WECK LABORATORIES, INC.

Certificate of Analysis

PRELIMINARY REPORT

Work Orders: 7A12003

Project: Carlsbad Desal Plant - QUARTERLY

Attn: Peter Shen

Client: IDE Americas, Inc. - Carlsbad CA
4590 Carlsbad Blvd
Carlsbad, CA 92008

Report Date: 3/13/2017
Received Date: 1/12/2017
Turnaround Time: Normal
Phones: 1(619) 487-0760
Fax:
P.O. #:
Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A

This is a preliminary report and is produced for review and guidance purpose only and should not be considered final. Information in this report may be missing or may be changed. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories DOES NOT certify that the test results meet all requirements of TNI. Neither Weck Laboratories, Inc. nor any of its employees, contractors, subcontractors, or their employees make any warrant, expressed or implied, or assume any legal liability or responsibility for use of any information inscribed in this report.

Dear Peter Shen,

Enclosed are the results of analyses for samples received 1/12/17 with the Chain-of-Custody document. The samples were received in good condition, at 1.1 °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:

DRAFT REPORT
DATA SUBJECT TO CHANGE

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IDE Americas, Inc. - Carlsbad CA
4590 Carlsbad Blvd
Carlsbad, CA 92008

Project Number: Carlsbad Desal Plant - QUARTERLY

Project Manager: Peter Shen

Reported:
03/13/2017 10:14

Sample Summary

Sample ID	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
M-001 (16-2828)	KC/VH	7A12003-01	Water	01/10/17 12:45	

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
EPA 1640 in Sea Water		
Antimony, Total	7440-36-0	NELAP
EPA 1640 in Water		
Selenium, Total	7782-49-2	NELAP
Field in Water		
pH	PH	NELAP
Temperature, Degrees F		NELAP
Krone, et al, 1989 in Water		
Tri-n-butyltin	688-73-3	NELAP
Tripentyltin	41784-41-2	NELAP

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Project Number: Carlsbad Desal Plant - QUARTERLY

Project Manager: Peter Shen

Reported: 03/13/2017 10:14

Sample Results

Sample: M-001 (16-2828)
7A12003-01 (Water)

Sampled: 01/10/17 12:45 by KC/VH

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by EPA Method 625							
Method: EPA 625	**Batch ID:** W7A1989		**Prepared:** 01/14/17 09:01				**Analyst:** etn
1,2,4-Trichlorobenzene	ND	0.55	1.0	ug/l	1	01/25/17 14:29	
1,2-Dichlorobenzene	ND	0.57	1.0	ug/l	1	01/25/17 14:29	
1,2-Diphenylhydrazine/Azobenzene	ND	0.25	1.0	ug/l	1	01/25/17 14:29	
1,3-Dichlorobenzene	ND	0.53	1.0	ug/l	1	01/25/17 14:29	
1,4-Dichlorobenzene	ND	0.55	1.0	ug/l	1	01/25/17 14:29	
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l	1	01/25/17 14:29	
2,4-Dichlorophenol	ND	0.26	1.0	ug/l	1	01/25/17 14:29	
2,4-Dimethylphenol	ND	0.30	1.0	ug/l	1	01/25/17 14:29	
2,4-Dinitrophenol	ND	1.6	10	ug/l	1	01/25/17 14:29	
2,4-Dinitrotoluene	ND	0.18	1.0	ug/l	1	01/25/17 14:29	
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l	1	01/25/17 14:29	
2-Chloronaphthalene	ND	0.45	1.0	ug/l	1	01/25/17 14:29	
2-Chlorophenol	ND	0.28	1.0	ug/l	1	01/25/17 14:29	
2-Nitrophenol	ND	0.26	1.0	ug/l	1	01/25/17 14:29	
3,3'-Dichlorobenzidine	ND	1.2	5.0	ug/l	1	01/25/17 14:29	
4,6-Dinitro-2-methylphenol	ND	1.7	5.0	ug/l	1	01/25/17 14:29	
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l	1	01/25/17 14:29	
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l	1	01/25/17 14:29	
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l	1	01/25/17 14:29	
4-Nitrophenol	ND	0.45	5.0	ug/l	1	01/25/17 14:29	
Acenaphthene	ND	0.38	1.0	ug/l	1	01/25/17 14:29	
Acenaphthylene	ND	0.40	1.0	ug/l	1	01/25/17 14:29	
Anthracene	ND	0.34	1.0	ug/l	1	01/25/17 14:29	
Benzidine	ND	3.7	10	ug/l	1	01/25/17 14:29	
Benzo (a) anthracene	ND	0.19	1.0	ug/l	1	01/25/17 14:29	
Benzo (a) pyrene	ND	0.13	1.0	ug/l	1	01/25/17 14:29	
Benzo (b) fluoranthene	ND	0.14	1.0	ug/l	1	01/25/17 14:29	
Benzo (g,h,i) perylene	ND	0.10	2.0	ug/l	1	01/25/17 14:29	
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l	1	01/25/17 14:29	
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l	1	01/25/17 14:29	
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l	1	01/25/17 14:29	
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l	1	01/25/17 14:29	
Bis(2-ethylhexyl)phthalate	**17**	2.3	5.0	ug/l	1	01/25/17 14:29	
Butyl benzyl phthalate	ND	0.18	1.0	ug/l	1	01/25/17 14:29	
Chrysene	ND	0.19	1.0	ug/l	1	01/25/17 14:29	
Dibenzo (a,h) anthracene	ND	0.080	2.0	ug/l	1	01/25/17 14:29	

