40	ug/l	1	12/30/16 19:08	
Pentachlorophenol	**0.29**	0.20	ug/l	1	12/30/16 19:08	
Picloram	ND	0.60	ug/l	1	12/30/16 19:08	
Surrogate(s)						
2,4-DCAA	*103%*	*Conc: 10.3*	*70-130*		*12/30/16 19:08*	
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: ASTM D7511	**Batch ID:** W6L2378	**Prepared:** 12/27/16 10:25				**Analyst:** mbc
Cyanide, Total	ND	2.0	ug/l	1	12/27/16 15:43	
Method: EPA 160.4	**Batch ID:** W6L2146	**Prepared:** 12/21/16 15:54				**Analyst:** ajk
Volatile Suspended Solids	**6.0**	5.0	mg/l	1	12/21/16 17:00	
Method: EPA 180.1	**Batch ID:** W6L1887	**Prepared:** 12/17/16 11:04				**Analyst:** dmn
Turbidity	**9.0**	0.10	NTU	1	12/17/16 14:46	
Method: EPA 350.1	**Batch ID:** W6L2662	**Prepared:** 12/31/16 11:03				**Analyst:** mnq
Ammonia as N	**0.65**	0.10	mg/l	1	01/03/17 16:43	
Method: EPA 351.2	**Batch ID:** W6L2411	**Prepared:** 12/27/16 14:33				**Analyst:** ymt
TKN	**1.8**	0.10	mg/l	1	12/29/16 16:53	
Method: EPA 353.2	**Batch ID:** W6L2006	**Prepared:** 12/20/16 09:12				**Analyst:** AJK
NO2+NO3 as N	**980**	100	ug/l	1	12/20/16 11:24	
Method: EPA 365.1	**Batch ID:** W6L1970	**Prepared:** 12/19/16 14:05				**Analyst:** nat
Phosphorus as P, Total	**0.32**	0.020	mg/l	2	12/22/16 12:53	
Method: EPA 365.3	**Batch ID:** W6L2346	**Prepared:** 12/24/16 09:41				**Analyst:** dmn
Phosphorus, Dissolved	**0.27**	0.010	mg/l	1	12/30/16 12:42	

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Project Manager: Edmond G. Suher

Reported: 01/14/2017 09:36

Sample Results

(Continued)

Sample: Outfall #7 (SG)

6L16009-01 (Water)

Sampled: 12/16/16 1:10 by ES/ RS

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 410.4	**Batch ID:** W6L2499	**Prepared:** 12/28/16 14:24				**Analyst:** mnq
Chemical Oxygen Demand	**39**	5.0	mg/l	1	01/04/17 19:22	
Method: EPA 420.4	**Batch ID:** W6L2004	**Prepared:** 12/20/16 09:09				**Analyst:** AJK
Phenolics	ND	0.010	mg/l	1	12/28/16 11:04	
Method: SM 2320B	**Batch ID:** W6L2381	**Prepared:** 12/27/16 11:02				**Analyst:** dmn
Alkalinity as CaCO3	**26**	2.0	mg/l	1	12/28/16 13:30	
Method: SM 2510B	**Batch ID:** W6L2026	**Prepared:** 12/20/16 11:12				**Analyst:** dmn
Specific Conductance (EC)	**75**	2.0	umhos/cm	1	12/20/16 14:23	
Method: SM 2540C	**Batch ID:** W6L1905	**Prepared:** 12/18/16 08:20				**Analyst:** ymt
Total Dissolved Solids	**62**	10	mg/l	1	12/20/16 19:20	
Method: SM 2540D	**Batch ID:** W6L2145	**Prepared:** 12/21/16 15:56				**Analyst:** ajk
Total Suspended Solids	**11**	5	mg/l	1	12/21/16 17:00	
Method: SM 4500O-G	**Batch ID:** W6L1859	**Prepared:** 12/16/16 17:03				**Analyst:** mnq
Dissolved Oxygen	**8.07**	1.00	mg/l	1	12/16/16 17:53	*
Method: SM 5210B	**Batch ID:** W6L1835	**Prepared:** 12/16/16 12:44				**Analyst:** mnq
Biochemical Oxygen Demand	**8.5**	2.0	mg/l	1	12/21/16 18:12	
Method: SM 5310C	**Batch ID:** W6L2133	**Prepared:** 12/21/16 12:36				**Analyst:** jlp
Total Organic Carbon (TOC)	**11**	1.5	mg/l	5	12/21/16 15:27	
Method: SM 5540C	**Batch ID:** W6L1880	**Prepared:** 12/17/16 09:04				**Analyst:** nat
MBAS	**0.22**	0.050	mg/l	1	12/17/16 13:26	
Hexavalent Chromium by IC						
Method: EPA 218.6	**Batch ID:** W6L2448	**Prepared:** 12/27/16 19:13				**Analyst:** blg
Chromium 6+	**0.52**	0.020	ug/l	1	12/28/16 08:00	
Method: EPA 218.6	**Batch ID:** W6L2644	**Prepared:** 12/30/16 00:00				**Analyst:** blg
Chromium 6+, Dissolved	**0.53**	0.020	ug/l	1	12/30/16 00:30	
Hydrocarbons by EPA 8015D						
Method: EPA 8015D	**Batch ID:** W6L1924	**Prepared:** 12/19/16 09:35				**Analyst:** cam
Diesel Range Organics	**0.79**	0.10	mg/l	1	12/22/16 23:18	
Oil Range Organics	**0.97**	0.50	mg/l	1	12/22/16 23:18	
Surrogate(s)						
n-Tetracosane	*112%*	*Conc: 0.280*	*64-155*		*12/22/16 23:18*	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L2537	**Prepared:** 12/16/16 16:39				**Analyst:** gza
Mercury, Dissolved	**18**	0.50	ng/l	1	12/29/16 14:19	
Mercury, Total	**25**	0.50	ng/l	1	12/29/16 14:19	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	**Batch ID:** [CALC]	**Prepared:** 12/29/16 17:22				**Analyst:** JCK
Calcium Hardness as CaCO3	**16.9**	0.250	mg/l	1	01/04/17 16:59	
Method: EPA 200.7	**Batch ID:** W6L2594	**Prepared:** 12/29/16 17:22				**Analyst:** JCK

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Reported: 01/14/2017 09:36

Sample Results

(Continued)

Sample: Outfall #7 (SG)

6L16009-01 (Water)

Sampled: 12/16/16 1:10 by ES/ RS

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Calcium, Total	**6.79**	0.100	mg/l	1	01/04/17 16:59	
Method: EPA 200.8	**Batch ID:** W6L2591	**Prepared:** 12/29/16 17:07				**Analyst:** rrl
Aluminum, Dissolved	**20**	5.0	ug/l	1	01/09/17 11:45	
Aluminum, Total	**190**	5.0	ug/l	1	01/09/17 11:49	
Antimony, Dissolved	**1.1**	0.50	ug/l	1	01/09/17 11:45	
Antimony, Total	**1.6**	0.50	ug/l	1	01/09/17 11:49	
Arsenic, Dissolved	**0.83**	0.40	ug/l	1	01/09/17 11:45	
Arsenic, Total	**0.97**	0.40	ug/l	1	01/09/17 11:49	
Cadmium, Dissolved	ND	0.10	ug/l	1	01/09/17 11:45	
Cadmium, Total	ND	0.10	ug/l	1	01/09/17 11:49	
Chromium, Dissolved	**0.67**	0.20	ug/l	1	01/09/17 11:45	
Chromium, Total	**1.1**	0.20	ug/l	1	01/09/17 11:49	
Copper, Dissolved	**11**	0.50	ug/l	1	01/09/17 11:45	
Copper, Total	**15**	0.50	ug/l	1	01/09/17 11:49	
Iron, Dissolved	**26**	20	ug/l	1	01/09/17 11:45	
Iron, Total	**290**	20	ug/l	1	01/09/17 11:49	
Lead, Dissolved	**0.24**	0.20	ug/l	1	01/09/17 11:45	
Lead, Total	**1.9**	0.20	ug/l	1	01/09/17 11:49	
Nickel, Dissolved	**1.7**	0.80	ug/l	1	01/09/17 11:45	
Nickel, Total	**2.2**	0.80	ug/l	1	01/09/17 11:49	
Zinc, Dissolved	**30**	5.0	ug/l	1	01/09/17 11:45	
Zinc, Total	**46**	5.0	ug/l	1	01/09/17 11:49	
Microbiological Parameters by Standard Methods						
Method: Enterolert	**Batch ID:** W6L2172	**Prepared:** 12/16/16 09:05				**Analyst:** lil
Enterococcus	**21000**	100	MPN/100ml	100	12/17/16 10:36	
Method: SM 9221B	**Batch ID:** W6L2168	**Prepared:** 12/16/16 08:54				**Analyst:** lil
Total Coliform	**30000**	20	MPN/100ml	10	12/20/16 18:09	
Method: SM 9221E	**Batch ID:** W6L2168	**Prepared:** 12/16/16 08:54				**Analyst:** lil
Fecal Coliform	**13000**	20	MPN/100ml	10	12/19/16 18:29	
Method: SM 9221F	**Batch ID:** W6L2168	**Prepared:** 12/16/16 08:54				**Analyst:** lil
E. coli	**13000**	20	MPN/100ml	10	12/19/16 18:29	
Semivolatile Organics - Low Level by Tandem GC/MS/MS						
Method: GC/MS/MS	**Batch ID:** W6L2194	**Prepared:** 12/22/16 09:32				**Analyst:** EFC
Acenaphthene	ND	25	ng/l	1	12/28/16 19:33	M-02
Acenaphthylene	ND	25	ng/l	1	12/28/16 19:33	M-02
Anthracene	ND	25	ng/l	1	12/28/16 19:33	M-02
Benzo (a) anthracene	ND	25	ng/l	1	12/28/16 19:33	M-02
Benzo (a) pyrene	ND	25	ng/l	1	12/28/16 19:33	M-02

