

Work Orders: 8C22099

Project: IRWINDALE SW Outfall Mon.

Attn: Edmond G. Suher

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

Report Date: 4/27/2018

Received Date: 3/22/2018

Turnaround Time: Normal

Phones: (818) 841-9004

Fax: (818) 841-8013

P.O. #:

Billing Code:

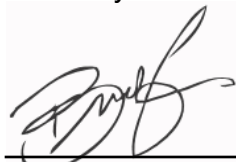
DoD-ELAP #L2457 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • ISO 17025 #L2457.01 • LACSD #10143 • NJ-DEP #CA015

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

Dear Edmond G. Suher,

Enclosed are the results of analyses for samples received 3/22/18 with the Chain-of-Custody document. The samples were received in good condition, at 11.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Brandon Gee
Operations Manager/Senior PM





WECK LABORATORIES, INC.

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

Certificate of Analysis

FINAL REPORT

Project Number: IRWINDALE SW Outfall Mon.

Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
SAWPW-074A	ES/TM	8C22099-01	Water	03/22/18 14:30	
SGR-077	ES/TM	8C22099-02	Water	03/22/18 15:17	
BDW-027A	ES/TM	8C22099-03	Water	03/22/18 16:04	
Trip Blank	ES/TM	8C22099-04	Water	03/22/18 16:48	

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
Enterolert in Water		
Enterococcus		NELAP
EPA 625.1 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:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Sample Results

Sample: SAWPW-074A

Sampled: 03/22/18 14:30 by ES/TM

8C22099-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W8C1374	Instr: LC12	Prepared: 03/23/18 08:51	Analyst: jan	
Chloride, Total	1.7	0.50	mg/l	1	03/23/18 14:17
NO2+NO3 as N	0.88	0.11	mg/l	1	03/23/18 14:17
Sulfate as SO4	2.0	0.50	mg/l	1	03/23/18 14:17

Chlorinated Acids Herbicides by GC/ECD

Method: EPA 515.3	Batch ID: W8C1837	Instr: GC08	Prepared: 03/30/18 08:39	Analyst: rmr	
2,4,5-T	ND	0.20	ug/l	1	04/10/18 02:35
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	04/10/18 02:35
2,4-D	ND	0.40	ug/l	1	04/10/18 02:35
2,4-DB	ND	2.0	ug/l	1	04/10/18 02:35
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	04/10/18 02:35
Acifluorfen	ND	0.40	ug/l	1	04/10/18 02:35
Bentazon	ND	2.0	ug/l	1	04/10/18 02:35
Dalapon	ND	0.40	ug/l	1	04/10/18 02:35
DCPA	ND	0.10	ug/l	1	04/10/18 02:35
Dicamba	ND	0.60	ug/l	1	04/10/18 02:35
Dichloroprop	ND	0.30	ug/l	1	04/10/18 02:35
Dinoseb	ND	0.40	ug/l	1	04/10/18 02:35
Pentachlorophenol	0.44	0.20	ug/l	1	04/10/18 02:35
Picloram	ND	0.60	ug/l	1	04/10/18 02:35
Surrogate(s)					
2,4-DCAA	99% Conc: 9.85	70-130			04/10/18 02:35

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

Method: EPA 160.4	Batch ID: W8C1750	Instr: Inst	Prepared: 03/28/18 17:02	Analyst: mic
Volatile Suspended Solids		ND	5.0 mg/l	1 03/29/18 17:40
Method: EPA 180.1	Batch ID: W8C1369	Instr: TURB01	Prepared: 03/23/18 07:58	Analyst: sap
Turbidity		85	1.0 NTU	10 03/23/18 08:39
Method: EPA 335.4	Batch ID: W8D0029	Instr: AA01	Prepared: 04/02/18 09:56	Analyst: AJK
Cyanide, Total		ND	5.0 ug/l	1 04/03/18 16:31
Method: EPA 350.1	Batch ID: W8C1719	Instr: AA06	Prepared: 03/28/18 12:53	Analyst: mnq
Ammonia as N		0.36	0.10 mg/l	1 03/29/18 18:17
Method: EPA 351.2	Batch ID: W8D0485	Instr: AA06	Prepared: 04/06/18 12:13	Analyst: ymt
TKN		1.3	0.20 mg/l	2 04/08/18 13:27
Method: EPA 365.1	Batch ID: W8C1539	Instr: AA01	Prepared: 03/26/18 13:21	Analyst: AJK
Phosphorus as P, Total		0.43	0.050 mg/l	5 03/30/18 13:29
Method: EPA 365.3	Batch ID: W8C1705	Instr: UVVIS04	Prepared: 03/28/18 10:46	Analyst: stg
Phosphorus, Dissolved		0.15	0.010 mg/l	1 04/02/18 14:51

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Certificate of Analysis

FINAL REPORT

Reported:
04/27/2018 15:14

Sample Results

(Continued)

Sample: SAWPW-074A
8C22099-01 (Water)

Sampled: 03/22/18 14:30 by ES/TM
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 410.4 Chemical Oxygen Demand	Batch ID: W8D0130 Instr: Inst 40	Prepared: 04/03/18 11:32 5.0	mg/l	1	Analyst: mnq 04/05/18 13:37	
Method: EPA 420.4 Phenolics	Batch ID: W8D0001 Instr: AA03 ND	Prepared: 04/01/18 08:54 0.010	mg/l	1	Analyst: ymt 04/04/18 16:19	
Method: SM 2320B Alkalinity as CaCO3	Batch ID: W8C1477 Instr: AA02 26	Prepared: 03/25/18 10:28 2.0	mg/l	1	Analyst: stg 03/25/18 13:06	
Method: SM 2510B Specific Conductance (EC)	Batch ID: W8C1610 Instr: AA02 63	Prepared: 03/27/18 10:26 2.0	umhos/cm	1	Analyst: stg 03/27/18 14:34	
Method: SM 2540C Total Dissolved Solids	Batch ID: W8C1574 Instr: Inst 55	Prepared: 03/26/18 18:08 10	mg/l	1	Analyst: ymt 03/28/18 17:53	
Method: SM 2540D Total Suspended Solids	Batch ID: W8C1748 Instr: Inst 92	Prepared: 03/28/18 16:59 5	mg/l	1	Analyst: mic 03/29/18 17:40	
Method: SM 4500O-G Dissolved Oxygen	Batch ID: W8C1362 Instr: Inst 9.22	Prepared: 03/22/18 18:44 1.00	mg/l	1	Analyst: mic 03/22/18 21:05	*
Method: SM 5210B Biochemical Oxygen Demand	Batch ID: W8C1377 Instr: Inst 4.2	Prepared: 03/23/18 09:00 2.0	mg/l	1	Analyst: mic 03/28/18 14:10	
Method: SM 5310B Total Organic Carbon (TOC)	Batch ID: W8C1790 Instr: TOC02 4.8	Prepared: 03/29/18 10:09 0.10	mg/l	1	Analyst: jlp 03/29/18 12:10	
Method: SM 5540C MBAS	Batch ID: W8C1433 Instr: UVVIS03 0.051	Prepared: 03/23/18 16:39 0.050	mg/l	1	Analyst: stg 03/23/18 21:06	
Hexavalent Chromium by IC						
Method: EPA 218.6 Chromium 6+	Batch ID: W8C1788 Instr: LC13 0.41	Prepared: 03/29/18 10:04 0.10	ug/l	5	Analyst: dil 03/29/18 13:01	
Chromium 6+, Dissolved	0.44	0.10	ug/l	5	03/29/18 13:13	
Hydrocarbons by GC/FID						
Method: EPA 8015D Diesel Range Organics	Batch ID: W8C1782 Instr: GC04 0.51	Prepared: 03/29/18 09:13 0.10	mg/l	1	Analyst: cam 04/02/18 20:58	
Oil Range Organics	1.2	0.50	mg/l	1	04/02/18 20:58	
Surrogate(s) n-Tetracosane	105% Conc: 0.263	64-155			04/02/18 20:58	
Mercury - Low Level by CVAFS						
Method: EPA 1631E Mercury, Dissolved	Batch ID: W8C1712 Instr: HG02 8.3	Prepared: 03/24/18 08:50 0.50	ng/l	1	Analyst: aln 03/29/18 12:56	
Mercury, Total	42	2.5	ng/l	5	03/29/18 13:10	
Metals by EPA 200 Series Methods						
Method: EPA 200.7 Calcium Hardness as CaCO3	Batch ID: [CALC] Instr: [CALC] 26.1	Prepared: 04/04/18 09:59 0.250	mg/l	1	Analyst: JCK 04/05/18 17:09	

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Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 03/22/18 14:30 by ES/TM

8C22099-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Metals by EPA 200 Series Methods (Continued)

Method: EPA 200.7	Batch ID: W8D0222	Instr: ICP03	Prepared: 04/04/18 09:59		Analyst: JCK
Calcium, Total		10.5	0.100	mg/l	1 04/05/18 17:09

Method: EPA 200.8	Batch ID: W8D0218	Instr: ICPMS04	Prepared: 04/04/18 09:56			Analyst: rrl
Aluminum, Dissolved	41	5.0	ug/l	1	04/10/18 14:41	
Aluminum, Total	4200	5.0	ug/l	1	04/10/18 14:45	
Antimony, Dissolved	0.76	0.50	ug/l	1	04/10/18 14:41	
Antimony, Total	1.3	0.50	ug/l	1	04/10/18 14:45	
Arsenic, Dissolved	1.6	0.40	ug/l	1	04/10/18 14:41	
Arsenic, Total	2.8	0.40	ug/l	1	04/10/18 14:45	
Cadmium, Dissolved	ND	0.10	ug/l	1	04/10/18 14:41	
Cadmium, Total	0.18	0.10	ug/l	1	04/10/18 14:45	
Chromium, Dissolved	0.50	0.20	ug/l	1	04/10/18 14:41	
Chromium, Total	7.6	0.20	ug/l	1	04/10/18 14:45	
Copper, Dissolved	4.1	0.50	ug/l	1	04/10/18 14:41	
Copper, Total	18	0.50	ug/l	1	04/10/18 14:45	
Iron, Dissolved	50	20	ug/l	1	04/10/18 14:41	
Iron, Total	5900	20	ug/l	1	04/10/18 14:45	
Lead, Dissolved	0.21	0.20	ug/l	1	04/10/18 14:41	
Lead, Total	16	0.20	ug/l	1	04/10/18 14:45	
Nickel, Dissolved	0.85	0.80	ug/l	1	04/10/18 14:41	
Nickel, Total	6.7	0.80	ug/l	1	04/10/18 14:45	
Zinc, Dissolved	13	5.0	ug/l	1	04/10/18 14:41	
Zinc, Total	100	5.0	ug/l	1	04/10/18 14:45	

Microbiological Parameters by Standard Methods

Method: Enterolert	Batch ID: W8D1609	Instr: Inst	Prepared: 03/22/18 18:04		Analyst: slh
Enterococcus		33000	100	MPN/100ml	100 03/23/18 19:25
Method: SM 9221B	Batch ID: W8D1611	Instr: Inst	Prepared: 03/22/18 17:36		Analyst: slh
Total Coliform		140000	18	MPN/100ml	10 04/26/18 09:23
Method: SM 9221E	Batch ID: W8D1611	Instr: Inst	Prepared: 03/22/18 17:36		Analyst: slh
Fecal Coliform		46000	18	MPN/100ml	10 04/25/18 09:25
Method: SM 9221F	Batch ID: W8D1611	Instr: Inst	Prepared: 03/22/18 17:36		Analyst: slh
E. coli		46000	18	MPN/100ml	10 04/25/18 09:25