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Sample Results

(Continued)

Sample: M-001 (16-2828)
7A12003-01 (Water)

Sampled: 01/10/17 12:45 by KC/VH

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by EPA Method 625 (Continued)							
Diethyl phthalate	ND	0.15	1.0	ug/l	1	01/25/17 14:29	
Dimethyl phthalate	ND	0.18	1.0	ug/l	1	01/25/17 14:29	
Di-n-butyl phthalate	ND	0.24	1.0	ug/l	1	01/25/17 14:29	
Di-n-octyl phthalate	ND	0.19	1.0	ug/l	1	01/25/17 14:29	
Fluoranthene	ND	0.22	1.0	ug/l	1	01/25/17 14:29	
Fluorene	ND	0.35	1.0	ug/l	1	01/25/17 14:29	
Hexachlorobenzene	ND	0.49	1.0	ug/l	1	01/25/17 14:29	
Hexachlorobutadiene	ND	0.47	1.0	ug/l	1	01/25/17 14:29	
Hexachlorocyclopentadiene	ND	1.5	5.0	ug/l	1	01/25/17 14:29	
Hexachloroethane	ND	0.52	1.0	ug/l	1	01/25/17 14:29	
Indeno (1,2,3-cd) pyrene	ND	0.12	2.0	ug/l	1	01/25/17 14:29	
Isophorone	ND	0.21	1.0	ug/l	1	01/25/17 14:29	
Naphthalene	ND	0.49	1.0	ug/l	1	01/25/17 14:29	
Nitrobenzene	ND	0.36	1.0	ug/l	1	01/25/17 14:29	
N-Nitrosodimethylamine	ND	0.14	1.0	ug/l	1	01/25/17 14:29	
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l	1	01/25/17 14:29	
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l	1	01/25/17 14:29	
Pentachlorophenol	ND	0.19	1.0	ug/l	1	01/25/17 14:29	
Phenanthrene	ND	0.32	1.0	ug/l	1	01/25/17 14:29	
Phenol	ND	0.16	1.0	ug/l	1	01/25/17 14:29	
Pyrene	ND	0.25	1.0	ug/l	1	01/25/17 14:29	
Surrogate(s)							
2,4,6-Tribromophenol	*72%*	*Conc: 7.24*	*25-102*			*01/25/17 14:29*	
2-Fluorobiphenyl	*64%*	*Conc: 3.19*	*22-107*			*01/25/17 14:29*	
2-Fluorophenol	*54%*	*Conc: 5.44*	*3-74*			*01/25/17 14:29*	
Nitrobenzene-d5	*62%*	*Conc: 3.12*	*27-111*			*01/25/17 14:29*	
Phenol-d5	*52%*	*Conc: 5.19*	*0.1-53*			*01/25/17 14:29*	
Terphenyl-d14	*66%*	*Conc: 3.31*	*28-113*			*01/25/17 14:29*	
Chlorinated Pesticides and/or PCBs							
Method: EPA 608	**Batch ID:** W7A1850		**Prepared:** 01/12/17 14:31				**Analyst:** rmr
2,4'-DDD	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
2,4'-DDE	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
2,4'-DDT	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
4,4´-DDD	ND	3.0	5.0	ng/l	1	01/21/17 12:49	
4,4´-DDE	ND	2.5	5.0	ng/l	1	01/21/17 12:49	
4,4´-DDT	ND	3.1	5.0	ng/l	1	01/21/17 12:49	
Aldrin	ND	1.5	5.0	ng/l	1	01/21/17 12:49	
alpha-BHC	ND	1.8	5.0	ng/l	1	01/21/17 12:49	

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Sample Results

(Continued)

Sample: M-001 (16-2828)
7A12003-01 (Water)