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01/14/2017 09:36

Sample Results

(Continued)

Sample: Outfall #7 (SG)
6L16009-01 (Water)

Sampled: 12/16/16 1:10 by ES/ RS

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)							
Benzo (b) fluoranthene	ND		25	ng/l	1	12/28/16 19:33	M-02
Benzo (g,h,i) perylene	ND		25	ng/l	1	12/28/16 19:33	M-02
Benzo (k) fluoranthene	ND		25	ng/l	1	12/28/16 19:33	M-02
Chrysene	ND		25	ng/l	1	12/28/16 19:33	M-02
Dibenzo (a,h) anthracene	ND		25	ng/l	1	12/28/16 19:33	M-02
Fluoranthene	ND		25	ng/l	1	12/28/16 19:33	M-02
Fluorene	ND		25	ng/l	1	12/28/16 19:33	M-02
Indeno (1,2,3-cd) pyrene	ND		25	ng/l	1	12/28/16 19:33	M-02
Naphthalene	**25**		25	ng/l	1	12/28/16 19:33	M-02
Phenanthrene	**44**		25	ng/l	1	12/28/16 19:33	M-02
Pyrene	ND		25	ng/l	1	12/28/16 19:33	M-02
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*113%*	*Conc: 564*	*50-150*			*12/28/16 19:33*	*M-02*
Perylene-d12	*99%*	*Conc: 497*	*50-150*			*12/28/16 19:33*	*M-02*

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Reported:
01/14/2017 09:36

Sample Results

(Continued)

Sample: LL Hg Field Blank
6L16009-02 (Water)

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

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L2537	**Prepared:** 12/16/16 16:39				**Analyst:** gza
Mercury, Total	ND	0.50	ng/l	1	12/29/16 14:19	

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Reported: 01/14/2017 09:36

Sample Results

(Continued)

Sample: Outfall #6 (LL)
6L16009-03 (Water)

Sampled: 12/16/16 2:20 by ES/ RS

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.0						
Method: EPA 300.0	**Batch ID:** W7A1282	**Prepared:** 01/04/17 09:18				**Analyst:** jan
Chloride, Total	**4.5**	0.50	mg/l	1	01/04/17 15:22	
Sulfate as SO4	**11**	0.50	mg/l	1	01/04/17 15:22	
Chlorinated Herbicides						
Method: EPA 515.3	**Batch ID:** W6L1945	**Prepared:** 12/19/16 11:10				**Analyst:** rmr
2,4,5-T	ND	0.20	ug/l	1	12/30/16 19:45	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	12/30/16 19:45	
2,4-D	ND	0.40	ug/l	1	12/30/16 19:45	
2,4-DB	ND	2.0	ug/l	1	12/30/16 19:45	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/30/16 19:45	
Acifluorfen	ND	0.40	ug/l	1	12/30/16 19:45	
Bentazon	ND	2.0	ug/l	1	12/30/16 19:45	
Dalapon	ND	0.40	ug/l	1	12/30/16 19:45	
DCPA	ND	0.10	ug/l	1	12/30/16 19:45	
Dicamba	ND	0.60	ug/l	1	12/30/16 19:45	
Dichloroprop	ND	0.30	ug/l	1	12/30/16 19:45	
Dinoseb	ND	0.40	ug/l	1	12/30/16 19:45	
Pentachlorophenol	**0.77**	0.20	ug/l	1	12/30/16 19:45	
Picloram	ND	0.60	ug/l	1	12/30/16 19:45	
Surrogate(s)						
2,4-DCAA	*103%*	*Conc: 10.3*	*70-130*		*12/30/16 19:45*	
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: ASTM D7511	**Batch ID:** W6L2378	**Prepared:** 12/27/16 10:25				**Analyst:** mbc
Cyanide, Total	ND	2.0	ug/l	1	12/27/16 15:43	
Method: EPA 160.4	**Batch ID:** W6L2146	**Prepared:** 12/21/16 15:54				**Analyst:** ajk
Volatile Suspended Solids	**5.0**	5.0	mg/l	1	12/21/16 17:00	
Method: EPA 180.1	**Batch ID:** W6L1887	**Prepared:** 12/17/16 11:04				**Analyst:** dmn
Turbidity	**6.0**	0.10	NTU	1	12/17/16 14:46	
Method: EPA 350.1	**Batch ID:** W6L2662	**Prepared:** 12/31/16 11:03				**Analyst:** mnq
Ammonia as N	**1.0**	0.10	mg/l	1	01/03/17 16:43	
Method: EPA 351.2	**Batch ID:** W6L2411	**Prepared:** 12/27/16 14:33				**Analyst:** ymt
TKN	**3.1**	0.10	mg/l	1	12/29/16 16:53	
Method: EPA 353.2	**Batch ID:** W6L2006	**Prepared:** 12/20/16 09:12				**Analyst:** AJK
NO2+NO3 as N	**1500**	100	ug/l	1	12/20/16 11:26	
Method: EPA 365.1	**Batch ID:** W6L1970	**Prepared:** 12/19/16 14:05				**Analyst:** nat
Phosphorus as P, Total	**0.51**	0.040	mg/l	2	12/22/16 12:54	M-06
Method: EPA 365.3	**Batch ID:** W6L2346	**Prepared:** 12/24/16 09:41				**Analyst:** dmn
Phosphorus, Dissolved	**0.43**	0.010	mg/l	1	12/30/16 12:42	

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Sample Results

(Continued)

Sample: Outfall #6 (LL)
6L16009-03 (Water)

Sampled: 12/16/16 2:20 by ES/ RS

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 410.4	**Batch ID:** W6L2477	**Prepared:** 12/28/16 13:45				**Analyst:** mnq
Chemical Oxygen Demand	**60**	5.0	mg/l	1	12/31/16 14:16	
Method: EPA 420.4	**Batch ID:** W6L2004	**Prepared:** 12/20/16 09:09				**Analyst:** AJK
Phenolics	ND	0.010	mg/l	1	12/28/16 11:05	
Method: SM 2320B	**Batch ID:** W6L2381	**Prepared:** 12/27/16 11:02				**Analyst:** dmn
Alkalinity as CaCO3	**32**	2.0	mg/l	1	12/28/16 13:30	
Method: SM 2510B	**Batch ID:** W6L2026	**Prepared:** 12/20/16 11:12				**Analyst:** dmn
Specific Conductance (EC)	**110**	2.0	umhos/cm	1	12/20/16 14:23	
Method: SM 2540C	**Batch ID:** W6L1905	**Prepared:** 12/18/16 08:20				**Analyst:** ymt
Total Dissolved Solids	**78**	10	mg/l	1	12/20/16 19:20	
Method: SM 2540D	**Batch ID:** W6L2145	**Prepared:** 12/21/16 15:56				**Analyst:** ajk
Total Suspended Solids	**11**	5	mg/l	1	12/21/16 17:00	
Method: SM 4500O-G	**Batch ID:** W6L1859	**Prepared:** 12/16/16 17:03				**Analyst:** mnq
Dissolved Oxygen	**7.85**	1.00	mg/l	1	12/16/16 17:53	*
Method: SM 5210B	**Batch ID:** W6L1835	**Prepared:** 12/16/16 12:44				**Analyst:** mnq
Biochemical Oxygen Demand	**9.2**	2.0	mg/l	1	12/21/16 18:12	
Method: SM 5310C	**Batch ID:** W6L2133	**Prepared:** 12/21/16 12:36				**Analyst:** jlp
Total Organic Carbon (TOC)	**10**	1.5	mg/l	5	12/21/16 15:27	
Method: SM 5540C	**Batch ID:** W6L1880	**Prepared:** 12/17/16 09:04				**Analyst:** nat
MBAS	**0.46**	0.10	mg/l	2	12/17/16 13:26	
Hexavalent Chromium by IC						
Method: EPA 218.6	**Batch ID:** W6L2448	**Prepared:** 12/27/16 19:13				**Analyst:** blg
Chromium 6+	**0.18**	0.020	ug/l	1	12/28/16 08:00	
Method: EPA 218.6	**Batch ID:** W6L2644	**Prepared:** 12/30/16 00:00				**Analyst:** blg
Chromium 6+, Dissolved	**0.14**	0.020	ug/l	1	12/30/16 00:30	
Hydrocarbons by EPA 8015D						
Method: EPA 8015D	**Batch ID:** W6L1924	**Prepared:** 12/19/16 09:35				**Analyst:** cam
Diesel Range Organics	**0.97**	0.10	mg/l	1	12/22/16 23:53	
Oil Range Organics	**1.8**	0.50	mg/l	1	12/22/16 23:53	
Surrogate(s)						
n-Tetracosane	*104%*	*Conc: 0.260*	*64-155*		*12/22/16 23:53*	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L2537	**Prepared:** 12/16/16 16:39				**Analyst:** gza
Mercury, Dissolved	**15**	0.50	ng/l	1	12/29/16 14:19	
Mercury, Total	**23**	0.50	ng/l	1	12/29/16 14:19	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	**Batch ID:** [CALC]	**Prepared:** 12/29/16 17:22				**Analyst:** JCK
Calcium Hardness as CaCO3	**29.4**	0.250	mg/l	1	01/04/17 17:02	
Method: EPA 200.7	**Batch ID:** W6L2594	**Prepared:** 12/29/16 17:22				**Analyst:** JCK