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

Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28			Analyst: EFC
Acenaphthene	ND	50	ng/l	1	03/30/18 21:37	M-02
Acenaphthylene	ND	50	ng/l	1	03/30/18 21:37	M-02
Anthracene	ND	50	ng/l	1	03/30/18 21:37	M-02

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Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher



Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 03/22/18 14:30 by ES/TM

8C22099-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)						
Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28	Analyst: EFC		
Benzo (a) anthracene	ND	50	ng/l	1	03/30/18 21:37	M-02
Benzo (a) pyrene	ND	50	ng/l	1	03/30/18 21:37	M-02
Benzo (b) fluoranthene	ND	50	ng/l	1	03/30/18 21:37	M-02
Benzo (g,h,i) perylene	ND	50	ng/l	1	03/30/18 21:37	M-02
Benzo (k) fluoranthene	ND	50	ng/l	1	03/30/18 21:37	M-02
Chrysene	ND	50	ng/l	1	03/30/18 21:37	M-02
Dibenzo (a,h) anthracene	ND	50	ng/l	1	03/30/18 21:37	M-02
Fluoranthene	ND	50	ng/l	1	03/30/18 21:37	M-02
Fluorene	ND	50	ng/l	1	03/30/18 21:37	M-02
Indeno (1,2,3-cd) pyrene	ND	50	ng/l	1	03/30/18 21:37	M-02
Naphthalene	ND	50	ng/l	1	03/30/18 21:37	M-02
Phenanthrene	ND	50	ng/l	1	03/30/18 21:37	M-02
Pyrene	ND	50	ng/l	1	03/30/18 21:37	M-02
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	70% Conc: 700	50-150			03/30/18 21:37	M-02
Perylene-d12	69% Conc: 686	50-150			03/30/18 21:37	M-02



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Project Number: IRWINDALE SW Outfall Mon.

Project Manager: Edmond G. Suher

Certificate of Analysis

FINAL REPORT

Reported:
04/27/2018 15:14

Sample Results

(Continued)

Sample: SGR-077

Sampled: 03/22/18 15:17 by ES/TM

8C22099-02 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W8C1374	Instr: LC12	Prepared: 03/23/18 08:51		Analyst: jan
NO2+NO3 as N	-----	0.40	0.11	mg/l	1 03/23/18 14:35
Sulfate as SO4	-----	1.2	0.50	mg/l	1 03/23/18 14:35

Chlorinated Acids Herbicides by GC/ECD

Method: EPA 515.3	Batch ID: W8C1837	Instr: GC08	Prepared: 03/30/18 08:39			Analyst: rmr
2,4,5-T		ND	0.20	ug/l	1	04/10/18 03:12
2,4,5-TP (Silvex)		ND	0.20	ug/l	1	04/10/18 03:12
2,4-D		ND	0.40	ug/l	1	04/10/18 03:12
2,4-DB		ND	2.0	ug/l	1	04/10/18 03:12
3,5-Dichlorobenzoic acid		ND	1.0	ug/l	1	04/10/18 03:12
Acifluorfen		ND	0.40	ug/l	1	04/10/18 03:12
Bentazon		ND	2.0	ug/l	1	04/10/18 03:12
Dalapon		ND	0.40	ug/l	1	04/10/18 03:12
DCPA		ND	0.10	ug/l	1	04/10/18 03:12
Dicamba		ND	0.60	ug/l	1	04/10/18 03:12
Dichloroprop		ND	0.30	ug/l	1	04/10/18 03:12
Dinoseb		ND	0.40	ug/l	1	04/10/18 03:12
Pentachlorophenol		0.23	0.20	ug/l	1	04/10/18 03:12
Picloram		ND	0.60	ug/l	1	04/10/18 03:12
Surrogate(s)						
2,4-DCAA		98% Conc: 9.83	70-130			04/10/18 03:12

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

Method: EPA 160.4	Batch ID: W8C1750	Instr: Inst	Prepared: 03/28/18 17:02	Analyst: mic	
Volatile Suspended Solids		ND	5.0 mg/l	1	03/29/18 17:40
Method: EPA 180.1	Batch ID: W8C1369	Instr: TURB01	Prepared: 03/23/18 07:58	Analyst: sap	
Turbidity		19	0.10 NTU	1	03/23/18 08:39
Method: EPA 335.4	Batch ID: W8D0029	Instr: AA01	Prepared: 04/02/18 09:56	Analyst: AJK	
Cyanide, Total		ND	5.0 ug/l	1	04/03/18 16:32
Method: EPA 350.1	Batch ID: W8C1719	Instr: AA06	Prepared: 03/28/18 12:53	Analyst: mnq	
Ammonia as N		0.31	0.10 mg/l	1	03/29/18 18:17
Method: EPA 351.2	Batch ID: W8D0485	Instr: AA06	Prepared: 04/06/18 12:13	Analyst: ymt	
TKN		0.54	0.10 mg/l	1	04/08/18 13:27
Method: EPA 365.1	Batch ID: W8C1539	Instr: AA01	Prepared: 03/26/18 13:21	Analyst: AJK	
Phosphorus as P, Total		0.080	0.020 mg/l	1	03/30/18 12:57
Method: EPA 365.3	Batch ID: W8C1705	Instr: UVVIS04	Prepared: 03/28/18 10:46	Analyst: stg	
Phosphorus, Dissolved		0.052	0.010 mg/l	1	04/02/18 14:51
Method: EPA 410.4	Batch ID: W8D0130	Instr: Inst	Prepared: 04/03/18 11:32	Analyst: mnq	

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Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: SGR-077

Sampled: 03/22/18 15:17 by ES/TM

8C22099-02 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 410.4	Batch ID: W8D0130	Instr: Inst	Prepared: 04/03/18 11:32	Analyst: mnq		
Chemical Oxygen Demand	20	5.0	mg/l	1	04/05/18 13:37	
Method: EPA 420.4	Batch ID: W8D0001	Instr: AA03	Prepared: 04/01/18 08:54	Analyst: ymt		
Phenolics	ND	0.010	mg/l	1	04/04/18 16:20	
Method: SM 2320B	Batch ID: W8C1477	Instr: AA02	Prepared: 03/25/18 10:28	Analyst: stg		
Alkalinity as CaCO ₃	17	2.0	mg/l	1	03/25/18 13:06	
Method: SM 2510B	Batch ID: W8C1610	Instr: AA02	Prepared: 03/27/18 10:26	Analyst: stg		
Specific Conductance (EC)	35	2.0	umhos/cm	1	03/27/18 14:34	
Method: SM 2540C	Batch ID: W8C1574	Instr: Inst	Prepared: 03/26/18 18:08	Analyst: ymt		
Total Dissolved Solids	28	10	mg/l	1	03/28/18 17:53	
Method: SM 2540D	Batch ID: W8C1748	Instr: Inst	Prepared: 03/28/18 16:59	Analyst: mic		
Total Suspended Solids	10	5	mg/l	1	03/29/18 17:40	
Method: SM 4500O-G	Batch ID: W8C1362	Instr: Inst	Prepared: 03/22/18 18:44	Analyst: mic		
Dissolved Oxygen	9.26	1.00	mg/l	1	03/22/18 21:05	*
Method: SM 5210B	Batch ID: W8C1377	Instr: Inst	Prepared: 03/23/18 09:00	Analyst: mic		
Biochemical Oxygen Demand	2.5	2.0	mg/l	1	03/28/18 14:10	
Method: SM 5310B	Batch ID: W8C1790	Instr: TOC02	Prepared: 03/29/18 10:09	Analyst: jlp		
Total Organic Carbon (TOC)	3.8	0.10	mg/l	1	03/29/18 12:10	
Method: SM 5540C	Batch ID: W8C1433	Instr: UVVIS03	Prepared: 03/23/18 16:39	Analyst: stg		
MBAS	0.14	0.050	mg/l	1	03/23/18 21:06	
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W8C1788	Instr: LC13	Prepared: 03/29/18 10:04	Analyst: dil		
Chromium 6+	0.28	0.020	ug/l	1	03/29/18 13:25	
Chromium 6+, Dissolved	0.28	0.020	ug/l	1	03/29/18 15:03	
Hydrocarbons by GC/FID						
Method: EPA 8015D	Batch ID: W8C1782	Instr: GC04	Prepared: 03/29/18 09:13	Analyst: cam		
Diesel Range Organics	0.62	0.10	mg/l	1	04/02/18 21:34	
Oil Range Organics	0.51	0.50	mg/l	1	04/02/18 21:34	
Surrogate(s)						
n-Tetracosane	98% Conc: 0.245	64-155			04/02/18 21:34	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	Batch ID: W8C1712	Instr: HG02	Prepared: 03/24/18 08:50	Analyst: aln		
Mercury, Dissolved	7.9	0.50	ng/l	1	03/29/18 13:01	
Mercury, Total	14	2.5	ng/l	5	03/29/18 13:15	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	Batch ID: [CALC]	Instr: [CALC]	Prepared: 04/04/18 09:59	Analyst: JCK		
Calcium Hardness as CaCO ₃	12.4	0.250	mg/l	1	04/05/18 17:12	

8C22099

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Project Number: IRWINDALE SW Outfall Mon.