Sampled: 01/10/17 12:45 by KC/VH

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs (Continued)							
alpha-Chlordane	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
Aroclor 1016	ND	50	100	ng/l	1	01/21/17 12:49	
Aroclor 1221	ND	60	100	ng/l	1	01/21/17 12:49	
Aroclor 1232	ND	100	100	ng/l	1	01/21/17 12:49	
Aroclor 1242	ND	70	100	ng/l	1	01/21/17 12:49	
Aroclor 1248	ND	60	100	ng/l	1	01/21/17 12:49	
Aroclor 1254	ND	40	100	ng/l	1	01/21/17 12:49	
Aroclor 1260	ND	40	100	ng/l	1	01/21/17 12:49	
beta-BHC	ND	3.1	5.0	ng/l	1	01/21/17 12:49	
Chlordane (tech)	ND	50	100	ng/l	1	01/21/17 12:49	
cis-Nonachlor	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
delta-BHC	ND	2.5	5.0	ng/l	1	01/21/17 12:49	
Dieldrin	ND	2.1	5.0	ng/l	1	01/21/17 12:49	
Endosulfan I	ND	1.7	5.0	ng/l	1	01/21/17 12:49	
Endosulfan II	ND	1.9	5.0	ng/l	1	01/21/17 12:49	
Endosulfan sulfate	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
Endrin	ND	2.8	5.0	ng/l	1	01/21/17 12:49	
Endrin aldehyde	ND	3.0	5.0	ng/l	1	01/21/17 12:49	
gamma-BHC (Lindane)	ND	2.1	5.0	ng/l	1	01/21/17 12:49	
gamma-Chlordane	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
Heptachlor	ND	1.7	5.0	ng/l	1	01/21/17 12:49	
Heptachlor epoxide	ND	1.9	5.0	ng/l	1	01/21/17 12:49	
Methoxychlor	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
Mirex	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
Toxaphene	ND	120	500	ng/l	1	01/21/17 12:49	
trans-Nonachlor	ND	5.0	5.0	ng/l	1	01/21/17 12:49	
Surrogate(s)							
Decachlorobiphenyl	*66%*	*Conc: 65.9*	*0.1-118*			*01/21/17 12:49*	
Tetrachloro-meta-xylene	*70%*	*Conc: 69.9*	*12-117*			*01/21/17 12:49*	
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods							
Method: EPA 335.4	**Batch ID:** W7A2028		**Prepared:** 01/16/17 09:23				**Analyst:** mbc
Cyanide, Total	ND	2.7	5.0	ug/l	1	01/19/17 10:29	
Method: EPA 350.1	**Batch ID:** W7A2262		**Prepared:** 01/18/17 19:58				**Analyst:** mnq
Ammonia as N	ND	0.048	0.10	mg/l	1	01/24/17 16:58	
Method: SM 4500H+-B	**Batch ID:** W7A1879		**Prepared:** 01/12/17 17:39				**Analyst:** dmn
pH	**7.72**	0.10	0.10	Units	1	01/12/17 22:05	*
Field Determinations							
Method: Field	**Batch ID:** W7A1834		**Prepared:** 01/10/17 12:45				**Analyst:** _clnt

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Reported: 03/13/2017 10:14

Sample Results (Continued)

Sample: M-001 (16-2828)
7A12003-01 (Water)

Sampled: 01/10/17 12:45 by KC/VH
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Field Determinations (Continued)							
pH	**8.00**			pH Units	1	01/10/17 12:45	
Temperature, Degrees F	**64.8**			°F	1	01/10/17 12:45	
Hexavalent Chromium by IC							
Method: EPA 218.6	**Batch ID:** W7A2611		**Prepared:** 01/24/17 07:29				**Analyst:** blg
Chromium 6+	ND	0.0048	0.020	ug/l	1	01/24/17 08:00	
Mercury - Low Level by CVAFS							
Method: EPA 1631E	**Batch ID:** W7A2601		**Prepared:** 01/12/17 10:37				**Analyst:** gza
Mercury, Total	ND	0.31	0.50	ng/l	1	01/25/17 11:02	
Metals - Low Level by 1600 Series Methods							
Method: EPA 1640	**Batch ID:** W7A1855		**Prepared:** 01/12/17 14:52				**Analyst:** mtt
Selenium, Total	ND	0.034	0.10	ug/l	1	01/19/17 14:15	
Silver, Total	ND	0.018	0.050	ug/l	1	01/19/17 14:15	
Method: EPA 1640	**Batch ID:** W7A2387		**Prepared:** 01/20/17 12:56				**Analyst:** gza
Cadmium, Total	**0.023**	0.0017	0.010	ug/l	1	01/23/17 22:23	
Copper, Total	**0.41**	0.0038	0.010	ug/l	1	01/23/17 22:23	
Lead, Total	**0.092**	0.0014	0.010	ug/l	1	01/23/17 22:23	
Nickel, Total	**0.67**	0.0040	0.010	ug/l	1	01/23/17 22:23	
Zinc, Total	**0.74**	0.036	0.20	ug/l	1	01/23/17 22:23	
Method: EPA 1640	**Batch ID:** W7A2468		**Prepared:** 01/22/17 14:52				**Analyst:** mtt
Antimony, Total	**0.25**	0.18	0.40	ug/l	2	02/01/17 16:36	M-04, J
Arsenic, Total	**0.84**	0.012	0.050	ug/l	1	02/01/17 16:26	
Beryllium, Total	ND	0.039	0.050	ug/l	1	02/01/17 16:26	
Chromium, Total	**0.33**	0.034	0.30	ug/l	1	02/01/17 16:26	
Thallium, Total	ND	0.022	0.10	ug/l	2	02/01/17 16:36	M-04
Metals by EPA 200 Series Methods							
Method: Calculation	**Batch ID:** W7B0382		**Prepared:** 02/07/17 09:38				**Analyst:** jck
Chromium 3+	**0.33**		0.20	ug/l	1	02/07/17 09:39	
Organo Tin by GC/MS							
Method: Krone, et al, 1989	**Batch ID:** W7A2281		**Prepared:** 01/19/17 09:55				**Analyst:** EFC
Tri-n-butyltin	**0.0013**	0.0012	0.0050	ug/l	1	01/27/17 18:13	J
Surrogate(s) *Tripentyltin*	*242%*	*Conc: 0.509*	*43-179*			*01/27/17 18:13*	*A-01b*
Radiological Parameters by APHA/EPA Methods							
Method: SM 7110C	**Batch ID:** W7A2033		**Prepared:** 01/16/17 10:00				**Analyst:** jea
Gross Alpha	**2.75**			pCi/L	1	01/18/17 11:07	
Uncertainty: 0.188	**MDA:** 0.034						
Volatile Organics by EPA Method 624							
Method: EPA 624	**Batch ID:** W7A2016		**Prepared:** 01/16/17 08:11				**Analyst:** rdt