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Project Manager: Edmond G. Suher

Reported: 01/14/2017 09:36

Sample Results

(Continued)

Sample: Outfall #6 (LL)
6L16009-03 (Water)

Sampled: 12/16/16 2:20 by ES/ RS
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Calcium, Total	**11.8**	0.100	mg/l	1	01/04/17 17:02	
Method: EPA 200.8	**Batch ID:** W6L2591	**Prepared:** 12/29/16 17:07				**Analyst:** rrl
Aluminum, Dissolved	**11**	5.0	ug/l	1	01/09/17 12:06	
Aluminum, Total	**700**	5.0	ug/l	1	01/09/17 12:10	
Antimony, Dissolved	**1.2**	0.50	ug/l	1	01/09/17 12:06	
Antimony, Total	**1.9**	0.50	ug/l	1	01/09/17 12:10	
Arsenic, Dissolved	**0.63**	0.40	ug/l	1	01/09/17 12:06	
Arsenic, Total	**0.98**	0.40	ug/l	1	01/09/17 12:10	
Cadmium, Dissolved	**0.13**	0.10	ug/l	1	01/09/17 12:06	
Cadmium, Total	**0.36**	0.10	ug/l	1	01/09/17 12:10	
Chromium, Dissolved	**0.32**	0.20	ug/l	1	01/09/17 12:06	
Chromium, Total	**2.2**	0.20	ug/l	1	01/09/17 12:10	
Copper, Dissolved	**13**	0.50	ug/l	1	01/09/17 12:06	
Copper, Total	**25**	0.50	ug/l	1	01/09/17 12:10	
Iron, Dissolved	ND	20	ug/l	1	01/09/17 12:06	
Iron, Total	**1100**	20	ug/l	1	01/09/17 12:10	
Lead, Dissolved	**0.21**	0.20	ug/l	1	01/09/17 12:06	
Lead, Total	**11**	0.20	ug/l	1	01/09/17 12:10	
Nickel, Dissolved	**2.3**	0.80	ug/l	1	01/09/17 12:06	
Nickel, Total	**4.0**	0.80	ug/l	1	01/09/17 12:10	
Zinc, Dissolved	**120**	5.0	ug/l	1	01/09/17 12:06	
Zinc, Total	**240**	5.0	ug/l	1	01/09/17 12:10	
Microbiological Parameters by Standard Methods						
Method: Enterolert	**Batch ID:** W6L2172	**Prepared:** 12/16/16 09:19				**Analyst:** lil
Enterococcus	**82000**	100	MPN/100ml	100	12/17/16 10:36	
Method: SM 9221B	**Batch ID:** W6L2168	**Prepared:** 12/16/16 09:12				**Analyst:** lil
Total Coliform	**90000**	20	MPN/100ml	10	12/20/16 18:09	
Method: SM 9221E	**Batch ID:** W6L2168	**Prepared:** 12/16/16 09:12				**Analyst:** lil
Fecal Coliform	**90000**	20	MPN/100ml	10	12/19/16 18:29	
Method: SM 9221F	**Batch ID:** W6L2168	**Prepared:** 12/16/16 09:12				**Analyst:** lil
E. coli	**90000**	20	MPN/100ml	10	12/19/16 18:29	
Semivolatile Organics - Low Level by Tandem GC/MS/MS						
Method: GC/MS/MS	**Batch ID:** W6L2194	**Prepared:** 12/22/16 09:32				**Analyst:** EFC
Acenaphthene	ND	25	ng/l	1	12/28/16 20:07	M-02
Acenaphthylene	ND	25	ng/l	1	12/28/16 20:07	M-02
Anthracene	ND	25	ng/l	1	12/28/16 20:07	M-02
Benzo (a) anthracene	ND	25	ng/l	1	12/28/16 20:07	M-02
Benzo (a) pyrene	ND	25	ng/l	1	12/28/16 20:07	M-02

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Sample Results

(Continued)

Sample: Outfall #6 (LL)
6L16009-03 (Water)

Sampled: 12/16/16 2:20 by ES/ RS

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)							
Benzo (b) fluoranthene	ND		25	ng/l	1	12/28/16 20:07	M-02
Benzo (g,h,i) perylene	ND		25	ng/l	1	12/28/16 20:07	M-02
Benzo (k) fluoranthene	ND		25	ng/l	1	12/28/16 20:07	M-02
Chrysene	ND		25	ng/l	1	12/28/16 20:07	M-02
Dibenzo (a,h) anthracene	ND		25	ng/l	1	12/28/16 20:07	M-02
Fluoranthene	ND		25	ng/l	1	12/28/16 20:07	M-02
Fluorene	ND		25	ng/l	1	12/28/16 20:07	M-02
Indeno (1,2,3-cd) pyrene	ND		25	ng/l	1	12/28/16 20:07	M-02
Naphthalene	ND		25	ng/l	1	12/28/16 20:07	M-02
Phenanthrene	**36**		25	ng/l	1	12/28/16 20:07	M-02
Pyrene	ND		25	ng/l	1	12/28/16 20:07	M-02
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*27%*	*Conc: 137*	*50-150*			*12/28/16 20:07*	*M-02, S-GC*
Perylene-d12	*105%*	*Conc: 525*	*50-150*			*12/28/16 20:07*	*M-02*

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01/14/2017 09:36

Sample Results

(Continued)

Sample: LL Hg Field Blank
6L16009-04 (Water)

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

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L2537	**Prepared:** 12/16/16 16:39				**Analyst:** gza
Mercury, Total	ND	0.50	ng/l	1	12/29/16 14:19	

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Reported: 01/14/2017 09:36

Sample Results

(Continued)

Sample: Outfall #5 (RH)
6L16009-05 (Water)

Sampled: 12/16/16 3:15 by ES/ RS

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.0						
Method: EPA 300.0	**Batch ID:** W7A1282	**Prepared:** 01/04/17 09:18				**Analyst:** jan
Chloride, Total	**1.8**	0.50	mg/l	1	01/04/17 15:22	
Sulfate as SO4	**2.2**	0.50	mg/l	1	01/04/17 15:22	
Chlorinated Herbicides						
Method: EPA 515.3	**Batch ID:** W6L1945	**Prepared:** 12/19/16 11:10				**Analyst:** rmr
2,4,5-T	ND	0.20	ug/l	1	12/30/16 20:21	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	12/30/16 20:21	
2,4-D	ND	0.40	ug/l	1	12/30/16 20:21	
2,4-DB	ND	2.0	ug/l	1	12/30/16 20:21	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/30/16 20:21	
Acifluorfen	ND	0.40	ug/l	1	12/30/16 20:21	
Bentazon	ND	2.0	ug/l	1	12/30/16 20:21	
Dalapon	ND	0.40	ug/l	1	12/30/16 20:21	
DCPA	ND	0.10	ug/l	1	12/30/16 20:21	
Dicamba	ND	0.60	ug/l	1	12/30/16 20:21	
Dichloroprop	ND	0.30	ug/l	1	12/30/16 20:21	
Dinoseb	ND	0.40	ug/l	1	12/30/16 20:21	
Pentachlorophenol	**0.42**	0.20	ug/l	1	12/30/16 20:21	
Picloram	ND	0.60	ug/l	1	12/30/16 20:21	
Surrogate(s)						
2,4-DCAA	*103%*	*Conc: 10.3*	*70-130*		*12/30/16 20:21*	
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: ASTM D7511	**Batch ID:** W6L2378	**Prepared:** 12/27/16 10:25				**Analyst:** mbc
Cyanide, Total	ND	2.0	ug/l	1	12/27/16 15:43	
Method: EPA 160.4	**Batch ID:** W6L2146	**Prepared:** 12/21/16 15:54				**Analyst:** ajk
Volatile Suspended Solids	**11**	5.0	mg/l	1	12/21/16 17:00	
Method: EPA 180.1	**Batch ID:** W6L1887	**Prepared:** 12/17/16 11:04				**Analyst:** dmn
Turbidity	**13**	0.10	NTU	1	12/17/16 14:46	
Method: EPA 350.1	**Batch ID:** W6L2662	**Prepared:** 12/31/16 11:03				**Analyst:** mnq
Ammonia as N	**0.45**	0.10	mg/l	1	01/03/17 16:43	
Method: EPA 351.2	**Batch ID:** W6L2411	**Prepared:** 12/27/16 14:33				**Analyst:** ymt
TKN	**1.1**	0.10	mg/l	1	12/29/16 16:53	
Method: EPA 353.2	**Batch ID:** W6L2006	**Prepared:** 12/20/16 09:12				**Analyst:** AJK
NO2+NO3 as N	**560**	100	ug/l	1	12/20/16 11:33	
Method: EPA 365.1	**Batch ID:** W6L1970	**Prepared:** 12/19/16 14:05				**Analyst:** nat
Phosphorus as P, Total	**0.21**	0.020	mg/l	2	12/22/16 12:36	
Method: EPA 365.3	**Batch ID:** W6L2346	**Prepared:** 12/24/16 09:41				**Analyst:** dmn
Phosphorus, Dissolved	**0.15**	0.010	mg/l	1	12/30/16 12:42	

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Sample Results

(Continued)

Sample: Outfall #5 (RH)