Reported:
04/27/2018 15:14

Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: SGR-077
8C22099-02 (Water)

Sampled: 03/22/18 15:17 by ES/TM
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Metals by EPA 200 Series Methods (Continued)

Method: EPA 200.7	Batch ID: W8D0222	Instr: ICP03	Prepared: 04/04/18 09:59		Analyst: JCK
Calcium, Total		4.97	0.100	mg/l	1 04/05/18 17:12
Method: EPA 200.8	Batch ID: W8D0218	Instr: ICPMS04	Prepared: 04/04/18 09:56		Analyst: rrl
Aluminum, Dissolved		34	5.0	ug/l	1 04/10/18 15:23
Aluminum, Total		570	5.0	ug/l	1 04/10/18 15:06
Antimony, Dissolved		10	0.50	ug/l	1 04/10/18 15:23
Antimony, Total		11	0.50	ug/l	1 04/10/18 15:06
Arsenic, Dissolved		ND	0.40	ug/l	1 04/10/18 15:23
Arsenic, Total		0.56	0.40	ug/l	1 04/10/18 15:06
Cadmium, Dissolved		ND	0.10	ug/l	1 04/10/18 15:23
Cadmium, Total		ND	0.10	ug/l	1 04/10/18 15:06
Chromium, Dissolved		0.26	0.20	ug/l	1 04/10/18 15:23
Chromium, Total		1.3	0.20	ug/l	1 04/10/18 15:06
Copper, Dissolved		3.1	0.50	ug/l	1 04/10/18 15:23
Copper, Total		6.4	0.50	ug/l	1 04/10/18 15:06
Iron, Dissolved		32	20	ug/l	1 04/10/18 15:23
Iron, Total		720	20	ug/l	1 04/10/18 15:06
Lead, Dissolved		ND	0.20	ug/l	1 04/10/18 15:23
Lead, Total		1.5	0.20	ug/l	1 04/10/18 15:06
Nickel, Dissolved		ND	0.80	ug/l	1 04/10/18 15:23
Nickel, Total		1.6	0.80	ug/l	1 04/10/18 15:06
Zinc, Dissolved		39	5.0	ug/l	1 04/10/18 15:23
Zinc, Total		65	5.0	ug/l	1 04/10/18 15:06

Microbiological Parameters by Standard Methods

Method: Enterolert	Batch ID: W8D1609	Instr: Inst	Prepared: 03/22/18 18:04		Analyst: slh
Enterococcus		2500	10	MPN/100ml	10 03/23/18 19:25
Method: SM 9221B	Batch ID: W8D1611	Instr: Inst	Prepared: 03/22/18 17:36		Analyst: slh
Total Coliform		28000	18	MPN/100ml	10 04/26/18 09:23
Method: SM 9221E	Batch ID: W8D1611	Instr: Inst	Prepared: 03/22/18 17:36		Analyst: slh
Fecal Coliform		5400	18	MPN/100ml	10 04/25/18 09:25
Method: SM 9221F	Batch ID: W8D1611	Instr: Inst	Prepared: 03/22/18 17:36		Analyst: slh
E. coli		5400	18	MPN/100ml	10 04/25/18 09:25

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

Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28			Analyst: EFC
Acenaphthene		ND	5.0	ng/l	1	03/30/18 22:05
Acenaphthylene		ND	5.0	ng/l	1	03/30/18 22:05
Anthracene		ND	5.0	ng/l	1	03/30/18 22:05



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Certificate of Analysis

FINAL REPORT

Project Number: IRWINDALE SW Outfall Mon.

Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: SGR-077

Sampled: 03/22/18 15:17 by ES/TM

8C22099-02 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)

Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28	Analyst: EFC	
Benzo (a) anthracene	ND	5.0	ng/l	1	03/30/18 22:05
Benzo (a) pyrene	ND	5.0	ng/l	1	03/30/18 22:05
Benzo (b) fluoranthene	ND	5.0	ng/l	1	03/30/18 22:05
Benzo (g,h,i) perylene	ND	5.0	ng/l	1	03/30/18 22:05
Benzo (k) fluoranthene	ND	5.0	ng/l	1	03/30/18 22:05
Chrysene	ND	5.0	ng/l	1	03/30/18 22:05
Dibenzo (a,h) anthracene	ND	5.0	ng/l	1	03/30/18 22:05
Fluoranthene	6.6	5.0	ng/l	1	03/30/18 22:05
Fluorene	ND	5.0	ng/l	1	03/30/18 22:05
Indeno (1,2,3-cd) pyrene	ND	5.0	ng/l	1	03/30/18 22:05
Naphthalene	6.3	5.0	ng/l	1	03/30/18 22:05
Phenanthrene	8.4	5.0	ng/l	1	03/30/18 22:05
Pyrene	8.1	5.0	ng/l	1	03/30/18 22:05
Surrogate(s)					
1,3-Dimethyl-2-nitrobenzene	83% Conc: 82.7	50-150			03/30/18 22:05
Perylene-d12	51% Conc: 50.5	50-150			03/30/18 22:05

Sample: SGR-077

Sampled: 03/22/18 15:17 by ES/TM

8C22099-02RE1 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W8C1681	Instr: LC12	Prepared: 03/28/18 08:13		Analyst: jan
Chloride, Total	0.72	0.50	mg/l	1	03/28/18 12:00



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FINAL REPORT

Project Number: IRWINDALE SW Outfall Mon.

Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 03/22/18 16:04 by ES/TM

8C22099-03 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W8C1374	Instr: LC12	Prepared: 03/23/18 08:51	Analyst: jan	
NO2+NO3 as N	0.30	0.11	mg/l	1	03/23/18 15:30
Sulfate as SO4	1.3	0.50	mg/l	1	03/23/18 15:30

Chlorinated Acids Herbicides by GC/ECD

Method: EPA 515.3	Batch ID: W8C1837	Instr: GC08	Prepared: 03/30/18 08:39	Analyst: rmr	
2,4,5-T	ND	0.20	ug/l	1	04/10/18 03:49
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	04/10/18 03:49
2,4-D	ND	0.40	ug/l	1	04/10/18 03:49
2,4-DB	ND	2.0	ug/l	1	04/10/18 03:49
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	04/10/18 03:49
Acifluorfen	ND	0.40	ug/l	1	04/10/18 03:49
Bentazon	ND	2.0	ug/l	1	04/10/18 03:49
Dalapon	ND	0.40	ug/l	1	04/10/18 03:49
DCPA	ND	0.10	ug/l	1	04/10/18 03:49
Dicamba	ND	0.60	ug/l	1	04/10/18 03:49
Dichloroprop	ND	0.30	ug/l	1	04/10/18 03:49
Dinoseb	ND	0.40	ug/l	1	04/10/18 03:49
Pentachlorophenol	ND	0.20	ug/l	1	04/10/18 03:49
Picloram	ND	0.60	ug/l	1	04/10/18 03:49
Surrogate(s)					
2,4-DCAA	97%	Conc: 9.66	70-130		04/10/18 03:49

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

Method: EPA 160.4	Batch ID: W8C1750	Instr: Inst	Prepared: 03/28/18 17:02	Analyst: mic
Volatile Suspended Solids		ND	5.0 mg/l	1 03/29/18 17:40
Method: EPA 180.1	Batch ID: W8C1369	Instr: TURB01	Prepared: 03/23/18 07:58	Analyst: sap
Turbidity		7.8	0.10 NTU	1 03/23/18 08:39
Method: EPA 335.4	Batch ID: W8D0029	Instr: AA01	Prepared: 04/02/18 09:56	Analyst: AJK
Cyanide, Total		ND	5.0 ug/l	1 04/03/18 16:28
Method: EPA 350.1	Batch ID: W8C1719	Instr: AA06	Prepared: 03/28/18 12:53	Analyst: mnq
Ammonia as N		0.27	0.10 mg/l	1 03/29/18 18:17
Method: EPA 351.2	Batch ID: W8D0485	Instr: AA06	Prepared: 04/06/18 12:13	Analyst: ymt
TKN		0.48	0.10 mg/l	1 04/08/18 13:27
Method: EPA 365.1	Batch ID: W8C1539	Instr: AA01	Prepared: 03/26/18 13:21	Analyst: AJK
Phosphorus as P, Total		0.053	0.010 mg/l	1 03/30/18 13:30
Method: EPA 365.3	Batch ID: W8C1705	Instr: UVVIS04	Prepared: 03/28/18 10:46	Analyst: stg
Phosphorus, Dissolved		0.033	0.010 mg/l	1 04/02/18 14:51
Method: EPA 410.4	Batch ID: W8D0130	Instr: Inst	Prepared: 04/03/18 11:32	Analyst: mnq

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FINAL REPORT

Project Number: IRWINDALE SW Outfall Mon.

Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 03/22/18 16:04 by ES/TM

8C22099-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 410.4 Chemical Oxygen Demand	Batch ID: W8D0130 Instr: Inst 15	Prepared: 04/03/18 11:32 5.0	mg/l	1	Analyst: mnq 04/05/18 13:37	
Method: EPA 420.4 Phenolics	Batch ID: W8D0001 Instr: AA03 ND	Prepared: 04/01/18 08:54 0.010	mg/l	1	Analyst: ymt 04/04/18 16:22	
Method: SM 2320B Alkalinity as CaCO3	Batch ID: W8C1477 Instr: AA02 20	Prepared: 03/25/18 10:28 2.0	mg/l	1	Analyst: stg 03/25/18 13:06	
Method: SM 2510B Specific Conductance (EC)	Batch ID: W8C1610 Instr: AA02 36	Prepared: 03/27/18 10:26 2.0	umhos/cm	1	Analyst: stg 03/27/18 14:34	
Method: SM 2540C Total Dissolved Solids	Batch ID: W8C1574 Instr: Inst 28	Prepared: 03/26/18 18:08 10	mg/l	1	Analyst: ymt 03/28/18 17:53	
Method: SM 2540D Total Suspended Solids	Batch ID: W8C1748 Instr: Inst 8	Prepared: 03/28/18 16:59 5	mg/l	1	Analyst: mic 03/29/18 17:40	
Method: SM 4500O-G Dissolved Oxygen	Batch ID: W8C1362 Instr: Inst 9.56	Prepared: 03/22/18 18:44 1.00	mg/l	1	Analyst: mic 03/22/18 21:05	*
Method: SM 5210B Biochemical Oxygen Demand	Batch ID: W8C1377 Instr: Inst ND	Prepared: 03/23/18 09:00 2.0	mg/l	1	Analyst: mic 03/28/18 14:10	
Method: SM 5310B Total Organic Carbon (TOC)	Batch ID: W8C1790 Instr: TOC02 3.2	Prepared: 03/29/18 10:09 0.10	mg/l	1	Analyst: jlp 03/29/18 12:10	
Method: SM 5540C MBAS	Batch ID: W8C1433 Instr: UVVIS03 0.14	Prepared: 03/23/18 16:39 0.050	mg/l	1	Analyst: stg 03/23/18 21:06	
Hexavalent Chromium by IC						
Method: EPA 218.6 Chromium 6+	Batch ID: W8C1788 Instr: LC13 0.23	Prepared: 03/29/18 10:04 0.020	ug/l	1	Analyst: dil 03/29/18 13:49	
Chromium 6+, Dissolved	0.23	0.020	ug/l	1	03/29/18 15:16	
Hydrocarbons by GC/FID						
Method: EPA 8015D Diesel Range Organics	Batch ID: W8C1782 Instr: GC04 0.20	Prepared: 03/29/18 09:13 0.10	mg/l	1	Analyst: cam 04/02/18 22:10	
Oil Range Organics	ND	0.50	mg/l	1	04/02/18 22:10	
Surrogate(s) n-Tetracosane	97% Conc: 0.243	64-155			04/02/18 22:10	
Mercury - Low Level by CVAFS						
Method: EPA 1631E Mercury, Dissolved	Batch ID: W8C1712 Instr: HG02 9.3	Prepared: 03/24/18 08:50 0.50	ng/l	1	Analyst: aln 03/29/18 13:05	
Mercury, Total	17	2.5	ng/l	5	03/29/18 13:20	
Metals by EPA 200 Series Methods						
Method: EPA 200.7 Calcium Hardness as CaCO3	Batch ID: [CALC] Instr: [CALC] 11.6	Prepared: 04/04/18 09:59 0.250	mg/l	1	Analyst: JCK 04/05/18 17:15	

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Project Number: IRWINDALE SW Outfall Mon.