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Sample Results

(Continued)

Sample: M-001 (16-2828)
7A12003-01 (Water)

Sampled: 01/10/17 12:45 by KC/VH

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by EPA Method 624 (Continued)							
1,1,1-Trichloroethane	ND	0.38	1.0	ug/l	1	01/16/17 15:35	
1,1,2,2-Tetrachloroethane	ND	0.18	1.0	ug/l	1	01/16/17 15:35	
1,1,2-Trichloroethane	ND	0.25	1.0	ug/l	1	01/16/17 15:35	
1,1-Dichloroethane	ND	0.21	1.0	ug/l	1	01/16/17 15:35	
1,1-Dichloroethene	ND	0.39	1.0	ug/l	1	01/16/17 15:35	
1,2-Dichloroethane	ND	0.24	1.0	ug/l	1	01/16/17 15:35	
1,2-Dichloropropane	ND	0.18	1.0	ug/l	1	01/16/17 15:35	
2-Butanone	ND	0.47	5.0	ug/l	1	01/16/17 15:35	
2-Chloroethyl vinyl ether	ND	0.28	1.0	ug/l	1	01/16/17 15:35	
2-Hexanone	ND	0.48	5.0	ug/l	1	01/16/17 15:35	
4-Methyl-2-pentanone	ND	0.52	5.0	ug/l	1	01/16/17 15:35	
Acetone	ND	0.79	5.0	ug/l	1	01/16/17 15:35	
Acrolein	ND	2.2	5.0	ug/l	1	01/16/17 15:35	
Acrylonitrile	ND	1.8	2.0	ug/l	1	01/16/17 15:35	
Benzene	ND	0.23	1.0	ug/l	1	01/16/17 15:35	
Bromodichloromethane	ND	0.28	1.0	ug/l	1	01/16/17 15:35	
Bromoform	ND	0.32	1.0	ug/l	1	01/16/17 15:35	
Bromomethane	ND	0.47	1.0	ug/l	1	01/16/17 15:35	
Carbon Disulfide	ND	0.36	1.0	ug/l	1	01/16/17 15:35	
Carbon tetrachloride	ND	0.33	1.0	ug/l	1	01/16/17 15:35	
Chlorobenzene	ND	0.21	1.0	ug/l	1	01/16/17 15:35	
Chloroethane	ND	0.23	1.0	ug/l	1	01/16/17 15:35	
Chloroform	ND	0.25	1.0	ug/l	1	01/16/17 15:35	
Chloromethane	ND	0.26	1.0	ug/l	1	01/16/17 15:35	
cis-1,3-Dichloropropene	ND	0.22	1.0	ug/l	1	01/16/17 15:35	
Dibromochloromethane	ND	0.38	1.0	ug/l	1	01/16/17 15:35	
Dichlorodifluoromethane (Freon 12)	ND	0.44	1.0	ug/l	1	01/16/17 15:35	
Ethylbenzene	ND	0.17	1.0	ug/l	1	01/16/17 15:35	
m-Dichlorobenzene	ND	0.35	1.0	ug/l	1	01/16/17 15:35	
Methyl tert-butyl ether (MTBE)	ND	0.25	1.0	ug/l	1	01/16/17 15:35	
Methylene chloride	ND	0.25	1.0	ug/l	1	01/16/17 15:35	
o-Dichlorobenzene	ND	0.33	1.0	ug/l	1	01/16/17 15:35	
p-Dichlorobenzene	ND	0.37	1.0	ug/l	1	01/16/17 15:35	
Tetrachloroethene	ND	0.27	1.0	ug/l	1	01/16/17 15:35	
Toluene	ND	0.22	1.0	ug/l	1	01/16/17 15:35	
trans-1,2-Dichloroethene	ND	0.23	1.0	ug/l	1	01/16/17 15:35	
trans-1,3-Dichloropropene	ND	0.32	1.0	ug/l	1	01/16/17 15:35	