6L16009-05 (Water)

Sampled: 12/16/16 3:15 by ES/ RS

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 410.4	**Batch ID:** W6L2477	**Prepared:** 12/28/16 13:45				**Analyst:** mnq
Chemical Oxygen Demand	ND	5.0	mg/l	1	12/31/16 14:16	
Method: EPA 420.4	**Batch ID:** W6L2004	**Prepared:** 12/20/16 09:09				**Analyst:** AJK
Phenolics	**0.015**	0.010	mg/l	1	12/28/16 11:07	
Method: SM 2320B	**Batch ID:** W6L2381	**Prepared:** 12/27/16 11:02				**Analyst:** dmn
Alkalinity as CaCO3	**16**	2.0	mg/l	1	12/28/16 13:30	
Method: SM 2510B	**Batch ID:** W6L2026	**Prepared:** 12/20/16 11:12				**Analyst:** dmn
Specific Conductance (EC)	**50**	2.0	umhos/cm	1	12/20/16 14:23	
Method: SM 2540C	**Batch ID:** W6L1905	**Prepared:** 12/18/16 08:20				**Analyst:** ymt
Total Dissolved Solids	**37**	10	mg/l	1	12/20/16 19:20	
Method: SM 2540D	**Batch ID:** W6L2145	**Prepared:** 12/21/16 15:56				**Analyst:** ajk
Total Suspended Solids	**27**	5	mg/l	1	12/21/16 17:00	
Method: SM 4500O-G	**Batch ID:** W6L1859	**Prepared:** 12/16/16 17:03				**Analyst:** mnq
Dissolved Oxygen	**8.89**	1.00	mg/l	1	12/16/16 17:53	*
Method: SM 5210B	**Batch ID:** W6L1835	**Prepared:** 12/16/16 12:44				**Analyst:** mnq
Biochemical Oxygen Demand	**9.9**	2.0	mg/l	1	12/21/16 18:12	
Method: SM 5310C	**Batch ID:** W6L2133	**Prepared:** 12/21/16 12:36				**Analyst:** jlp
Total Organic Carbon (TOC)	**7.3**	0.30	mg/l	1	12/21/16 15:27	
Method: SM 5540C	**Batch ID:** W6L1880	**Prepared:** 12/17/16 09:04				**Analyst:** nat
MBAS	**0.20**	0.050	mg/l	1	12/17/16 13:26	
Hexavalent Chromium by IC						
Method: EPA 218.6	**Batch ID:** W6L2448	**Prepared:** 12/27/16 19:13				**Analyst:** blg
Chromium 6+	**0.52**	0.020	ug/l	1	12/28/16 08:00	
Method: EPA 218.6	**Batch ID:** W6L2644	**Prepared:** 12/30/16 00:00				**Analyst:** blg
Chromium 6+, Dissolved	**0.51**	0.020	ug/l	1	12/30/16 00:30	
Hydrocarbons by EPA 8015D						
Method: EPA 8015D	**Batch ID:** W6L1924	**Prepared:** 12/19/16 09:35				**Analyst:** cam
Diesel Range Organics	**0.85**	0.10	mg/l	1	12/23/16 00:28	
Oil Range Organics	**1.9**	0.50	mg/l	1	12/23/16 00:28	
Surrogate(s)						
n-Tetracosane	*103%*	*Conc: 0.257*	*64-155*		*12/23/16 00:28*	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L2537	**Prepared:** 12/16/16 16:39				**Analyst:** gza
Mercury, Dissolved	**12**	0.50	ng/l	1	12/29/16 14:19	
Mercury, Total	**19**	0.50	ng/l	1	12/29/16 14:19	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	**Batch ID:** [CALC]	**Prepared:** 12/29/16 17:22				**Analyst:** JCK
Calcium Hardness as CaCO3	**14.5**	0.250	mg/l	1	01/04/17 17:05	
Method: EPA 200.7	**Batch ID:** W6L2594	**Prepared:** 12/29/16 17:22				**Analyst:** JCK

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Sample Results

(Continued)

Sample: Outfall #5 (RH)
6L16009-05 (Water)

Sampled: 12/16/16 3:15 by ES/ RS
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Calcium, Total	**5.81**	0.100	mg/l	1	01/04/17 17:05	
Method: EPA 200.8	**Batch ID:** W6L2591	**Prepared:** 12/29/16 17:07				**Analyst:** rrl
Aluminum, Dissolved	**33**	5.0	ug/l	1	01/09/17 12:14	
Aluminum, Total	**700**	5.0	ug/l	1	01/09/17 12:52	
Antimony, Dissolved	**1.6**	0.50	ug/l	1	01/09/17 12:14	
Antimony, Total	**2.8**	0.50	ug/l	1	01/09/17 12:52	
Arsenic, Dissolved	**0.58**	0.40	ug/l	1	01/09/17 12:14	
Arsenic, Total	**0.84**	0.40	ug/l	1	01/09/17 12:52	
Cadmium, Dissolved	ND	0.10	ug/l	1	01/09/17 12:14	
Cadmium, Total	**0.10**	0.10	ug/l	1	01/09/17 12:52	
Chromium, Dissolved	**0.79**	0.20	ug/l	1	01/09/17 12:14	
Chromium, Total	**2.1**	0.20	ug/l	1	01/09/17 12:52	
Copper, Dissolved	**13**	0.50	ug/l	1	01/09/17 12:14	
Copper, Total	**25**	0.50	ug/l	1	01/09/17 12:52	
Iron, Dissolved	**33**	20	ug/l	1	01/09/17 12:14	
Iron, Total	**990**	20	ug/l	1	01/09/17 12:52	
Lead, Dissolved	**0.80**	0.20	ug/l	1	01/09/17 12:14	
Lead, Total	**7.5**	0.20	ug/l	1	01/09/17 12:52	
Nickel, Dissolved	**1.4**	0.80	ug/l	1	01/09/17 12:14	
Nickel, Total	**3.1**	0.80	ug/l	1	01/09/17 12:52	
Zinc, Dissolved	**59**	5.0	ug/l	1	01/09/17 12:14	
Zinc, Total	**120**	5.0	ug/l	1	01/09/17 12:52	
Microbiological Parameters by Standard Methods						
Method: Enterolert	**Batch ID:** W6L2172	**Prepared:** 12/16/16 09:42				**Analyst:** lil
Enterococcus	**20000**	100	MPN/100ml	100	12/17/16 10:36	
Method: SM 9221B	**Batch ID:** W6L2168	**Prepared:** 12/16/16 09:28				**Analyst:** lil
Total Coliform	**30000**	20	MPN/100ml	10	12/20/16 18:09	
Method: SM 9221E	**Batch ID:** W6L2168	**Prepared:** 12/16/16 09:28				**Analyst:** lil
Fecal Coliform	**13000**	20	MPN/100ml	10	12/19/16 18:29	
Method: SM 9221F	**Batch ID:** W6L2168	**Prepared:** 12/16/16 09:28				**Analyst:** lil
E. coli	**13000**	20	MPN/100ml	10	12/19/16 18:29	
Semivolatile Organics - Low Level by Tandem GC/MS/MS						
Method: GC/MS/MS	**Batch ID:** W6L2194	**Prepared:** 12/22/16 09:32				**Analyst:** EFC
Acenaphthene	ND	25	ng/l	1	12/28/16 20:41	M-02
Acenaphthylene	ND	25	ng/l	1	12/28/16 20:41	M-02
Anthracene	ND	25	ng/l	1	12/28/16 20:41	M-02
Benzo (a) anthracene	ND	25	ng/l	1	12/28/16 20:41	M-02
Benzo (a) pyrene	ND	25	ng/l	1	12/28/16 20:41	M-02

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Sample Results

(Continued)

Sample: Outfall #5 (RH)
6L16009-05 (Water)

Sampled: 12/16/16 3:15 by ES/ RS

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)							
Benzo (b) fluoranthene	ND		25	ng/l	1	12/28/16 20:41	M-02
Benzo (g,h,i) perylene	ND		25	ng/l	1	12/28/16 20:41	M-02
Benzo (k) fluoranthene	ND		25	ng/l	1	12/28/16 20:41	M-02
Chrysene	ND		25	ng/l	1	12/28/16 20:41	M-02
Dibenzo (a,h) anthracene	ND		25	ng/l	1	12/28/16 20:41	M-02
Fluoranthene	ND		25	ng/l	1	12/28/16 20:41	M-02
Fluorene	ND		25	ng/l	1	12/28/16 20:41	M-02
Indeno (1,2,3-cd) pyrene	ND		25	ng/l	1	12/28/16 20:41	M-02
Naphthalene	**41**		25	ng/l	1	12/28/16 20:41	M-02
Phenanthrene	**32**		25	ng/l	1	12/28/16 20:41	M-02
Pyrene	ND		25	ng/l	1	12/28/16 20:41	M-02
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*75%*	*Conc: 375*	*50-150*			*12/28/16 20:41*	*M-02*
Perylene-d12	*109%*	*Conc: 543*	*50-150*			*12/28/16 20:41*	*M-02*

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Project Manager: Edmond G. Suher

Reported:
01/14/2017 09:36

Sample Results

(Continued)

Sample: LL Hg Field Blank
6L16009-06 (Water)

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

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L2537	**Prepared:** 12/16/16 16:39				**Analyst:** gza
Mercury, Total	ND	0.50	ng/l	1	12/29/16 14:19	