Reported:
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Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: BDW-027A
8C22099-03 (Water)

Sampled: 03/22/18 16:04 by ES/TM
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Metals by EPA 200 Series Methods (Continued)

Method: EPA 200.7	Batch ID: W8D0222	Instr: ICP03	Prepared: 04/04/18 09:59		Analyst: JCK
Calcium, Total	4.64		0.100	mg/l	1 04/05/18 17:15
Method: EPA 200.8	Batch ID: W8D0218	Instr: ICPMS04	Prepared: 04/04/18 09:56		Analyst: rrl
Aluminum, Dissolved	15		5.0	ug/l	1 04/10/18 15:27
Aluminum, Total	260		5.0	ug/l	1 04/10/18 15:32
Antimony, Dissolved	0.51		0.50	ug/l	1 04/10/18 15:27
Antimony, Total	0.82		0.50	ug/l	1 04/10/18 15:32
Arsenic, Dissolved	ND		0.40	ug/l	1 04/10/18 15:27
Arsenic, Total	0.48		0.40	ug/l	1 04/10/18 15:32
Cadmium, Dissolved	ND		0.10	ug/l	1 04/10/18 15:27
Cadmium, Total	ND		0.10	ug/l	1 04/10/18 15:32
Chromium, Dissolved	0.26		0.20	ug/l	1 04/10/18 15:27
Chromium, Total	0.79		0.20	ug/l	1 04/10/18 15:32
Copper, Dissolved	2.6		0.50	ug/l	1 04/10/18 15:27
Copper, Total	5.6		0.50	ug/l	1 04/10/18 15:32
Iron, Dissolved	ND		20	ug/l	1 04/10/18 15:27
Iron, Total	360		20	ug/l	1 04/10/18 15:32
Lead, Dissolved	ND		0.20	ug/l	1 04/10/18 15:27
Lead, Total	1.3		0.20	ug/l	1 04/10/18 15:32
Nickel, Dissolved	ND		0.80	ug/l	1 04/10/18 15:27
Nickel, Total	2.7		0.80	ug/l	1 04/10/18 15:32
Zinc, Dissolved	36		5.0	ug/l	1 04/10/18 15:27
Zinc, Total	54		5.0	ug/l	1 04/10/18 15:32

Microbiological Parameters by Standard Methods

Method: Enterolert	Batch ID: W8D1609	Instr: Inst	Prepared: 03/22/18 18:04		Analyst: slh
Enterococcus		2500	10	MPN/100ml	10 03/23/18 19:25
Method: SM 9221B	Batch ID: W8D1611	Instr: Inst	Prepared: 03/22/18 17:36		Analyst: slh
Total Coliform		31000	18	MPN/100ml	10 04/26/18 09:23
Method: SM 9221E	Batch ID: W8D1611	Instr: Inst	Prepared: 03/22/18 17:36		Analyst: slh
Fecal Coliform		2000	18	MPN/100ml	10 04/25/18 09:25
Method: SM 9221F	Batch ID: W8D1611	Instr: Inst	Prepared: 03/22/18 17:36		Analyst: slh
E. coli		2000	18	MPN/100ml	10 04/25/18 09:25

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

Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28			Analyst: EFC
Acenaphthene		ND	5.0	ng/l	1	03/30/18 22:32
Acenaphthylene		ND	5.0	ng/l	1	03/30/18 22:32
Anthracene		ND	5.0	ng/l	1	03/30/18 22:32



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Certificate of Analysis

FINAL REPORT

Project Number: IRWINDALE SW Outfall Mon.

Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: BDW-027A

Sampled: 03/22/18 16:04 by ES/TM

8C22099-03 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)

Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28	Analyst: EFC	
Benzo (a) anthracene	ND	5.0	ng/l	1	03/30/18 22:32
Benzo (a) pyrene	ND	5.0	ng/l	1	03/30/18 22:32
Benzo (b) fluoranthene	ND	5.0	ng/l	1	03/30/18 22:32
Benzo (g,h,i) perylene	ND	5.0	ng/l	1	03/30/18 22:32
Benzo (k) fluoranthene	ND	5.0	ng/l	1	03/30/18 22:32
Chrysene	ND	5.0	ng/l	1	03/30/18 22:32
Dibenzo (a,h) anthracene	ND	5.0	ng/l	1	03/30/18 22:32
Fluoranthene	ND	5.0	ng/l	1	03/30/18 22:32
Fluorene	ND	5.0	ng/l	1	03/30/18 22:32
Indeno (1,2,3-cd) pyrene	ND	5.0	ng/l	1	03/30/18 22:32
Naphthalene	7.8	5.0	ng/l	1	03/30/18 22:32
Phenanthrene	7.1	5.0	ng/l	1	03/30/18 22:32
Pyrene	ND	5.0	ng/l	1	03/30/18 22:32
Surrogate(s)					
1,3-Dimethyl-2-nitrobenzene	85% Conc: 85.3	50-150			03/30/18 22:32
Perylene-d12	59% Conc: 58.5	50-150			03/30/18 22:32

Sample: BDW-027A

Sampled: 03/22/18 16:04 by ES/TM

8C22099-03RE1 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W8C1681	Instr: LC12	Prepared: 03/28/18 08:13	Analyst: jan
Chloride, Total	0.63	0.50	mg/l	1
				03/28/18 12:00

Sample: Trip Blank

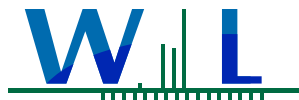
Sampled: 03/22/18 16:48 by ES/TM

8C22099-04 (Water)

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

Method: EPA 1631E	Batch ID: W8C1712	Instr: HG02	Prepared: 03/24/18 08:50		Analyst: aln
Mercury, Dissolved		ND	0.50	ng/l	1 03/29/18 12:46
Mercury, Total		ND	0.50	ng/l	1 03/29/18 12:51



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Project Number: IRWINDALE SW Outfall Mon.

Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1374 - EPA 300.0										
Blank (W8C1374-BLK1)				Prepared & Analyzed: 03/23/18						
Chloride, Total	ND	0.50	mg/l							
NO2+NO3 as N	ND	0.11	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W8C1374-BS1)				Prepared & Analyzed: 03/23/18						
Chloride, Total	9.96	0.50	mg/l	10.0		100	90-110			
NO2+NO3 as N	3.87	0.11	mg/l	4.00		97	90-110			
Sulfate as SO4	10.6	0.50	mg/l	10.0		106	90-110			
Matrix Spike (W8C1374-MS1)				Source: 8C12004-02 Prepared & Analyzed: 03/23/18						
Chloride, Total	124	5.0	mg/l	100	23.2	101	76-118			
NO2+NO3 as N	47.8	1.1	mg/l	40.0	7.83	100	84-115			
Sulfate as SO4	166	5.0	mg/l	100	55.7	110	78-111			
Matrix Spike (W8C1374-MS2)				Source: 8C12100-01 Prepared & Analyzed: 03/23/18						
Chloride, Total	104	5.0	mg/l	100	3.10	101	76-118			
NO2+NO3 as N	40.5	1.1	mg/l	40.0	0.605	100	84-115			
Sulfate as SO4	137	5.0	mg/l	100	29.5	107	78-111			
Matrix Spike Dup (W8C1374-MSD1)				Source: 8C12004-02 Prepared & Analyzed: 03/23/18						
Chloride, Total	124	5.0	mg/l	100	23.2	101	76-118	0.2	20	
NO2+NO3 as N	47.7	1.1	mg/l	40.0	7.83	100	84-115	0.08	20	
Sulfate as SO4	165	5.0	mg/l	100	55.7	110	78-111	0.08	20	
Matrix Spike Dup (W8C1374-MSD2)				Source: 8C12100-01 Prepared & Analyzed: 03/23/18						
Chloride, Total	104	5.0	mg/l	100	3.10	101	76-118	0.2	20	
NO2+NO3 as N	40.4	1.1	mg/l	40.0	0.605	100	84-115	0.07	20	
Sulfate as SO4	136	5.0	mg/l	100	29.5	107	78-111	0.5	20	
Batch: W8C1681 - EPA 300.0										
Blank (W8C1681-BLK1)				Prepared & Analyzed: 03/28/18						
Chloride, Total	ND	0.50	mg/l							
LCS (W8C1681-BS1)				Prepared & Analyzed: 03/28/18						
Chloride, Total	9.95	0.50	mg/l	10.0		99	90-110			
Matrix Spike (W8C1681-MS1)				Source: 8C26004-02 Prepared & Analyzed: 03/28/18						
Chloride, Total	125	5.0	mg/l	100	23.3	101	76-118			
Matrix Spike (W8C1681-MS2)				Source: 8C27098-01 Prepared & Analyzed: 03/28/18						
Chloride, Total	112	5.0	mg/l	100	11.7	101	76-118			
Matrix Spike Dup (W8C1681-MSD1)				Source: 8C26004-02 Prepared & Analyzed: 03/28/18						
Chloride, Total	125	5.0	mg/l	100	23.3	102	76-118	0.2	20	
Matrix Spike Dup (W8C1681-MSD2)				Source: 8C27098-01 Prepared & Analyzed: 03/28/18						
Chloride, Total	112	5.0	mg/l	100	11.7	101	76-118	0.009	20	



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Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1837 - EPA 515.3										
Blank (W8C1837-BLK1)				Prepared: 03/30/18 Analyzed: 04/09/18						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
<i>Surrogate(s)</i>										
2,4-DCAA		9.13	ug/l	10.0		91	70-130			
LCS (W8C1837-BS1)				Prepared: 03/30/18 Analyzed: 04/09/18						
2,4,5-T	3.98	0.20	ug/l	4.00		99	70-130			
2,4,5-TP (Silvex)	4.23	0.20	ug/l	4.00		106	70-130			
2,4-D	8.14	0.40	ug/l	8.00		102	70-130			
2,4-DB	16.5	2.0	ug/l	16.0		103	70-130			
3,5-Dichlorobenzoic acid	7.82	1.0	ug/l	8.00		98	70-130			
Acifluorfen	4.27	0.40	ug/l	4.00		107	70-130			
Bentazon	14.8	2.0	ug/l	16.0		93	70-130			
Dalapon	7.48	0.40	ug/l	8.00		93	70-130			
DCPA	4.11	0.10	ug/l	4.00		103	70-130			
Dicamba	7.50	0.60	ug/l	8.00		94	70-130			
Dichloroprop	8.08	0.30	ug/l	8.00		101	70-130			
Dinoseb	4.32	0.40	ug/l	4.00		108	70-130			
Pentachlorophenol	3.48	0.20	ug/l	4.00		87	70-130			
Picloram	4.07	0.60	ug/l	4.00		102	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		9.14	ug/l	10.0		91	70-130			
Matrix Spike (W8C1837-MS1)				Source: 8C22099-01 Prepared: 03/30/18 Analyzed: 04/10/18						
2,4,5-T	3.32	0.20	ug/l	4.00	ND	83	70-130			
2,4,5-TP (Silvex)	4.25	0.20	ug/l	4.00	ND	106	70-130			
2,4-D	8.41	0.40	ug/l	8.00	ND	105	70-130			