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03/13/2017 10:14

Sample Results

(Continued)

Sample: M-001 (16-2828)
7A12003-01 (Water)

Sampled: 01/10/17 12:45 by KC/VH

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by EPA Method 624 (Continued)							
Trichloroethene	ND	0.37	1.0	ug/l	1	01/16/17 15:35	
Trichlorofluoromethane	ND	0.53	1.0	ug/l	1	01/16/17 15:35	
Vinyl chloride	ND	0.33	1.0	ug/l	1	01/16/17 15:35	
Surrogate(s)							
1,2-Dichloroethane-d4	*112%*	*Conc: 56.2*	*82-125*			*01/16/17 15:35*	
4-Bromofluorobenzene	*99%*	*Conc: 49.4*	*88-108*			*01/16/17 15:35*	
Toluene-d8	*102%*	*Conc: 50.8*	*92-112*			*01/16/17 15:35*	

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Carlsbad, CA 92008

Project Number: Carlsbad Desal Plant - QUARTERLY

Project Manager: Peter Shen

Reported: 03/13/2017 10:14

Quality Control Results

Acid and Base/Neutral Extractables by EPA Method 625

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625										
Blank (W7A1989-BLK1)				**Prepared: 01/14/17 Analyzed: 01/25/17**						
1,2,4-Trichlorobenzene	ND	0.55	ug/l							
1,2-Dichlorobenzene	ND	0.57	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	0.25	ug/l							
1,3-Dichlorobenzene	ND	0.53	ug/l							
1,4-Dichlorobenzene	ND	0.55	ug/l							
2,4,6-Trichlorophenol	ND	0.22	ug/l							
2,4-Dichlorophenol	ND	0.26	ug/l							
2,4-Dimethylphenol	ND	0.30	ug/l							
2,4-Dinitrophenol	ND	1.6	ug/l							
2,4-Dinitrotoluene	ND	0.18	ug/l							
2,6-Dinitrotoluene	ND	0.27	ug/l							
2-Chloronaphthalene	ND	0.45	ug/l							
2-Chlorophenol	ND	0.28	ug/l							
2-Nitrophenol	ND	0.26	ug/l							
3,3'-Dichlorobenzidine	ND	1.2	ug/l							
4,6-Dinitro-2-methylphenol	ND	1.7	ug/l							
4-Bromophenyl phenyl ether	ND	0.36	ug/l							
4-Chloro-3-methylphenol	ND	0.23	ug/l							
4-Chlorophenyl phenyl ether	ND	0.41	ug/l							
4-Nitrophenol	ND	0.45	ug/l							
Acenaphthene	ND	0.38	ug/l							
Acenaphthylene	ND	0.40	ug/l							
Anthracene	ND	0.34	ug/l							
Benzidine	ND	3.7	ug/l							
Benzo (a) anthracene	ND	0.19	ug/l							
Benzo (a) pyrene	ND	0.13	ug/l							
Benzo (b) fluoranthene	ND	0.14	ug/l							
Benzo (g,h,i) perylene	ND	0.10	ug/l							
Benzo (k) fluoranthene	ND	0.22	ug/l							
Bis(2-chloroethoxy)methane	ND	0.25	ug/l							
Bis(2-chloroethyl)ether	ND	0.27	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.38	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.3	ug/l							
Butyl benzyl phthalate	ND	0.18	ug/l							
Chrysene	ND	0.19	ug/l							
Dibenzo (a,h) anthracene	ND	0.080	ug/l							
Diethyl phthalate	ND	0.15	ug/l							