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Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1282 - EPA 300.0										
Blank (W7A1282-BLK1)				**Prepared & Analyzed: 01/04/17**						
Chloride, Total	ND	0.50	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W7A1282-BS1)				**Prepared & Analyzed: 01/04/17**						
Chloride, Total	5.36	0.50	mg/l	5.06		106	90-110			
Sulfate as SO4	5.40	0.50	mg/l	5.01		108	90-110			
Matrix Spike (W7A1282-MS1)	**Source: 6L17031-03**			**Prepared & Analyzed: 01/04/17**						
Chloride, Total	60.3	5.0	mg/l	50.6	8.54	102	80-118			
Sulfate as SO4	59.5	5.0	mg/l	50.1	7.49	104	80-111			
Matrix Spike (W7A1282-MS2)	**Source: 6L21001-01**			**Prepared & Analyzed: 01/04/17**						
Chloride, Total	58.1	5.0	mg/l	50.6	4.68	106	80-118			
Sulfate as SO4	57.8	5.0	mg/l	50.1	4.86	106	80-111			
Matrix Spike Dup (W7A1282-MSD1)	**Source: 6L17031-03**			**Prepared & Analyzed: 01/04/17**						
Chloride, Total	60.3	5.0	mg/l	50.6	8.54	102	80-118	0.02	20	
Sulfate as SO4	60.0	5.0	mg/l	50.1	7.49	105	80-111	0.8	20	
Matrix Spike Dup (W7A1282-MSD2)	**Source: 6L21001-01**			**Prepared & Analyzed: 01/04/17**						
Chloride, Total	58.0	5.0	mg/l	50.6	4.68	105	80-118	0.1	20	
Sulfate as SO4	58.1	5.0	mg/l	50.1	4.86	106	80-111	0.6	20	

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Quality Control Results

(Continued)

Chlorinated Herbicides

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1945 - EPA 515.3										
Blank (W6L1945-BLK1)				**Prepared: 12/19/16 Analyzed: 12/30/16**						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
Surrogate(s)										
2,4-DCAA		*9.82*	*ug/l*	*10.0*		*98*	*70-130*			
LCS (W6L1945-BS1)				**Prepared: 12/19/16 Analyzed: 12/30/16**						
2,4,5-T	4.02	0.20	ug/l	4.00		101	70-130			
2,4,5-TP (Silvex)	4.12	0.20	ug/l	4.00		103	70-130			
2,4-D	8.29	0.40	ug/l	8.00		104	70-130			
2,4-DB	15.4	2.0	ug/l	16.0		96	70-130			
3,5-Dichlorobenzoic acid	8.13	1.0	ug/l	8.00		102	70-130			
Acifluorfen	4.18	0.40	ug/l	4.00		104	70-130			
Bentazon	16.8	2.0	ug/l	16.0		105	70-130			
Dalapon	8.59	0.40	ug/l	8.00		107	70-130			
DCPA	3.96	0.10	ug/l	4.00		99	70-130			
Dicamba	8.03	0.60	ug/l	8.00		100	70-130			
Dichloroprop	8.24	0.30	ug/l	8.00		103	70-130			
Dinoseb	4.08	0.40	ug/l	4.00		102	70-130			
Pentachlorophenol	3.97	0.20	ug/l	4.00		99	70-130			
Picloram	4.16	0.60	ug/l	4.00		104	70-130			
Surrogate(s)										
2,4-DCAA		*10.4*	*ug/l*	*10.0*		*104*	*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: W6L1945 - EPA 515.3 (Continued)										
Matrix Spike (W6L1945-MS1)	**Source: 6L15017-01**			**Prepared: 12/19/16**	**Analyzed: 12/30/16**					
2,4,5-T	4.05	0.20	ug/l	4.00	ND	101	70-130			
2,4,5-TP (Silvex)	4.33	0.20	ug/l	4.00	ND	108	70-130			
2,4-D	8.26	0.40	ug/l	8.00	ND	103	70-130			
2,4-DB	15.2	2.0	ug/l	16.0	ND	95	70-130			
3,5-Dichlorobenzoic acid	8.28	1.0	ug/l	8.00	ND	103	70-130			
Acifluorfen	4.14	0.40	ug/l	4.00	ND	104	70-130			
Bentazon	16.7	2.0	ug/l	16.0	ND	105	70-130			
Dalapon	8.54	0.40	ug/l	8.00	ND	107	70-130			
DCPA	4.02	0.10	ug/l	4.00	ND	101	70-130			
Dicamba	8.22	0.60	ug/l	8.00	ND	103	70-130			
Dichloroprop	8.45	0.30	ug/l	8.00	ND	106	70-130			
Dinoseb	4.04	0.40	ug/l	4.00	ND	101	70-130			
Pentachlorophenol	4.06	0.20	ug/l	4.00	ND	101	70-130			
Picloram	4.22	0.60	ug/l	4.00	ND	106	70-130			
Surrogate(s)										
2,4-DCAA	*10.4*		*ug/l*	*10.0*		*104*	*70-130*			
Matrix Spike (W6L1945-MS2)	**Source: 6L16009-01**			**Prepared: 12/19/16**	**Analyzed: 12/30/16**					
2,4,5-T	3.81	0.20	ug/l	4.00	ND	95	70-130			
2,4,5-TP (Silvex)	4.02	0.20	ug/l	4.00	ND	100	70-130			
2,4-D	8.68	0.40	ug/l	8.00	ND	108	70-130			
2,4-DB	15.5	2.0	ug/l	16.0	ND	97	70-130			
3,5-Dichlorobenzoic acid	8.41	1.0	ug/l	8.00	ND	105	70-130			
Acifluorfen	4.23	0.40	ug/l	4.00	ND	106	70-130			
Bentazon	16.6	2.0	ug/l	16.0	ND	104	70-130			
Dalapon	8.18	0.40	ug/l	8.00	ND	102	70-130			
DCPA	3.93	0.10	ug/l	4.00	ND	98	70-130			
Dicamba	7.93	0.60	ug/l	8.00	ND	99	70-130			
Dichloroprop	8.89	0.30	ug/l	8.00	ND	111	70-130			
Dinoseb	4.80	0.40	ug/l	4.00	ND	120	70-130			
Pentachlorophenol	4.05	0.20	ug/l	4.00	0.291	94	70-130			
Picloram	4.23	0.60	ug/l	4.00	ND	106	70-130			
Surrogate(s)										
2,4-DCAA	*10.3*		*ug/l*	*10.0*		*103*	*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: W6L1945 - EPA 515.3 (Continued)										
Matrix Spike Dup (W6L1945-MSD1)	**Source: 6L15017-01**			**Prepared: 12/19/16**	**Analyzed: 12/30/16**					
2,4,5-T	3.91	0.20	ug/l	4.00	ND	98	70-130	3	30	
2,4,5-TP (Silvex)	4.07	0.20	ug/l	4.00	ND	102	70-130	6	30	
2,4-D	8.16	0.40	ug/l	8.00	ND	102	70-130	1	30	
2,4-DB	15.3	2.0	ug/l	16.0	ND	96	70-130	0.7	30	
3,5-Dichlorobenzoic acid	8.30	1.0	ug/l	8.00	ND	104	70-130	0.3	30	
Acifluorfen	4.16	0.40	ug/l	4.00	ND	104	70-130	0.3	30	
Bentazon	16.4	2.0	ug/l	16.0	ND	103	70-130	2	30	
Dalapon	8.46	0.40	ug/l	8.00	ND	106	70-130	1	30	
DCPA	4.05	0.10	ug/l	4.00	ND	101	70-130	0.5	30	
Dicamba	8.16	0.60	ug/l	8.00	ND	102	70-130	0.7	30	
Dichloroprop	8.38	0.30	ug/l	8.00	ND	105	70-130	0.8	30	
Dinoseb	4.08	0.40	ug/l	4.00	ND	102	70-130	1	30	
Pentachlorophenol	4.07	0.20	ug/l	4.00	ND	102	70-130	0.4	30	
Picloram	4.15	0.60	ug/l	4.00	ND	104	70-130	2	30	
Surrogate(s)										
2,4-DCAA		*10.4*	*ug/l*	*10.0*		*104*	*70-130*			
Matrix Spike Dup (W6L1945-MSD2)	**Source: 6L16009-01**			**Prepared: 12/19/16**	**Analyzed: 12/30/16**					
2,4,5-T	3.92	0.20	ug/l	4.00	ND	98	70-130	3	30	
2,4,5-TP (Silvex)	4.12	0.20	ug/l	4.00	ND	103	70-130	2	30	
2,4-D	8.73	0.40	ug/l	8.00	ND	109	70-130	0.6	30	
2,4-DB	16.0	2.0	ug/l	16.0	ND	100	70-130	3	30	
3,5-Dichlorobenzoic acid	8.46	1.0	ug/l	8.00	ND	106	70-130	0.5	30	
Acifluorfen	4.51	0.40	ug/l	4.00	ND	113	70-130	6	30	
Bentazon	17.2	2.0	ug/l	16.0	ND	108	70-130	4	30	
Dalapon	8.48	0.40	ug/l	8.00	ND	106	70-130	4	30	
DCPA	4.05	0.10	ug/l	4.00	ND	101	70-130	3	30	
Dicamba	7.93	0.60	ug/l	8.00	ND	99	70-130	0.03	30	
Dichloroprop	8.91	0.30	ug/l	8.00	ND	111	70-130	0.2	30	
Dinoseb	4.82	0.40	ug/l	4.00	ND	120	70-130	0.3	30	
Pentachlorophenol	4.09	0.20	ug/l	4.00	0.291	95	70-130	1	30	
Picloram	4.28	0.60	ug/l	4.00	ND	107	70-130	1	30	
Surrogate(s)										
2,4-DCAA		*10.5*	*ug/l*	*10.0*		*105*	*70-130*			