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Quality Control Results

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Chlorinated Acids Herbicides by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1837 - EPA 515.3 (Continued)										
Matrix Spike (W8C1837-MS1)		Source: 8C22099-01			Prepared: 03/30/18 Analyzed: 04/10/18					
2,4-DB	15.1	2.0	ug/l	16.0	ND	94	70-130			
3,5-Dichlorobenzoic acid	7.94	1.0	ug/l	8.00	ND	99	70-130			
Acifluorfen	4.76	0.40	ug/l	4.00	ND	119	70-130			
Bentazon	16.4	2.0	ug/l	16.0	ND	103	70-130			
Dalapon	6.36	0.40	ug/l	8.00	ND	79	70-130			
DCPA	4.14	0.10	ug/l	4.00	ND	104	70-130			
Dicamba	7.93	0.60	ug/l	8.00	ND	99	70-130			
Dichloroprop	8.47	0.30	ug/l	8.00	ND	106	70-130			
Dinoseb	4.10	0.40	ug/l	4.00	ND	102	70-130			
Pentachlorophenol	3.82	0.20	ug/l	4.00	0.445	84	70-130			
Picloram	4.37	0.60	ug/l	4.00	ND	109	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		10.0	ug/l	10.0		100	70-130			
Matrix Spike (W8C1837-MS2)		Source: 8C22099-02			Prepared: 03/30/18 Analyzed: 04/10/18					
2,4,5-T	3.44	0.20	ug/l	4.00	ND	86	70-130			
2,4,5-TP (Silvex)	4.24	0.20	ug/l	4.00	ND	106	70-130			
2,4-D	9.55	0.40	ug/l	8.00	ND	119	70-130			
2,4-DB	18.1	2.0	ug/l	16.0	ND	113	70-130			
3,5-Dichlorobenzoic acid	8.56	1.0	ug/l	8.00	ND	107	70-130			
Acifluorfen	4.87	0.40	ug/l	4.00	ND	122	70-130			
Bentazon	16.2	2.0	ug/l	16.0	ND	102	70-130			
Dalapon	8.64	0.40	ug/l	8.00	ND	108	70-130			
DCPA	4.32	0.10	ug/l	4.00	ND	108	70-130			
Dicamba	8.41	0.60	ug/l	8.00	ND	105	70-130			
Dichloroprop	8.28	0.30	ug/l	8.00	ND	103	70-130			
Dinoseb	4.68	0.40	ug/l	4.00	ND	117	70-130			
Pentachlorophenol	3.86	0.20	ug/l	4.00	0.229	91	70-130			
Picloram	4.49	0.60	ug/l	4.00	ND	112	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		9.82	ug/l	10.0		98	70-130			
Matrix Spike Dup (W8C1837-MSD1)		Source: 8C22099-01			Prepared: 03/30/18 Analyzed: 04/10/18					
2,4,5-T	3.48	0.20	ug/l	4.00	ND	87	70-130	4	30	
2,4,5-TP (Silvex)	4.28	0.20	ug/l	4.00	ND	107	70-130	0.8	30	
2,4-D	9.37	0.40	ug/l	8.00	ND	117	70-130	11	30	
2,4-DB	17.7	2.0	ug/l	16.0	ND	111	70-130	16	30	
3,5-Dichlorobenzoic acid	8.70	1.0	ug/l	8.00	ND	109	70-130	9	30	
Acifluorfen	4.72	0.40	ug/l	4.00	ND	118	70-130	0.9	30	



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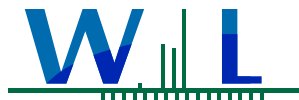
Project Manager: Edmond G. Suher

Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1837 - EPA 515.3 (Continued)										
Matrix Spike Dup (W8C1837-MSD1)			Source: 8C22099-01		Prepared: 03/30/18 Analyzed: 04/10/18					
Bentazon	16.5	2.0	ug/l	16.0	ND	103	70-130	0.6	30	
Dalapon	8.55	0.40	ug/l	8.00	ND	107	70-130	29	30	
DCPA	4.34	0.10	ug/l	4.00	ND	108	70-130	5	30	
Dicamba	8.27	0.60	ug/l	8.00	ND	103	70-130	4	30	
Dichloroprop	9.07	0.30	ug/l	8.00	ND	113	70-130	7	30	
Dinoseb	4.75	0.40	ug/l	4.00	ND	119	70-130	15	30	
Pentachlorophenol	4.06	0.20	ug/l	4.00	0.445	90	70-130	6	30	
Picloram	4.41	0.60	ug/l	4.00	ND	110	70-130	0.9	30	
<i>Surrogate(s)</i>										
2,4-DCAA		11.1	ug/l	10.0		111	70-130			
Matrix Spike Dup (W8C1837-MSD2)			Source: 8C22099-02		Prepared: 03/30/18 Analyzed: 04/10/18					
2,4,5-T	3.50	0.20	ug/l	4.00	ND	87	70-130	2	30	
2,4,5-TP (Silvex)	4.13	0.20	ug/l	4.00	ND	103	70-130	3	30	
2,4-D	9.36	0.40	ug/l	8.00	ND	117	70-130	2	30	
2,4-DB	15.5	2.0	ug/l	16.0	ND	97	70-130	15	30	
3,5-Dichlorobenzoic acid	8.63	1.0	ug/l	8.00	ND	108	70-130	0.9	30	
Acifluorfen	4.62	0.40	ug/l	4.00	ND	116	70-130	5	30	
Bentazon	15.9	2.0	ug/l	16.0	ND	99	70-130	2	30	
Dalapon	8.67	0.40	ug/l	8.00	ND	108	70-130	0.3	30	
DCPA	4.15	0.10	ug/l	4.00	ND	104	70-130	4	30	
Dicamba	8.03	0.60	ug/l	8.00	ND	100	70-130	5	30	
Dichloroprop	9.17	0.30	ug/l	8.00	ND	115	70-130	10	30	
Dinoseb	4.31	0.40	ug/l	4.00	ND	108	70-130	8	30	
Pentachlorophenol	3.78	0.20	ug/l	4.00	0.229	89	70-130	2	30	
Picloram	4.25	0.60	ug/l	4.00	ND	106	70-130	5	30	
<i>Surrogate(s)</i>										
2,4-DCAA		10.1	ug/l	10.0		101	70-130			



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Quality Control Results

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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: W8C1369 - EPA 180.1										
Blank (W8C1369-BLK1)				Prepared & Analyzed: 03/23/18						
Turbidity	ND	0.10	NTU							
LCS (W8C1369-BS1)				Prepared & Analyzed: 03/23/18						
Turbidity	6.95	0.10	NTU	6.99		99	90-110			
Duplicate (W8C1369-DUP1)				Source: 8C22054-01 Prepared & Analyzed: 03/23/18						
Turbidity	ND	0.10	NTU		ND				10	
Batch: W8C1377 - SM 5210B										
Blank (W8C1377-BLK1)				Prepared: 03/23/18 Analyzed: 03/28/18						
Biochemical Oxygen Demand	ND	2.0	mg/l							
Blank (W8C1377-BLK2)				Prepared: 03/23/18 Analyzed: 03/28/18						
Biochemical Oxygen Demand	ND	2.0	mg/l							
LCS (W8C1377-BS1)				Prepared: 03/23/18 Analyzed: 03/28/18						
Biochemical Oxygen Demand	182	2.0	mg/l	198		92	85-115			
Duplicate (W8C1377-DUP1)				Source: 8C22094-01 Prepared: 03/23/18 Analyzed: 03/28/18						
Biochemical Oxygen Demand	ND	2.0	mg/l		ND				20	
Batch: W8C1433 - SM 5540C										
Blank (W8C1433-BLK1)				Prepared & Analyzed: 03/23/18						
MBAS	ND	0.050	mg/l							
LCS (W8C1433-BS1)				Prepared & Analyzed: 03/23/18						
MBAS	0.187	0.050	mg/l	0.200		93	82-115			
Matrix Spike (W8C1433-MS1)				Source: 8C23079-02 Prepared & Analyzed: 03/23/18						
MBAS	0.247	0.050	mg/l	0.200	0.0306	108	74-123			
Matrix Spike Dup (W8C1433-MSD1)				Source: 8C23079-02 Prepared & Analyzed: 03/23/18						
MBAS	0.246	0.050	mg/l	0.200	0.0306	108	74-123	0.2	20	
Batch: W8C1477 - SM 2320B										
Blank (W8C1477-BLK1)				Prepared & Analyzed: 03/25/18						
Alkalinity as CaCO ₃	ND	2.0	mg/l							
LCS (W8C1477-BS1)				Prepared & Analyzed: 03/25/18						
Alkalinity as CaCO ₃	247	2.0	mg/l	250		99	94-108			
Duplicate (W8C1477-DUP1)				Source: 8C21103-02 Prepared & Analyzed: 03/25/18						
Alkalinity as CaCO ₃	22.8	2.0	mg/l		24.5			7	15	
Batch: W8C1539 - EPA 365.1										
Blank (W8C1539-BLK1)				Prepared: 03/26/18 Analyzed: 03/30/18						
Phosphorus as P, Total	ND	0.010	mg/l							
LCS (W8C1539-BS1)				Prepared: 03/26/18 Analyzed: 03/30/18						
Phosphorus as P, Total	0.0527	0.010	mg/l	0.0500		105	90-110			
Matrix Spike (W8C1539-MS1)				Source: 8C21103-01 Prepared: 03/26/18 Analyzed: 03/30/18						

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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	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1539 - EPA 365.1 (Continued)										
Matrix Spike (W8C1539-MS1)	Source: 8C21103-01			Prepared: 03/26/18		Analyzed: 03/30/18				
Phosphorus as P, Total	0.472	0.040	mg/l	0.200	0.352	60	90-110			MS-02
Matrix Spike (W8C1539-MS2)	Source: 8C22030-01			Prepared: 03/26/18		Analyzed: 03/30/18				
Phosphorus as P, Total	0.336	0.040	mg/l	0.200	0.214	61	90-110			MS-02
Matrix Spike Dup (W8C1539-MSD1)	Source: 8C21103-01			Prepared: 03/26/18		Analyzed: 03/30/18				
Phosphorus as P, Total	0.492	0.040	mg/l	0.200	0.352	70	90-110	4	20	MS-02
Matrix Spike Dup (W8C1539-MSD2)	Source: 8C22030-01			Prepared: 03/26/18		Analyzed: 03/30/18				
Phosphorus as P, Total	0.348	0.040	mg/l	0.200	0.214	67	90-110	3	20	MS-02
Batch: W8C1574 - SM 2540C										
Blank (W8C1574-BLK1)				Prepared: 03/26/18		Analyzed: 03/28/18				
Total Dissolved Solids	ND	10	mg/l							
LCS (W8C1574-BS1)				Prepared: 03/26/18		Analyzed: 03/28/18				
Total Dissolved Solids	827	10	mg/l	824		100	96-102			
Duplicate (W8C1574-DUP1)	Source: 8C22030-01			Prepared: 03/26/18		Analyzed: 03/28/18				
Total Dissolved Solids	2180	10	mg/l		2090			4	10	
Duplicate (W8C1574-DUP2)	Source: 8C22065-01			Prepared: 03/26/18		Analyzed: 03/28/18				
Total Dissolved Solids	2740	10	mg/l		2520			8	10	
Batch: W8C1610 - SM 2510B										
Blank (W8C1610-BLK1)				Prepared & Analyzed: 03/27/18						
Specific Conductance (EC)	ND	2.0	umhos/cm							
LCS (W8C1610-BS1)				Prepared & Analyzed: 03/27/18						
Specific Conductance (EC)	194	2.0	umhos/cm	200		97	95-105			
Duplicate (W8C1610-DUP1)	Source: 8C22084-01			Prepared & Analyzed: 03/27/18						
Specific Conductance (EC)	470	2.0	umhos/cm		475			1	5	
Batch: W8C1705 - EPA 365.3										
Blank (W8C1705-BLK1)				Prepared: 03/28/18 Analyzed: 04/02/18						
Phosphorus, Dissolved	ND	0.010	mg/l							
LCS (W8C1705-BS1)				Prepared: 03/28/18 Analyzed: 04/02/18						
Phosphorus, Dissolved	0.208	0.010	mg/l	0.200		104	90-110			
Matrix Spike (W8C1705-MS1)	Source: 8C21097-02			Prepared: 03/28/18 Analyzed: 04/02/18						
Phosphorus, Dissolved	0.224	0.010	mg/l	0.200	0.0250	100	90-110			
Matrix Spike Dup (W8C1705-MSD1)	Source: 8C21097-02			Prepared: 03/28/18 Analyzed: 04/02/18						
Phosphorus, Dissolved	0.225	0.010	mg/l	0.200	0.0250	100	90-110	0.4	20	
Batch: W8C1719 - EPA 350.1										
Blank (W8C1719-BLK1)				Prepared: 03/28/18 Analyzed: 03/29/18						
Ammonia as N	ND	0.10	mg/l							
Blank (W8C1719-BLK2)				Prepared: 03/28/18 Analyzed: 03/29/18						