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Project Manager: Peter Shen

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
Blank (W7A1989-BLK1)				**Prepared: 01/14/17 Analyzed: 01/25/17**						
Dimethyl phthalate	ND	0.18	ug/l							
Di-n-butyl phthalate	ND	0.24	ug/l							
Di-n-octyl phthalate	ND	0.19	ug/l							
Fluoranthene	ND	0.22	ug/l							
Fluorene	ND	0.35	ug/l							
Hexachlorobenzene	ND	0.49	ug/l							
Hexachlorobutadiene	ND	0.47	ug/l							
Hexachlorocyclopentadiene	ND	1.5	ug/l							
Hexachloroethane	ND	0.52	ug/l							
Indeno (1,2,3-cd) pyrene	ND	0.12	ug/l							
Isophorone	ND	0.21	ug/l							
Naphthalene	ND	0.49	ug/l							
Nitrobenzene	ND	0.36	ug/l							
N-Nitrosodimethylamine	ND	0.14	ug/l							
N-Nitrosodi-n-propylamine	ND	0.26	ug/l							
N-Nitrosodiphenylamine	ND	0.19	ug/l							
Pentachlorophenol	ND	0.19	ug/l							
Phenanthrene	ND	0.32	ug/l							
Phenol	ND	0.16	ug/l							
Pyrene	ND	0.25	ug/l							
Surrogate(s)										
2,4,6-Tribromophenol	*7.34*		*ug/l*	*10.0*		*73*	*25-102*			
2-Fluorobiphenyl	*3.49*		*ug/l*	*5.00*		*70*	*22-107*			
2-Fluorophenol	*4.76*		*ug/l*	*10.0*		*48*	*3-74*			
Nitrobenzene-d5	*3.41*		*ug/l*	*5.00*		*68*	*27-111*			
Phenol-d5	*2.95*		*ug/l*	*10.0*		*30*	*0.1-53*			
Terphenyl-d14	*4.02*		*ug/l*	*5.00*		*80*	*28-113*			

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Project Number: Carlsbad Desal Plant - QUARTERLY

Project Manager: Peter Shen

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
Blank (W7A1989-BLK2)				**Prepared: 01/14/17 Analyzed: 01/31/17**						
1,2,4-Trichlorobenzene	ND	0.55	ug/l							QC-2
1,2-Dichlorobenzene	ND	0.57	ug/l							QC-2
1,2-Diphenylhydrazine/Azobenzene	ND	0.25	ug/l							QC-2
1,3-Dichlorobenzene	ND	0.53	ug/l							QC-2
1,4-Dichlorobenzene	ND	0.55	ug/l							QC-2
2,4,6-Trichlorophenol	ND	0.22	ug/l							QC-2
2,4-Dichlorophenol	ND	0.26	ug/l							QC-2
2,4-Dimethylphenol	ND	0.30	ug/l							QC-2
2,4-Dinitrophenol	ND	1.6	ug/l							QC-2
2,4-Dinitrotoluene	ND	0.18	ug/l							QC-2
2,6-Dinitrotoluene	ND	0.27	ug/l							QC-2
2-Chloronaphthalene	ND	0.45	ug/l							QC-2
2-Chlorophenol	ND	0.28	ug/l							QC-2
2-Nitrophenol	ND	0.26	ug/l							QC-2
3,3'-Dichlorobenzidine	ND	1.2	ug/l							QC-2
4,6-Dinitro-2-methylphenol	ND	1.7	ug/l							QC-2
4-Bromophenyl phenyl ether	ND	0.36	ug/l							QC-2
4-Chloro-3-methylphenol	ND	0.23	ug/l							QC-2
4-Chlorophenyl phenyl ether	ND	0.41	ug/l							QC-2
4-Nitrophenol	ND	0.45	ug/l							QC-2
Acenaphthene	ND	0.38	ug/l							QC-2
Acenaphthylene	ND	0.40	ug/l							QC-2
Anthracene	ND	0.34	ug/l							QC-2
Benzidine	ND	3.7	ug/l							QC-2
Benzo (a) anthracene	ND	0.19	ug/l							QC-2
Benzo (a) pyrene	ND	0.13	ug/l							QC-2
Benzo (b) fluoranthene	ND	0.14	ug/l							QC-2
Benzo (g,h,i) perylene	ND	0.10	ug/l							QC-2
Benzo (k) fluoranthene	ND	0.22	ug/l							QC-2
Bis(2-chloroethoxy)methane	ND	0.25	ug/l							QC-2
Bis(2-chloroethyl)ether	ND	0.27	ug/l							QC-2
Bis(2-chloroisopropyl)ether	ND	0.38	ug/l							QC-2
Bis(2-ethylhexyl)phthalate	ND	2.3	ug/l							QC-2
Butyl benzyl phthalate	ND	0.18	ug/l							QC-2
Chrysene	ND	0.19	ug/l							QC-2
Dibenzo (a,h) anthracene	ND	0.080	ug/l							QC-2
Diethyl phthalate	ND	0.15	ug/l							QC-2