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Quality Control Results

(Continued)

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

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

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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: W6L1887 - EPA 180.1 (Continued)										
LCS (W6L1887-BS1)				**Prepared & Analyzed: 12/17/16**						
Turbidity	7.55	0.10	NTU	7.36		103	90-110			
Duplicate (W6L1887-DUP1)	**Source: 6L16009-01**			**Prepared & Analyzed: 12/17/16**						
Turbidity	8.76	0.10	NTU		8.96			2	10	
Batch: W6L1905 - SM 2540C										
Blank (W6L1905-BLK1)				**Prepared: 12/18/16 Analyzed: 12/20/16**						
Total Dissolved Solids	ND	10	mg/l							
LCS (W6L1905-BS1)				**Prepared: 12/18/16 Analyzed: 12/20/16**						
Total Dissolved Solids	837	10	mg/l	824		102	96-102			
Duplicate (W6L1905-DUP1)	**Source: 6L15004-01**			**Prepared: 12/18/16 Analyzed: 12/20/16**						
Total Dissolved Solids	1720	10	mg/l		1630			5	10	
Duplicate (W6L1905-DUP2)	**Source: 6L16106-01**			**Prepared: 12/18/16 Analyzed: 12/20/16**						
Total Dissolved Solids	960	10	mg/l		944			2	10	
Batch: W6L1970 - EPA 365.1										
Blank (W6L1970-BLK1)				**Prepared: 12/19/16 Analyzed: 12/22/16**						
Phosphorus as P, Total	ND	0.010	mg/l							
LCS (W6L1970-BS1)				**Prepared: 12/19/16 Analyzed: 12/22/16**						
Phosphorus as P, Total	0.0517	0.010	mg/l	0.0500		103	90-110			

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

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

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

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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: W6L2146 - EPA 160.4 (Continued)										
Duplicate (W6L2146-DUP1)	**Source: 6L16061-01**			**Prepared & Analyzed: 12/21/16**						
Volatile Suspended Solids	53	5.0	mg/l		48			10	15	
Duplicate (W6L2146-DUP2)	**Source: 6L16061-09**			**Prepared & Analyzed: 12/21/16**						
Volatile Suspended Solids	27	5.0	mg/l		29			7	15	
Batch: W6L2346 - EPA 365.3										
Blank (W6L2346-BLK1)				**Prepared: 12/24/16 Analyzed: 12/30/16**						
Phosphorus, Dissolved	ND	0.010	mg/l							
LCS (W6L2346-BS1)				**Prepared: 12/24/16 Analyzed: 12/30/16**						
Phosphorus, Dissolved	0.205	0.010	mg/l	0.200		102	90-110			
Matrix Spike (W6L2346-MS1)	**Source: 6L16010-05**			**Prepared: 12/24/16 Analyzed: 12/30/16**						
Phosphorus, Dissolved	0.261	0.010	mg/l	0.200	0.0551	103	90-110			
Matrix Spike Dup (W6L2346-MSD1)	**Source: 6L16010-05**			**Prepared: 12/24/16 Analyzed: 12/30/16**						
Phosphorus, Dissolved	0.263	0.010	mg/l	0.200	0.0551	104	90-110	0.6	20	
Batch: W6L2378 - ASTM D7511										
Blank (W6L2378-BLK1)				**Prepared & Analyzed: 12/27/16**						
Cyanide, Total	ND	2.0	ug/l							
LCS (W6L2378-BS1)				**Prepared & Analyzed: 12/27/16**						
Cyanide, Total	47.0	2.0	ug/l	50.0		94	84-116			

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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: W6L2378 - ASTM D7511 (Continued)										
LCS Dup (W6L2378-BSD1)				**Prepared & Analyzed: 12/27/16**						
Cyanide, Total	46.9	2.0	ug/l	50.0		94	84-116	0.2	12	
Matrix Spike (W6L2378-MS1)	**Source: 6L16010-05**			**Prepared & Analyzed: 12/27/16**						
Cyanide, Total	50.8	2.0	ug/l	50.0	ND	102	64-136			
Matrix Spike (W6L2378-MS2)	**Source: 6L17005-13**			**Prepared & Analyzed: 12/27/16**						
Cyanide, Total	53.2	2.0	ug/l	50.0	ND	106	64-136			
Matrix Spike Dup (W6L2378-MSD1)	**Source: 6L16010-05**			**Prepared & Analyzed: 12/27/16**						
Cyanide, Total	52.7	2.0	ug/l	50.0	ND	105	64-136	4	47	
Matrix Spike Dup (W6L2378-MSD2)	**Source: 6L17005-13**			**Prepared & Analyzed: 12/27/16**						
Cyanide, Total	53.5	2.0	ug/l	50.0	ND	107	64-136	0.4	47	
Batch: W6L2381 - SM 2320B										
Blank (W6L2381-BLK1)				**Prepared: 12/27/16 Analyzed: 12/28/16**						
Alkalinity as CaCO3	ND	2.0	mg/l							
LCS (W6L2381-BS1)				**Prepared: 12/27/16 Analyzed: 12/28/16**						
Alkalinity as CaCO3	260	2.0	mg/l	250		104	94-108			
Duplicate (W6L2381-DUP1)	**Source: 6L16009-01**			**Prepared: 12/27/16 Analyzed: 12/28/16**						
Alkalinity as CaCO3	25.8	2.0	mg/l		25.8			0	15	
Batch: W6L2411 - EPA 351.2										
Blank (W6L2411-BLK1)				**Prepared: 12/27/16 Analyzed: 12/29/16**						
TKN	ND	0.10	mg/l							

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Quality Control Results (Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2411 - EPA 351.2 (Continued)										
Blank (W6L2411-BLK2)				**Prepared: 12/27/16**	**Analyzed: 12/29/16**					
TKN	ND	0.10	mg/l							
LCS (W6L2411-BS1)				**Prepared: 12/27/16**	**Analyzed: 12/29/16**					
TKN	1.03	0.10	mg/l	1.00		103	90-110			
LCS (W6L2411-BS2)				**Prepared: 12/27/16**	**Analyzed: 12/29/16**					
TKN	1.06	0.10	mg/l	1.00		106	90-110			
Matrix Spike (W6L2411-MS1)	**Source: 6L17031-03**			**Prepared: 12/27/16**	**Analyzed: 12/29/16**					
TKN	2.15	0.10	mg/l	1.00	0.958	119	90-110			MS-01
Matrix Spike (W6L2411-MS2)	**Source: 6L21005-02**			**Prepared: 12/27/16**	**Analyzed: 12/29/16**					
TKN	1.30	0.10	mg/l	1.00	0.263	104	90-110			
Matrix Spike Dup (W6L2411-MSD1)	**Source: 6L17031-03**			**Prepared: 12/27/16**	**Analyzed: 12/29/16**					
TKN	2.04	0.10	mg/l	1.00	0.958	108	90-110	5	10	
Matrix Spike Dup (W6L2411-MSD2)	**Source: 6L21005-02**			**Prepared: 12/27/16**	**Analyzed: 12/29/16**					
TKN	1.26	0.10	mg/l	1.00	0.263	100	90-110	3	10	
Batch: W6L2477 - EPA 410.4										
Blank (W6L2477-BLK1)				**Prepared: 12/28/16**	**Analyzed: 12/31/16**					
Chemical Oxygen Demand	ND	5.0	mg/l							
LCS (W6L2477-BS1)				**Prepared: 12/28/16**	**Analyzed: 12/31/16**					
Chemical Oxygen Demand	108	5.0	mg/l	100		108	90-110			

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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: W6L2477 - EPA 410.4 (Continued)										
Duplicate (W6L2477-DUP1)	**Source: 6L16110-01**			**Prepared: 12/28/16**	**Analyzed: 12/31/16**					
Chemical Oxygen Demand	710	20	mg/l		770			8	15	
Matrix Spike (W6L2477-MS1)	**Source: 6L16009-03**			**Prepared: 12/28/16**	**Analyzed: 12/31/16**					
Chemical Oxygen Demand	261	10	mg/l	200	60.4	100	90-110			
Matrix Spike (W6L2477-MS2)	**Source: 6L16009-05**			**Prepared: 12/28/16**	**Analyzed: 12/31/16**					
Chemical Oxygen Demand	212	10	mg/l	200	4.66	104	90-110			
Matrix Spike Dup (W6L2477-MSD1)	**Source: 6L16009-03**			**Prepared: 12/28/16**	**Analyzed: 12/31/16**					
Chemical Oxygen Demand	259	10	mg/l	200	60.4	99	90-110	1	15	
Matrix Spike Dup (W6L2477-MSD2)	**Source: 6L16009-05**			**Prepared: 12/28/16**	**Analyzed: 12/31/16**					
Chemical Oxygen Demand	209	10	mg/l	200	4.66	102	90-110	2	15	
Batch: W6L2499 - EPA 410.4										
Blank (W6L2499-BLK1)				**Prepared: 12/28/16**	**Analyzed: 01/04/17**					
Chemical Oxygen Demand	ND	5.0	mg/l							
LCS (W6L2499-BS1)				**Prepared: 12/28/16**	**Analyzed: 01/04/17**					
Chemical Oxygen Demand	108	5.0	mg/l	100		108	90-110			
Duplicate (W6L2499-DUP1)	**Source: 6L21083-01**			**Prepared: 12/28/16**	**Analyzed: 01/04/17**					
Chemical Oxygen Demand	575	10	mg/l		584			2	15	
Matrix Spike (W6L2499-MS1)	**Source: 6L28020-01**			**Prepared: 12/28/16**	**Analyzed: 01/04/17**					
Chemical Oxygen Demand	217	10	mg/l	200	17.2	100	90-110			