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Quality Control Results

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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	Limit	Qualifier
Batch: W8C1719 - EPA 350.1 (Continued)										
Blank (W8C1719-BLK2)				Prepared: 03/28/18 Analyzed: 03/29/18						
Ammonia as N	ND	0.10	mg/l							
LCS (W8C1719-BS1)				Prepared: 03/28/18 Analyzed: 03/29/18						
Ammonia as N	0.249	0.10	mg/l	0.250		100	90-110			
LCS (W8C1719-BS2)				Prepared: 03/28/18 Analyzed: 03/29/18						
Ammonia as N	0.250	0.10	mg/l	0.250		100	90-110			
Matrix Spike (W8C1719-MS1)				Source: 8C27007-01		Prepared: 03/28/18 Analyzed: 03/29/18				
Ammonia as N	0.370	0.10	mg/l	0.250	0.124	98	90-110			
Matrix Spike (W8C1719-MS2)				Source: 8C27007-02		Prepared: 03/28/18 Analyzed: 03/29/18				
Ammonia as N	0.267	0.10	mg/l	0.250	ND	107	90-110			
Matrix Spike Dup (W8C1719-MSD1)				Source: 8C27007-01		Prepared: 03/28/18 Analyzed: 03/29/18				
Ammonia as N	0.373	0.10	mg/l	0.250	0.124	100	90-110	0.9	15	
Matrix Spike Dup (W8C1719-MSD2)				Source: 8C27007-02		Prepared: 03/28/18 Analyzed: 03/29/18				
Ammonia as N	0.268	0.10	mg/l	0.250	ND	107	90-110	0.5	15	
Batch: W8C1748 - SM 2540D										
Blank (W8C1748-BLK1)				Prepared: 03/28/18 Analyzed: 03/29/18						
Total Suspended Solids	ND	5	mg/l							
LCS (W8C1748-BS1)				Prepared: 03/28/18 Analyzed: 03/29/18						
Total Suspended Solids	51.0	5	mg/l	56.1		91	90-110			
Duplicate (W8C1748-DUP1)				Source: 8C26027-13		Prepared: 03/28/18 Analyzed: 03/29/18				
Total Suspended Solids	ND	5	mg/l		ND				20	
Duplicate (W8C1748-DUP2)				Source: 8C22075-04		Prepared: 03/28/18 Analyzed: 03/29/18				
Total Suspended Solids	13.0	5	mg/l		13.0			0	20	
Batch: W8C1750 - EPA 160.4										
Blank (W8C1750-BLK1)				Prepared: 03/28/18 Analyzed: 03/29/18						
Volatile Suspended Solids	ND	5.0	mg/l							
LCS (W8C1750-BS1)				Prepared: 03/28/18 Analyzed: 03/29/18						
Volatile Suspended Solids	37	5.0	mg/l	39.9		93	90-110			
Duplicate (W8C1750-DUP1)				Source: 8C26027-13		Prepared: 03/28/18 Analyzed: 03/29/18				
Volatile Suspended Solids	ND	5.0	mg/l		ND				15	
Batch: W8C1790 - SM 5310B										
Blank (W8C1790-BLK1)				Prepared & Analyzed: 03/29/18						
Total Organic Carbon (TOC)	ND	0.10	mg/l							
LCS (W8C1790-BS1)				Prepared & Analyzed: 03/29/18						
Total Organic Carbon (TOC)	1.01	0.10	mg/l	1.00		101	85-115			
Matrix Spike (W8C1790-MS1)				Source: 8C21097-23		Prepared & Analyzed: 03/29/18				
Total Organic Carbon (TOC)	9.60	0.10	mg/l	5.00	4.80	96	76-115			

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Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Quality Control Results

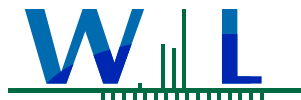
(Continued)

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: W8C1790 - SM 5310B (Continued)										
Matrix Spike Dup (W8C1790-MSD1)				Source: 8C21097-23		Prepared & Analyzed: 03/29/18				
Total Organic Carbon (TOC)	9.99	0.10	mg/l	5.00	4.80	104	76-115	4	20	
Batch: W8D0001 - EPA 420.4										
Blank (W8D0001-BLK1)				Prepared: 04/01/18 Analyzed: 04/04/18						
Phenolics	ND	0.010	mg/l							
LCS (W8D0001-BS1)				Prepared: 04/01/18 Analyzed: 04/04/18						
Phenolics	0.104	0.010	mg/l	0.100		104	90-110			
Matrix Spike (W8D0001-MS1)				Source: 8C22092-01		Prepared: 04/01/18 Analyzed: 04/04/18				
Phenolics	0.268	0.010	mg/l	0.250	0.0210	99	90-110			
Matrix Spike Dup (W8D0001-MSD1)				Source: 8C22092-01		Prepared: 04/01/18 Analyzed: 04/04/18				
Phenolics	0.270	0.010	mg/l	0.250	0.0210	100	90-110	0.8	20	
Batch: W8D0029 - EPA 335.4										
Blank (W8D0029-BLK1)				Prepared: 04/02/18 Analyzed: 04/03/18						
Cyanide, Total	ND	5.0	ug/l							
LCS (W8D0029-BS1)				Prepared: 04/02/18 Analyzed: 04/03/18						
Cyanide, Total	48.0	5.0	ug/l	50.0		96	90-110			
Matrix Spike (W8D0029-MS1)				Source: 8C22099-03		Prepared: 04/02/18 Analyzed: 04/03/18				
Cyanide, Total	104	5.0	ug/l	100	ND	104	90-110			
Matrix Spike Dup (W8D0029-MSD1)				Source: 8C22099-03		Prepared: 04/02/18 Analyzed: 04/03/18				
Cyanide, Total	103	5.0	ug/l	100	ND	103	90-110	1	20	
Batch: W8D0130 - EPA 410.4										
Blank (W8D0130-BLK1)				Prepared: 04/03/18 Analyzed: 04/05/18						
Chemical Oxygen Demand	ND	5.0	mg/l							
LCS (W8D0130-BS1)				Prepared: 04/03/18 Analyzed: 04/05/18						
Chemical Oxygen Demand	95.7	5.0	mg/l	100		96	90-110			
Duplicate (W8D0130-DUP1)				Source: 8C23031-01		Prepared: 04/03/18 Analyzed: 04/05/18				
Chemical Oxygen Demand	1480	20	mg/l		1550			4	15	
Matrix Spike (W8D0130-MS1)				Source: 8C22099-01		Prepared: 04/03/18 Analyzed: 04/05/18				
Chemical Oxygen Demand	239	20	mg/l	200	40.0	99	90-110			
Matrix Spike (W8D0130-MS2)				Source: 8C22099-02		Prepared: 04/03/18 Analyzed: 04/05/18				
Chemical Oxygen Demand	220	20	mg/l	200	20.2	100	90-110			
Matrix Spike Dup (W8D0130-MSD1)				Source: 8C22099-01		Prepared: 04/03/18 Analyzed: 04/05/18				
Chemical Oxygen Demand	231	20	mg/l	200	40.0	95	90-110	3	15	
Matrix Spike Dup (W8D0130-MSD2)				Source: 8C22099-02		Prepared: 04/03/18 Analyzed: 04/05/18				
Chemical Oxygen Demand	221	20	mg/l	200	20.2	101	90-110	0.5	15	
Batch: W8D0485 - EPA 351.2										
Blank (W8D0485-BLK1)				Prepared: 04/06/18 Analyzed: 04/08/18						

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Project Manager: Edmond G. Suher

Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8D0485 - EPA 351.2 (Continued)										
Blank (W8D0485-BLK1)				Prepared: 04/06/18 Analyzed: 04/08/18						
TKN	ND	0.10	mg/l							
LCS (W8D0485-BS1)				Prepared: 04/06/18 Analyzed: 04/08/18						
TKN	0.899	0.10	mg/l	1.00		90	90-110			
Matrix Spike (W8D0485-MS1)				Source: 8C23079-02 Prepared: 04/06/18 Analyzed: 04/08/18						
TKN	3.59	0.40	mg/l	4.00	ND	90	90-110			
Matrix Spike Dup (W8D0485-MSD1)				Source: 8C23079-02 Prepared: 04/06/18 Analyzed: 04/08/18						
TKN	3.80	0.40	mg/l	4.00	ND	95	90-110	6	10	

Hexavalent Chromium by IC

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1788 - EPA 218.6										
Blank (W8C1788-BLK1)				Prepared & Analyzed: 03/29/18						
Chromium 6+	ND	0.020	ug/l							
Chromium 6+, Dissolved	ND	0.020	ug/l							
LCS (W8C1788-BS1)				Prepared & Analyzed: 03/29/18						
Chromium 6+	5.06	0.020	ug/l	5.00		101	90-110			
Chromium 6+, Dissolved	5.06	0.020	ug/l	5.00		101	90-110			
Matrix Spike (W8C1788-MS1)				Source: 8C22099-01 Prepared & Analyzed: 03/29/18						
Chromium 6+	26.4	0.10	ug/l	25.0	0.414	104	88-112			
Chromium 6+, Dissolved	26.4	0.10	ug/l	25.0	0.441	104	88-112			
Matrix Spike Dup (W8C1788-MSD1)				Source: 8C22099-01 Prepared & Analyzed: 03/29/18						
Chromium 6+	26.2	0.10	ug/l	25.0	0.414	103	88-112	0.6	10	
Chromium 6+, Dissolved	26.2	0.10	ug/l	25.0	0.441	103	88-112	0.6	10	



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Quality Control Results

(Continued)