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
Blank (W7A1989-BLK2)				**Prepared: 01/14/17 Analyzed: 01/31/17**						
Dimethyl phthalate	ND	0.18	ug/l							QC-2
Di-n-butyl phthalate	ND	0.24	ug/l							QC-2
Di-n-octyl phthalate	ND	0.19	ug/l							QC-2
Fluoranthene	ND	0.22	ug/l							QC-2
Fluorene	ND	0.35	ug/l							QC-2
Hexachlorobenzene	ND	0.49	ug/l							QC-2
Hexachlorobutadiene	ND	0.47	ug/l							QC-2
Hexachlorocyclopentadiene	ND	1.5	ug/l							QC-2
Hexachloroethane	ND	0.52	ug/l							QC-2
Indeno (1,2,3-cd) pyrene	ND	0.12	ug/l							QC-2
Isophorone	ND	0.21	ug/l							QC-2
Naphthalene	ND	0.49	ug/l							QC-2
Nitrobenzene	ND	0.36	ug/l							QC-2
N-Nitrosodimethylamine	ND	0.14	ug/l							QC-2
N-Nitrosodi-n-propylamine	ND	0.26	ug/l							QC-2
N-Nitrosodiphenylamine	ND	0.19	ug/l							QC-2
Pentachlorophenol	ND	0.19	ug/l							QC-2
Phenanthrene	ND	0.32	ug/l							QC-2
Phenol	ND	0.16	ug/l							QC-2
Pyrene	ND	0.25	ug/l							QC-2
Surrogate(s)										
2,4,6-Tribromophenol	*6.16*		*ug/l*	*10.0*		*62*	*25-102*			*QC-2*
2-Fluorobiphenyl	*3.43*		*ug/l*	*5.00*		*69*	*22-107*			*QC-2*
2-Fluorophenol	*4.50*		*ug/l*	*10.0*		*45*	*3-74*			*QC-2*
Nitrobenzene-d5	*3.41*		*ug/l*	*5.00*		*68*	*27-111*			*QC-2*
Phenol-d5	*2.83*		*ug/l*	*10.0*		*28*	*0.1-53*			*QC-2*
Terphenyl-d14	*3.83*		*ug/l*	*5.00*		*77*	*28-113*			*QC-2*

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Project Number: Carlsbad Desal Plant - QUARTERLY

Project Manager: Peter Shen

Reported:
03/13/2017 10:14

Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
LCS (W7A1989-BS2)				**Prepared: 01/14/17 Analyzed: 01/25/17**						
1,2,4-Trichlorobenzene	22.7	0.55	ug/l	25.0		91	44-142			
1,2-Dichlorobenzene	21.2	0.57	ug/l	25.0		85	32-129			
1,3-Dichlorobenzene	20.9	0.53	ug/l	25.0		84	0.1-172			
1,4-Dichlorobenzene	21.5	0.55	ug/l	25.0		86	20-124			
2,4,6-Trichlorophenol	26.8	0.22	ug/l	25.0		107	37-144			
2,4-Dichlorophenol	25.1	0.26	ug/l	25.0		100	39-135			
2,4-Dimethylphenol	16.5	0.30	ug/l	25.0		66	32-119			
2,4-Dinitrophenol	17.9	1.6	ug/l	25.0		72	0.1-191			
2,4-Dinitrotoluene	25.3	0.18	ug/l	25.0		101	39-139			
2,6-Dinitrotoluene	27.6	0.27	ug/l	25.0		110	50-158			
2-Chloronaphthalene	25.0	0.45	ug/l	25.0		100	60-118			
2-Chlorophenol	20.4	0.28	ug/l	25.0		82	23-134			
2-Nitrophenol	23.6	0.26	ug/l	25.0		94	29-182			
3,3'-Dichlorobenzidine	19.8	1.2	ug/l	25.0		79	0.1-262			
4,6-Dinitro-2-methylphenol	23.8	1.7	ug/l	25.0		95	0.1-181			
4-Bromophenyl phenyl ether	21.8	0.36	ug/l	25.0		87	53-127			
4-Chloro-3-methylphenol	26.0	0.23	ug/l	25.0		104	22-147			
4-Chlorophenyl phenyl ether	23.8	0.41	ug/l	25.0		95	25-158			
4-Nitrophenol	11.8	0.45	ug/l	25.0		47	0.1-132			
Acenaphthene	22.8	0.38	ug/l	25.0		91	47-145			
Acenaphthylene	26.4	0.40	ug/l	25.0		105	33-145			
Anthracene	23.0	0.34	ug/l	25.0		92	27-133			
Benzo (a) anthracene	24.0	0.19	ug/l	25.0		96	33-143			
Benzo (a) pyrene	25.0	0.13	ug/l	25.0		100	17-163			
Benzo (b) fluoranthene	26.6	0.14	ug/l	25.0		106	24-159			
Benzo (g,h,i) perylene	18.5	0.10	ug/l	25.0		74	0.1-219			
Benzo (k) fluoranthene	24.4	0.22	ug/l	25.0		98	11-162			
Bis(2-chloroethoxy)methane	23.8	0.25	ug/l	25.0		95	33-184			
Bis(2-chloroethyl)ether	20.4	0.27	ug/l	25.0		81	12-158			
Bis(2-chloroisopropyl)ether	22.1	0.38	ug/l	25.0		88	36-166			
Bis(2-ethylhexyl)phthalate	24.5	2.3	ug/l	25.0		98	8-158			
Butyl benzyl phthalate	25.0	0.18	ug/l	25.0		100	0.1-152			
Chrysene	24.8	0.19	ug/l	25.0		99	17-168			
Dibenzo (a,h) anthracene	21.1	0.080	ug/l	25.0		84	0.1-227			
Diethyl phthalate	23.7	0.15	ug/l	25.0		95	0.1-114			
Dimethyl phthalate	24.9	0.18	ug/l	25.0		99	0.1-112			
Di-n-butyl phthalate	23.6	0.24	ug/l	25.0		95	1-118			