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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: W6L2499 - EPA 410.4 (Continued)										
Matrix Spike Dup (W6L2499-MSD1)	**Source: 6L28020-01**			**Prepared: 12/28/16**	**Analyzed: 01/04/17**					
Chemical Oxygen Demand	220	10	mg/l	200	17.2	102	90-110	2	15	
Batch: W6L2662 - EPA 350.1										
Blank (W6L2662-BLK1)				**Prepared: 12/31/16**	**Analyzed: 01/03/17**					
Ammonia as N	ND	0.10	mg/l							
Blank (W6L2662-BLK2)				**Prepared: 12/31/16**	**Analyzed: 01/03/17**					
Ammonia as N	ND	0.10	mg/l							
LCS (W6L2662-BS1)				**Prepared: 12/31/16**	**Analyzed: 01/03/17**					
Ammonia as N	0.248	0.10	mg/l	0.250		99	90-110			
LCS (W6L2662-BS2)				**Prepared: 12/31/16**	**Analyzed: 01/03/17**					
Ammonia as N	0.247	0.10	mg/l	0.250		99	90-110			
Matrix Spike (W6L2662-MS1)	**Source: 6L29046-02**			**Prepared: 12/31/16**	**Analyzed: 01/03/17**					
Ammonia as N	0.267	0.10	mg/l	0.250	ND	107	90-110			
Matrix Spike (W6L2662-MS2)	**Source: 6L29046-04**			**Prepared: 12/31/16**	**Analyzed: 01/03/17**					
Ammonia as N	0.263	0.10	mg/l	0.250	ND	105	90-110			
Matrix Spike Dup (W6L2662-MSD1)	**Source: 6L29046-02**			**Prepared: 12/31/16**	**Analyzed: 01/03/17**					
Ammonia as N	0.264	0.10	mg/l	0.250	ND	105	90-110	1	15	
Matrix Spike Dup (W6L2662-MSD2)	**Source: 6L29046-04**			**Prepared: 12/31/16**	**Analyzed: 01/03/17**					
Ammonia as N	0.261	0.10	mg/l	0.250	ND	104	90-110	0.7	15	

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Quality Control Results (Continued)

Hexavalent Chromium by IC

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

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Quality Control Results (Continued)

Hexavalent Chromium by IC (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2644 - EPA 218.6 (Continued)										
Matrix Spike (W6L2644-MS1)	**Source: 6L20118-01**			**Prepared & Analyzed: 12/30/16**						
Chromium 6+, Dissolved	4.99	0.020	ug/l	5.00	ND	100	88-112			
Matrix Spike Dup (W6L2644-MSD1)	**Source: 6L20118-01**			**Prepared & Analyzed: 12/30/16**						
Chromium 6+, Dissolved	4.71	0.020	ug/l	5.00	ND	94	88-112	6	10	

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Quality Control Results (Continued)

Hydrocarbons by EPA 8015D

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1924 - EPA 8015D										
Blank (W6L1924-BLK1)				**Prepared: 12/19/16 Analyzed: 12/22/16**						
Diesel Range Organics	ND	0.10	mg/l							
Oil Range Organics	ND	0.50	mg/l							
Surrogate(s)										
n-Tetracosane		*0.268*	*mg/l*	*0.250*		*107*	*64-155*			
LCS (W6L1924-BS1)				**Prepared: 12/19/16 Analyzed: 12/22/16**						
Diesel Range Organics	0.468	0.10	mg/l	0.500		94	56-136			
Surrogate(s)										
n-Tetracosane		*0.263*	*mg/l*	*0.250*		*105*	*64-155*			
LCS Dup (W6L1924-BSD1)				**Prepared: 12/19/16 Analyzed: 12/22/16**						
Diesel Range Organics	0.568	0.10	mg/l	0.500		114	56-136	19	25	
Surrogate(s)										
n-Tetracosane		*0.269*	*mg/l*	*0.250*		*108*	*64-155*			

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Quality Control Results (Continued)

Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2591 - EPA 200.8										
Blank (W6L2591-BLK1)				**Prepared: 12/29/16 Analyzed: 01/09/17**						
Aluminum, Dissolved	ND	5.0	ug/l							
Aluminum, Total	ND	5.0	ug/l							
Antimony, Dissolved	ND	0.50	ug/l							
Antimony, Total	ND	0.50	ug/l							
Arsenic, Dissolved	ND	0.40	ug/l							
Arsenic, Total	ND	0.40	ug/l							
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							
Zinc, Dissolved	ND	5.0	ug/l							
Zinc, Total	ND	5.0	ug/l							
LCS (W6L2591-BS1)				**Prepared: 12/29/16 Analyzed: 01/09/17**						
Aluminum, Dissolved	54.8	5.0	ug/l	50.0		110	85-115			
Aluminum, Total	54.8	5.0	ug/l	50.0		110	85-115			
Antimony, Dissolved	51.5	0.50	ug/l	50.0		103	85-115			
Antimony, Total	51.5	0.50	ug/l	50.0		103	85-115			
Arsenic, Dissolved	52.3	0.40	ug/l	50.0		105	85-115			
Arsenic, Total	52.3	0.40	ug/l	50.0		105	85-115			
Cadmium, Dissolved	51.9	0.10	ug/l	50.0		104	85-115			
Cadmium, Total	51.9	0.10	ug/l	50.0		104	85-115			
Chromium, Dissolved	51.7	0.20	ug/l	50.0		103	85-115			
Chromium, Total	51.7	0.20	ug/l	50.0		103	85-115			
Copper, Dissolved	53.4	0.50	ug/l	50.0		107	85-115			
Copper, Total	53.4	0.50	ug/l	50.0		107	85-115			
Iron, Dissolved	1090	20	ug/l	1050		104	85-115			
Iron, Total	1090	20	ug/l	1050		104	85-115			
Lead, Dissolved	50.4	0.20	ug/l	50.0		101	85-115			
Lead, Total	50.4	0.20	ug/l	50.0		101	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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2591 - EPA 200.8 (Continued)										
LCS (W6L2591-BS1)				**Prepared: 12/29/16 Analyzed: 01/09/17**						
Nickel, Dissolved	52.5	0.80	ug/l	50.0		105	85-115			
Nickel, Total	52.5	0.80	ug/l	50.0		105	85-115			
Zinc, Dissolved	54.9	5.0	ug/l	50.0		110	85-115			
Zinc, Total	54.9	5.0	ug/l	50.0		110	85-115			
Matrix Spike (W6L2591-MS1)	**Source: 6L16009-01**			**Prepared: 12/29/16 Analyzed: 01/09/17**						
Aluminum, Total	254	5.0	ug/l	50.0	190	127	70-130			
Antimony, Total	52.6	0.50	ug/l	50.0	1.61	102	70-130			
Arsenic, Total	52.4	0.40	ug/l	50.0	0.972	103	70-130			
Cadmium, Total	52.1	0.10	ug/l	50.0	0.0477	104	70-130			
Chromium, Total	52.7	0.20	ug/l	50.0	1.08	103	70-130			
Copper, Total	68.4	0.50	ug/l	50.0	14.6	108	70-130			
Iron, Total	1400	20	ug/l	1050	290	106	70-130			
Lead, Total	52.7	0.20	ug/l	50.0	1.90	102	70-130			
Nickel, Total	54.6	0.80	ug/l	50.0	2.22	105	70-130			
Zinc, Total	101	5.0	ug/l	50.0	46.4	109	70-130			
Matrix Spike (W6L2591-MS2)	**Source: 6L17020-01**			**Prepared: 12/29/16 Analyzed: 01/09/17**						
Aluminum, Total	525	5.0	ug/l	50.0	440	170	70-130			MS-02
Antimony, Total	50.4	0.50	ug/l	50.0	0.449	100	70-130			
Arsenic, Total	51.0	0.40	ug/l	50.0	0.264	102	70-130			
Cadmium, Total	51.0	0.10	ug/l	50.0	0.118	102	70-130			
Chromium, Total	52.0	0.20	ug/l	50.0	0.956	102	70-130			
Copper, Total	60.3	0.50	ug/l	50.0	7.36	106	70-130			
Iron, Total	1650	20	ug/l	1050	530	107	70-130			
Lead, Total	52.0	0.20	ug/l	50.0	2.28	99	70-130			
Nickel, Total	53.4	0.80	ug/l	50.0	1.11	105	70-130			
Zinc, Total	614	5.0	ug/l	50.0	570	89	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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2591 - EPA 200.8 (Continued)										
Matrix Spike Dup (W6L2591-MSD1)	**Source: 6L16009-01**			**Prepared: 12/29/16 Analyzed: 01/09/17**						
Aluminum, Total	264	5.0	ug/l	50.0	190	147	70-130	4	30	MS-02
Antimony, Total	51.9	0.50	ug/l	50.0	1.61	101	70-130	1	30	
Arsenic, Total	53.7	0.40	ug/l	50.0	0.972	106	70-130	2	30	
Cadmium, Total	52.8	0.10	ug/l	50.0	0.0477	106	70-130	1	30	
Chromium, Total	53.5	0.20	ug/l	50.0	1.08	105	70-130	2	30	
Copper, Total	69.5	0.50	ug/l	50.0	14.6	110	70-130	1	30	
Iron, Total	1440	20	ug/l	1050	290	109	70-130	3	30	
Lead, Total	51.6	0.20	ug/l	50.0	1.90	99	70-130	2	30	
Nickel, Total	56.1	0.80	ug/l	50.0	2.22	108	70-130	3	30	
Zinc, Total	102	5.0	ug/l	50.0	46.4	111	70-130	1	30	
Matrix Spike Dup (W6L2591-MSD2)	**Source: 6L17020-01**			**Prepared: 12/29/16 Analyzed: 01/09/17**						
Aluminum, Total	509	5.0	ug/l	50.0	440	139	70-130	3	30	MS-02
Antimony, Total	49.9	0.50	ug/l	50.0	0.449	99	70-130	1	30	
Arsenic, Total	51.1	0.40	ug/l	50.0	0.264	102	70-130	0.2	30	
Cadmium, Total	51.2	0.10	ug/l	50.0	0.118	102	70-130	0.6	30	
Chromium, Total	52.2	0.20	ug/l	50.0	0.956	103	70-130	0.4	30	
Copper, Total	60.5	0.50	ug/l	50.0	7.36	106	70-130	0.3	30	
Iron, Total	1640	20	ug/l	1050	530	106	70-130	0.2	30	
Lead, Total	52.2	0.20	ug/l	50.0	2.28	100	70-130	0.5	30	
Nickel, Total	53.7	0.80	ug/l	50.0	1.11	105	70-130	0.5	30	
Zinc, Total	626	5.0	ug/l	50.0	570	111	70-130	2	30	
Batch: W6L2594 - EPA 200.7										
Blank (W6L2594-BLK1)				**Prepared: 12/29/16 Analyzed: 01/04/17**						
Calcium, Total	ND	0.100	mg/l							