Hydrocarbons by GC/FID

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1782 - EPA 8015D										
Blank (W8C1782-BLK1)				Prepared: 03/29/18 Analyzed: 04/02/18						
Diesel Range Organics	ND	0.10	mg/l							
Oil Range Organics	ND	0.50	mg/l							
<i>Surrogate(s)</i>										
<i>n-Tetracosane</i>		0.233	mg/l	0.250		93	64-155			
LCS (W8C1782-BS1)				Prepared: 03/29/18 Analyzed: 04/02/18						
Diesel Range Organics	0.472	0.10	mg/l	0.500		94	56-136			
<i>Surrogate(s)</i>										
<i>n-Tetracosane</i>		0.243	mg/l	0.250		97	64-155			
LCS Dup (W8C1782-BSD1)				Prepared: 03/29/18 Analyzed: 04/02/18						
Diesel Range Organics	0.473	0.10	mg/l	0.500		95	56-136	0.06	25	
<i>Surrogate(s)</i>										
<i>n-Tetracosane</i>		0.242	mg/l	0.250		97	64-155			

Mercury - Low Level by CVAFS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1712 - EPA 1631E										
Blank (W8C1712-BLK1)				Prepared: 03/28/18 Analyzed: 03/29/18						
Mercury, Dissolved	ND	0.50	ng/l							
Mercury, Total	ND	0.50	ng/l							
LCS (W8C1712-BS1)				Prepared: 03/28/18 Analyzed: 03/29/18						
Mercury, Total	5.29	0.50	ng/l	5.00		106	85-115			
Matrix Spike (W8C1712-MS1)				Source: 8C22007-01 Prepared: 03/28/18 Analyzed: 03/29/18						
Mercury, Total	20.8	0.50	ng/l	5.00	16.0	96	75-125			
Matrix Spike Dup (W8C1712-MSD1)				Source: 8C22007-01 Prepared: 03/28/18 Analyzed: 03/29/18						
Mercury, Total	21.1	0.50	ng/l	5.00	16.0	102	75-125	1	20	



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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: W8D0218 - EPA 200.8

Blank (W8D0218-BLK1)

Prepared: 04/04/18 Analyzed: 04/10/18

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 (W8D0218-BS1)

Prepared: 04/04/18 Analyzed: 04/10/18

Aluminum, Dissolved	48.6	5.0	ug/l	50.0	97	85-115
Aluminum, Total	48.6	5.0	ug/l	50.0	97	85-115
Antimony, Dissolved	47.7	0.50	ug/l	50.0	95	85-115
Antimony, Total	47.7	0.50	ug/l	50.0	95	85-115
Arsenic, Dissolved	48.9	0.40	ug/l	50.0	98	85-115
Arsenic, Total	48.9	0.40	ug/l	50.0	98	85-115
Cadmium, Dissolved	49.4	0.10	ug/l	50.0	99	85-115
Cadmium, Total	49.4	0.10	ug/l	50.0	99	85-115
Chromium, Dissolved	48.7	0.20	ug/l	50.0	97	85-115
Chromium, Total	48.7	0.20	ug/l	50.0	97	85-115
Copper, Dissolved	49.2	0.50	ug/l	50.0	99	85-115
Copper, Total	49.2	0.50	ug/l	50.0	99	85-115
Iron, Dissolved	1080	20	ug/l	1050	103	85-115
Iron, Total	1080	20	ug/l	1050	103	85-115
Lead, Dissolved	49.2	0.20	ug/l	50.0	98	85-115
Lead, Total	49.2	0.20	ug/l	50.0	98	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	Limits	RPD	RPD Limit	Qualifier
Batch: W8D0218 - EPA 200.8 (Continued)										
LCS (W8D0218-BS1)				Prepared: 04/04/18 Analyzed: 04/10/18						
Nickel, Dissolved	49.1	0.80	ug/l	50.0		98	85-115			
Nickel, Total	49.1	0.80	ug/l	50.0		98	85-115			
Zinc, Dissolved	49.4	5.0	ug/l	50.0		99	85-115			
Zinc, Total	49.4	5.0	ug/l	50.0		99	85-115			
Matrix Spike (W8D0218-MS1)				Source: 8C22099-01 Prepared: 04/04/18 Analyzed: 04/10/18						
Aluminum, Total	4830	5.0	ug/l	50.0	4220	NR	70-130			MS-02
Antimony, Total	41.1	0.50	ug/l	50.0	1.28	80	70-130			
Arsenic, Total	54.1	0.40	ug/l	50.0	2.76	103	70-130			
Cadmium, Total	53.3	0.10	ug/l	50.0	0.176	106	70-130			
Chromium, Total	61.2	0.20	ug/l	50.0	7.61	107	70-130			
Copper, Total	72.8	0.50	ug/l	50.0	17.8	110	70-130			
Iron, Total	7550	20	ug/l	1050	5870	161	70-130			MS-02
Lead, Total	64.1	0.20	ug/l	50.0	15.8	97	70-130			
Nickel, Total	60.8	0.80	ug/l	50.0	6.74	108	70-130			
Zinc, Total	166	5.0	ug/l	50.0	104	125	70-130			
Matrix Spike (W8D0218-MS2)				Source: 8C22099-02 Prepared: 04/04/18 Analyzed: 04/10/18						
Aluminum, Total	654	5.0	ug/l	50.0	568	172	70-130			MS-02
Antimony, Total	60.9	0.50	ug/l	50.0	10.9	100	70-130			
Arsenic, Total	49.4	0.40	ug/l	50.0	0.559	98	70-130			
Cadmium, Total	46.4	0.10	ug/l	50.0	0.0440	93	70-130			
Chromium, Total	49.7	0.20	ug/l	50.0	1.34	97	70-130			
Copper, Total	55.1	0.50	ug/l	50.0	6.42	97	70-130			
Iron, Total	1780	20	ug/l	1050	717	102	70-130			
Lead, Total	50.3	0.20	ug/l	50.0	1.55	98	70-130			
Nickel, Total	50.4	0.80	ug/l	50.0	1.56	98	70-130			
Zinc, Total	115	5.0	ug/l	50.0	65.5	100	70-130			
Matrix Spike Dup (W8D0218-MSD1)				Source: 8C22099-01 Prepared: 04/04/18 Analyzed: 04/10/18						
Aluminum, Total	4470	5.0	ug/l	50.0	4220	499	70-130	8	30	MS-02
Antimony, Total	41.8	0.50	ug/l	50.0	1.28	81	70-130	2	30	
Arsenic, Total	51.0	0.40	ug/l	50.0	2.76	97	70-130	6	30	
Cadmium, Total	47.9	0.10	ug/l	50.0	0.176	95	70-130	11	30	
Chromium, Total	57.2	0.20	ug/l	50.0	7.61	99	70-130	7	30	
Copper, Total	67.7	0.50	ug/l	50.0	17.8	100	70-130	7	30	
Iron, Total	7020	20	ug/l	1050	5870	110	70-130	7	30	
Lead, Total	66.0	0.20	ug/l	50.0	15.8	101	70-130	3	30	
Nickel, Total	56.4	0.80	ug/l	50.0	6.74	99	70-130	8	30	
Zinc, Total	154	5.0	ug/l	50.0	104	100	70-130	8	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	Limits	RPD	RPD Limit	Qualifier
Batch: W8D0218 - EPA 200.8 (Continued)										
Matrix Spike Dup (W8D0218-MSD1)			Source: 8C22099-01		Prepared: 04/04/18 Analyzed: 04/10/18					
Matrix Spike Dup (W8D0218-MSD2)			Source: 8C22099-02		Prepared: 04/04/18 Analyzed: 04/10/18					
Aluminum, Total	654	5.0	ug/l	50.0	568	172	70-130	0.05	30	MS-02
Antimony, Total	61.4	0.50	ug/l	50.0	10.9	101	70-130	1	30	
Arsenic, Total	49.9	0.40	ug/l	50.0	0.559	99	70-130	1	30	
Cadmium, Total	47.2	0.10	ug/l	50.0	0.0440	94	70-130	2	30	
Chromium, Total	50.3	0.20	ug/l	50.0	1.34	98	70-130	1	30	
Copper, Total	56.2	0.50	ug/l	50.0	6.42	100	70-130	2	30	
Iron, Total	1770	20	ug/l	1050	717	100	70-130	0.9	30	
Lead, Total	51.8	0.20	ug/l	50.0	1.55	100	70-130	3	30	
Nickel, Total	51.1	0.80	ug/l	50.0	1.56	99	70-130	1	30	
Zinc, Total	116	5.0	ug/l	50.0	65.5	100	70-130	0.2	30	
Batch: W8D0222 - EPA 200.7										
Blank (W8D0222-BLK1)			Prepared: 04/04/18 Analyzed: 04/05/18							
Calcium, Total	ND	0.100	mg/l							
LCS (W8D0222-BS1)			Prepared: 04/04/18 Analyzed: 04/05/18							
Calcium, Total	50.7	0.100	mg/l	50.0		101	85-115			
Matrix Spike (W8D0222-MS1)			Source: 8C22099-03		Prepared: 04/04/18 Analyzed: 04/05/18					
Calcium, Total	56.0	0.100	mg/l	50.0	4.64	103	70-130			
Matrix Spike Dup (W8D0222-MSD1)			Source: 8C22099-03		Prepared: 04/04/18 Analyzed: 04/05/18					
Calcium, Total	55.8	0.100	mg/l	50.0	4.64	102	70-130	0.4	30	



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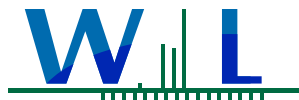
Project Manager: Edmond G. Suher

Quality Control Results

(Continued)

Microbiological Parameters by Standard Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8D1609 - Enterolert										
Blank (W8D1609-BLK1)				Prepared: 03/21/18 Analyzed: 03/22/18						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W8D1609-BLK2)				Prepared: 03/22/18 Analyzed: 03/23/18						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W8D1609-BLK3)				Prepared: 03/22/18 Analyzed: 03/23/18						
Enterococcus	ND	1.0	MPN/100ml							
Batch: W8D1611 - SM 9221F										
Blank (W8D1611-BLK1)				Prepared: 03/21/18 Analyzed: 04/22/18						
E. coli	ND	1.8	MPN/100ml							
Fecal Coliform	ND	1.8	MPN/100ml							
Total Coliform	ND	1.8	MPN/100ml							
Blank (W8D1611-BLK2)				Prepared: 03/22/18 Analyzed: 04/25/18						
E. coli	ND	1.8	MPN/100ml							
Fecal Coliform	ND	1.8	MPN/100ml							
Total Coliform	ND	1.8	MPN/100ml							
Blank (W8D1611-BLK3)				Prepared: 03/22/18 Analyzed: 04/25/18						
E. coli	ND	1.8	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	Limits	RPD	Limit	Qualifier
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Batch: W8C1685 - EPA 625.1

Blank (W8C1685-BLK1)

Prepared: 03/28/18 Analyzed: 03/30/18

1-Methylnaphthalene	ND	5.0	ng/l
1-Methylphenanthrene	ND	5.0	ng/l
2,6-Dimethylnaphthalene	ND	5.0	ng/l
2-Methylnaphthalene	ND	5.0	ng/l
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 (e) pyrene	ND	5.0	ng/l
Benzo (g,h,i) perylene	ND	5.0	ng/l
Benzo (k) fluoranthene	ND	5.0	ng/l
Biphenyl	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
Perylene	ND	5.0	ng/l
Phenanthrene	ND	5.0	ng/l
Pyrene	ND	5.0	ng/l

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	77.0	ng/l	100	77	50-150
Perylene-d12	77.5	ng/l	100	78	50-150

LCS (W8C1685-BS1)

Prepared: 03/28/18 Analyzed: 04/02/18

Acenaphthene	40.3	5.0	ng/l	50.0	81	50-150
Acenaphthylene	42.2	5.0	ng/l	50.0	84	50-150
Anthracene	40.6	5.0	ng/l	50.0	81	50-150
Benzo (a) anthracene	45.1	5.0	ng/l	50.0	90	50-150
Benzo (a) pyrene	40.3	5.0	ng/l	50.0	81	50-150
Benzo (b) fluoranthene	39.9	5.0	ng/l	50.0	80	50-150
Benzo (g,h,i) perylene	35.5	5.0	ng/l	50.0	71	50-150
Benzo (k) fluoranthene	37.6	5.0	ng/l	50.0	75	50-150
Chrysene	43.4	5.0	ng/l	50.0	87	50-150
Dibenzo (a,h) anthracene	37.2	5.0	ng/l	50.0	74	50-150

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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 Mon.

Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher

Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1685 - EPA 625.1 (Continued)										
LCS (W8C1685-BS1)				Prepared: 03/28/18 Analyzed: 04/02/18						
Fluoranthene	40.4	5.0	ng/l	50.0		81	50-150			
Fluorene	41.0	5.0	ng/l	50.0		82	50-150			
Indeno (1,2,3-cd) pyrene	41.5	5.0	ng/l	50.0		83	50-150			
Naphthalene	41.7	5.0	ng/l	50.0		83	50-150			
Phenanthrene	40.5	5.0	ng/l	50.0		81	50-150			
Pyrene	37.5	5.0	ng/l	50.0		75	50-150			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		88.0	ng/l	100		88	50-150			
Perylene-d12		77.6	ng/l	100		78	50-150			
Matrix Spike (W8C1685-MS1)				Source: 8C21103-01 Prepared: 03/28/18 Analyzed: 03/30/18						
Acenaphthene	209	25	ng/l	250	ND	84	50-150			
Acenaphthylene	213	25	ng/l	250	ND	85	50-150			
Anthracene	210	25	ng/l	250	ND	84	50-150			
Benzo (a) anthracene	201	25	ng/l	250	ND	80	50-150			
Benzo (a) pyrene	148	25	ng/l	250	3.15	58	50-150			
Benzo (b) fluoranthene	153	25	ng/l	250	ND	61	50-150			
Benzo (g,h,i) perylene	108	25	ng/l	250	7.19	40	50-150			MS-05
Benzo (k) fluoranthene	134	25	ng/l	250	ND	54	50-150			
Chrysene	185	25	ng/l	250	8.69	70	50-150			
Dibenzo (a,h) anthracene	129	25	ng/l	250	ND	52	50-150			
Fluoranthene	224	25	ng/l	250	14.0	84	50-150			
Fluorene	215	25	ng/l	250	6.18	83	50-150			
Indeno (1,2,3-cd) pyrene	152	25	ng/l	250	5.55	58	50-150			
Naphthalene	224	25	ng/l	250	17.1	83	50-150			
Phenanthrene	219	25	ng/l	250	23.8	78	50-150			
Pyrene	233	25	ng/l	250	15.4	87	50-150			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		544	ng/l	500		109	50-150			
Perylene-d12		370	ng/l	500		74	50-150			
Matrix Spike Dup (W8C1685-MSD1)				Source: 8C21103-01 Prepared: 03/28/18 Analyzed: 03/30/18						
Acenaphthene	215	25	ng/l	250	ND	86	50-150	3	30	
Acenaphthylene	225	25	ng/l	250	ND	90	50-150	6	30	
Anthracene	214	25	ng/l	250	ND	86	50-150	2	30	
Benzo (a) anthracene	200	25	ng/l	250	ND	80	50-150	0.9	30	
Benzo (a) pyrene	134	25	ng/l	250	3.15	52	50-150	10	30	
Benzo (b) fluoranthene	147	25	ng/l	250	ND	59	50-150	4	30	
Benzo (g,h,i) perylene	91.9	25	ng/l	250	7.19	34	50-150	16	30	MS-05
Benzo (k) fluoranthene	123	25	ng/l	250	ND	49	50-150	9	30	MS-05

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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 Mon.

Reported:

04/27/2018 15:14

Project Manager: Edmond G. Suher



Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1685 - EPA 625.1 (Continued)										
Matrix Spike Dup (W8C1685-MSD1)			Source: 8C21103-01		Prepared: 03/28/18 Analyzed: 03/30/18					
Chrysene	179	25	ng/l	250	8.69	68	50-150	3	30	
Dibenzo (a,h) anthracene	112	25	ng/l	250	ND	45	50-150	15	30	MS-05
Fluoranthene	227	25	ng/l	250	14.0	85	50-150	1	30	
Fluorene	225	25	ng/l	250	6.18	88	50-150	5	30	
Indeno (1,2,3-cd) pyrene	132	25	ng/l	250	5.55	51	50-150	14	30	
Naphthalene	242	25	ng/l	250	17.1	90	50-150	8	30	
Phenanthrene	226	25	ng/l	250	23.8	81	50-150	3	30	
Pyrene	226	25	ng/l	250	15.4	84	50-150	3	30	
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		606	ng/l	500		121	50-150			
Perylene-d12		356	ng/l	500		71	50-150			



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Project Number: IRWINDALE SW Outfall Mon.

Project Manager: Edmond G. Suher

Reported:
04/27/2018 15:14



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-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.
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.

Weck Laboratories, Inc.

Weck Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Pink - For Client



Analytical Service Quotation

Contact: Ed Suher
Client Name: AEI-CASC Consulting
Address: 2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505
Phone: (818) 841-9004
Fax: (818) 841-8013

Printed: 10/18/2017**Effective:** 10/17/17**Expires:** 06/30/18**Project:** MS4 - Storm Water Monitoring 2017-2018

Code	Method	Qty	TAT* (workdays)	Unit Price	Extended Price
Water					
200.7 Hardness	_Varies	1	15	\$15.00	\$15.00
Alkalinity, total - SM 2320B	SM 2320B	1	15	\$5.00	\$5.00
Aluminum - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Aluminum, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Ammonia-N - EPA 350.1	EPA 350.1	1	15	\$15.00	\$15.00
Antimony - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Antimony, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Arsenic - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Arsenic, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Biochemical Oxygen Demand - SM5210B	SM 5210B	1	15	\$40.00	\$40.00
Cadmium - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Cadmium, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Chemical Oxygen Demand - EPA 410.4	EPA 410.4	1	15	\$20.00	\$20.00
Chloride - EPA 300.0	EPA 300.0	1	15	\$15.00	\$15.00
Chromium - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Chromium, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Chromium, Hexavalent - EPA 218.6	EPA 218.6	1	15	\$35.00	\$35.00
Chromium, Hexavalent, dissolved - EPA 218.6	EPA 218.6	1	15	\$50.00	\$50.00
Copper - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Copper, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Cyanide, Total - ASTM D 7511	ASTM D7511	1	15	\$40.00	\$40.00
Dissolved Oxygen - SM 4500O-G	SM 4500O-G	1	15	\$15.00	\$15.00
E.Coli Coliform by Enumeration SM9221 F	SM 9221F	1	15	\$20.00	\$20.00
Enterococcus - Enterolert	Enterolert	1	15	\$35.00	\$35.00
EPA 515.3 - Chlorinated Acid Herbicides	EPA 515.3	1	15	\$100.00	\$100.00
EPA 8015B - Diesel & Oil Range Organics (DRO/ORO)	EPA 8015D	1	15	\$45.00	\$45.00
Fecal Coliform by Enumeration SM9221E 3 dilutions	SM 9221E	1	15	\$25.00	\$25.00
Iron - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Iron, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Lead - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Lead, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
MBAS - SM 5540 C	SM 5540C	1	15	\$30.00	\$30.00
Mercury, Diss, low-level - EPA 1631E	EPA 1631E	1	15	\$100.00	\$100.00
Mercury, total, low-level - EPA 1631E	EPA 1631E	1	15	\$100.00	\$100.00
Nickel - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Nickel, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Nitrite+Nitrate-N - EPA 300.0	EPA 300.0	1	15	\$15.00	\$15.00
PAHs low level in water by GC/MS/MS	GC/MS/MS	1	15	\$215.00	\$215.00
Phenolics in water - EPA 420.4	EPA 420.4	1	15	\$45.00	\$45.00
Phosphorus Dissolved - EPA 365.3	EPA 365.3	1	15	\$40.00	\$40.00



Code	Method	Qty	TAT* (workdays)	Unit Price	Extended Price
Phosphorus, Total as P - EPA 365.1	EPA 365.1	1	15	\$30.00	\$30.00
Specific Conductance (EC) - SM 2510B	SM 2510B	1	15	\$25.00	\$25.00
Sulfate - EPA 300.0	EPA 300.0	1	15	\$15.00	\$15.00
Total Coliforms by Enumeration SM9221B 3 dil.	SM 9221B	1	15	\$45.00	\$45.00
Total Dissolved Solids - SM 2540C	SM 2540C	1	15	\$15.00	\$15.00
Total Kjeldahl Nitrogen by EPA 351.2	EPA 351.2	1	15	\$35.00	\$35.00
Total Organic Carbon - SM 5310C	SM 5310C	1	15	\$35.00	\$35.00
Total Suspended Solids - SM2540D	SM 2540D	1	15	\$15.00	\$15.00
Turbidity - EPA 180.1	EPA 180.1	1	15	\$10.00	\$10.00
Volatile Suspended Solids - 160.4	EPA 160.4	1	15	\$15.00	\$15.00
Zinc - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Zinc, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Additional Items (if requested or applicable, will be charged at listed rates)					
Afterhours - Holiday 10p before-8a after /hr/empl		1		\$400.00	\$400.00
Afterhours - Rain Event - Standby flat fee		1		\$300.00	\$300.00
Afterhours - Weekday 10p-8a /hour/employee		1		\$300.00	\$300.00
Afterhours - Weekday 6p-10p /hour/employee		1		\$200.00	\$200.00
Afterhours - Weekend 10p Fri-8a Mon /hr/empl		1		\$300.00	\$300.00
Extra per micro dilution		1		\$10.00	\$10.00
Filtration Fee		1		\$15.00	\$15.00

Bid Total: \$2,985.00

200.7 Hardness consists of:

Calcium - EPA 200.7

Marilyn Romero

Client Services Manager

* Subject to Capacity

Payment terms are NET 30 days from invoice date. New accounts require payment prior to the release of test results until a credit application has been approved. Weck Laboratories accepts credit card payments (VISA/Master Card, American Express). Credit application/credit card approval form and Weck Laboratories' terms & conditions can be found at www.wecklabs.com under Resources. Paperless reports (PDF) are included while mailed paper reports are available at additional cost.

Method Reporting Limits (MRL) and Method Detection Limits (MDL) are based upon specified sample volume or weight. When matrix interferences are apparent, sample amounts may be reduced during the preparation step and/or may be diluted prior to analysis. This is done to reduce analytical interference and instrumental contamination and will result in elevated MRL/MDL on the test report.