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Quality Control Results (Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2594 - EPA 200.7 (Continued)										
LCS (W6L2594-BS1)				**Prepared: 12/29/16**	**Analyzed: 01/04/17**					
Calcium, Total	43.6	0.100	mg/l	50.0		87	85-115			
Matrix Spike (W6L2594-MS1)	**Source: 6L16009-05**			**Prepared: 12/29/16**	**Analyzed: 01/04/17**					
Calcium, Total	48.6	0.100	mg/l	50.0	5.81	86	70-130			
Matrix Spike Dup (W6L2594-MSD1)	**Source: 6L16009-05**			**Prepared: 12/29/16**	**Analyzed: 01/04/17**					
Calcium, Total	52.4	0.100	mg/l	50.0	5.81	93	70-130	8	30	

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Quality Control Results (Continued)

Mercury - Low Level by CVAFS

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

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Quality Control Results

(Continued)

Microbiological Parameters by Standard Methods

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

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Quality Control Results

(Continued)

Microbiological Parameters by Standard Methods (Continued)

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

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Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2194 - GC/MS/MS										
Blank (W6L2194-BLK1)				**Prepared: 12/22/16 Analyzed: 12/28/16**						
Acenaphthene	ND	5.0	ng/l							
Acenaphthylene	ND	5.0	ng/l							
Anthracene	ND	5.0	ng/l							
Benzo (a) anthracene	ND	5.0	ng/l							
Benzo (a) pyrene	ND	5.0	ng/l							
Benzo (b) fluoranthene	ND	5.0	ng/l							
Benzo (g,h,i) perylene	ND	5.0	ng/l							
Benzo (k) fluoranthene	ND	5.0	ng/l							
Chrysene	ND	5.0	ng/l							
Dibenzo (a,h) anthracene	ND	5.0	ng/l							
Fluoranthene	ND	5.0	ng/l							
Fluorene	ND	5.0	ng/l							
Indeno (1,2,3-cd) pyrene	ND	5.0	ng/l							
Naphthalene	ND	5.0	ng/l							
Phenanthrene	ND	5.0	ng/l							
Pyrene	ND	5.0	ng/l							
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene		*81.0*	*ng/l*	*100*		*81*	*50-150*			
Perylene-d12		*93.9*	*ng/l*	*100*		*94*	*50-150*			
LCS (W6L2194-BS1)				**Prepared: 12/22/16 Analyzed: 12/28/16**						
Acenaphthene	42.3	5.0	ng/l	50.0		85	50-150			
Acenaphthylene	42.2	5.0	ng/l	50.0		84	50-150			
Anthracene	49.4	5.0	ng/l	50.0		99	50-150			
Benzo (a) anthracene	71.0	5.0	ng/l	50.0		142	50-150			
Benzo (a) pyrene	62.1	5.0	ng/l	50.0		124	50-150			
Benzo (b) fluoranthene	54.5	5.0	ng/l	50.0		109	50-150			
Benzo (g,h,i) perylene	48.3	5.0	ng/l	50.0		97	50-150			
Benzo (k) fluoranthene	58.0	5.0	ng/l	50.0		116	50-150			
Chrysene	56.0	5.0	ng/l	50.0		112	50-150			
Dibenzo (a,h) anthracene	50.8	5.0	ng/l	50.0		102	50-150			
Fluoranthene	51.9	5.0	ng/l	50.0		104	50-150			
Fluorene	48.1	5.0	ng/l	50.0		96	50-150			
Indeno (1,2,3-cd) pyrene	50.8	5.0	ng/l	50.0		102	50-150			
Naphthalene	40.5	5.0	ng/l	50.0		81	50-150			
Phenanthrene	47.9	5.0	ng/l	50.0		96	50-150			
Pyrene	54.2	5.0	ng/l	50.0		108	50-150			
Surrogate(s)										

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Quality Control Results (Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L2194 - GC/MS/MS (Continued)										
LCS (W6L2194-BS1)				**Prepared: 12/22/16 Analyzed: 12/28/16**						
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*102*		*ng/l*	*100*		*102*	*50-150*			
Perylene-d12	*95.1*		*ng/l*	*100*		*95*	*50-150*			
LCS Dup (W6L2194-BSD1)				**Prepared: 12/22/16 Analyzed: 12/28/16**						
Acenaphthene	42.6	5.0	ng/l	50.0		85	50-150	0.6	30	
Acenaphthylene	42.7	5.0	ng/l	50.0		85	50-150	1	30	
Anthracene	44.9	5.0	ng/l	50.0		90	50-150	10	30	
Benzo (a) anthracene	72.6	5.0	ng/l	50.0		145	50-150	2	30	
Benzo (a) pyrene	66.9	5.0	ng/l	50.0		134	50-150	7	30	
Benzo (b) fluoranthene	59.7	5.0	ng/l	50.0		119	50-150	9	30	
Benzo (g,h,i) perylene	58.2	5.0	ng/l	50.0		116	50-150	19	30	
Benzo (k) fluoranthene	66.0	5.0	ng/l	50.0		132	50-150	13	30	
Chrysene	57.7	5.0	ng/l	50.0		115	50-150	3	30	
Dibenzo (a,h) anthracene	64.0	5.0	ng/l	50.0		128	50-150	23	30	
Fluoranthene	51.2	5.0	ng/l	50.0		102	50-150	1	30	
Fluorene	49.5	5.0	ng/l	50.0		99	50-150	3	30	
Indeno (1,2,3-cd) pyrene	66.6	5.0	ng/l	50.0		133	50-150	27	30	
Naphthalene	42.4	5.0	ng/l	50.0		85	50-150	5	30	
Phenanthrene	49.9	5.0	ng/l	50.0		100	50-150	4	30	
Pyrene	53.9	5.0	ng/l	50.0		108	50-150	0.5	30	
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*100*		*ng/l*	*100*		*100*	*50-150*			
Perylene-d12	*93.9*		*ng/l*	*100*		*94*	*50-150*			
Matrix Spike (W6L2194-MS1)	**Source: 6L17005-11**			**Prepared: 12/22/16 Analyzed: 12/28/16**						
Acenaphthene	52.4	10	ng/l	100	1.80	51	50-150			M-02
Acenaphthylene	58.4	10	ng/l	100	ND	58	50-150			M-02
Anthracene	90.2	10	ng/l	100	4.18	86	50-150			M-02
Benzo (a) anthracene	145	10	ng/l	100	ND	145	50-150			M-02
Benzo (a) pyrene	128	10	ng/l	100	ND	128	50-150			M-02
Benzo (b) fluoranthene	123	10	ng/l	100	ND	123	50-150			M-02
Benzo (g,h,i) perylene	97.5	10	ng/l	100	1.94	96	50-150			M-02
Benzo (k) fluoranthene	109	10	ng/l	100	ND	109	50-150			M-02
Chrysene	95.4	10	ng/l	100	ND	95	50-150			M-02
Dibenzo (a,h) anthracene	109	10	ng/l	100	ND	109	50-150			M-02
Fluoranthene	105	10	ng/l	100	9.03	96	50-150			M-02
Fluorene	74.0	10	ng/l	100	6.34	68	50-150			M-02
Indeno (1,2,3-cd) pyrene	124	10	ng/l	100	3.56	121	50-150			M-02

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Quality Control Results (Continued)

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

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

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Project Number: ElMonte SW Outfall Monitoring

Project Manager: Edmond G. Suher

Reported:
01/14/2017 09:36

Notes and Definitions

Item	Definition
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
M-06	Due to the high concentration of analyte inherent in the sample, sample was diluted prior to preparation. The MDL and MRL were raised due to this dilution.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
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.
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.

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