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Project Number: Carlsbad Desal Plant - QUARTERLY

Project Manager: Peter Shen

Reported: 03/13/2017 10:14

Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
LCS (W7A1989-BS2)				**Prepared: 01/14/17 Analyzed: 01/25/17**						
Di-n-octyl phthalate	24.1	0.19	ug/l	25.0		96	4-146			
Fluoranthene	24.2	0.22	ug/l	25.0		97	26-137			
Fluorene	23.3	0.35	ug/l	25.0		93	59-121			
Hexachlorobenzene	19.8	0.49	ug/l	25.0		79	0.1-152			
Hexachlorobutadiene	20.2	0.47	ug/l	25.0		81	24-116			
Hexachlorocyclopentadiene	10.4	1.5	ug/l	25.0		41	0.1-81			
Hexachloroethane	20.8	0.52	ug/l	25.0		83	40-113			
Indeno (1,2,3-cd) pyrene	19.5	0.12	ug/l	25.0		78	0.1-171			
Isophorone	24.9	0.21	ug/l	25.0		100	21-196			
Naphthalene	21.9	0.49	ug/l	25.0		88	21-133			
Nitrobenzene	23.6	0.36	ug/l	25.0		94	35-180			
N-Nitrosodimethylamine	14.0	0.14	ug/l	25.0		56	28-75			
N-Nitrosodi-n-propylamine	26.3	0.26	ug/l	25.0		105	0.1-230			
N-Nitrosodiphenylamine	21.7	0.19	ug/l	25.0		87	42-90			
Pentachlorophenol	22.5	0.19	ug/l	25.0		90	14-176			
Phenanthrene	22.7	0.32	ug/l	25.0		91	54-120			
Phenol	8.06	0.16	ug/l	25.0		32	5-112			
Pyrene	23.9	0.25	ug/l	25.0		95	52-115			
Surrogate(s)										
2,4,6-Tribromophenol	*48.8*		*ug/l*	*50.0*		*98*	*25-102*			
2-Fluorobiphenyl	*22.9*		*ug/l*	*25.0*		*92*	*22-107*			
2-Fluorophenol	*24.5*		*ug/l*	*50.0*		*49*	*3-74*			
Nitrobenzene-d5	*21.6*		*ug/l*	*25.0*		*86*	*27-111*			
Phenol-d5	*16.7*		*ug/l*	*50.0*		*33*	*0.1-53*			
Terphenyl-d14	*20.4*		*ug/l*	*25.0*		*82*	*28-113*			
LCS (W7A1989-BS3)				**Prepared: 01/14/17 Analyzed: 01/31/17**						
1,2,4-Trichlorobenzene	21.7	0.55	ug/l	25.0		87	44-142			QC-2
1,2-Dichlorobenzene	20.7	0.57	ug/l	25.0		83	32-129			QC-2
1,3-Dichlorobenzene	20.1	0.53	ug/l	25.0		80	0.1-172			QC-2
1,4-Dichlorobenzene	21.0	0.55	ug/l	25.0		84	20-124			QC-2
2,4,6-Trichlorophenol	23.9	0.22	ug/l	25.0		96	37-144			QC-2
2,4-Dichlorophenol	23.0	0.26	ug/l	25.0		92	39-135			QC-2
2,4-Dimethylphenol	12.5	0.30	ug/l	25.0		50	32-119			QC-2
2,4-Dinitrophenol	21.6	1.6	ug/l	25.0		87	0.1-191			QC-2
2,4-Dinitrotoluene	23.3	0.18	ug/l	25.0		93	39-139			QC-2
2,6-Dinitrotoluene	23.8	0.27	ug/l	25.0		95	50-158			QC-2
2-Chloronaphthalene	23.8	0.45	ug/l	25.0		95	60-118			QC-2

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Project Manager: Peter Shen

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
LCS (W7A1989-BS3)				**Prepared: 01/14/17 Analyzed: 01/31/17**						
2-Chlorophenol	19.6	0.28	ug/l	25.0		78	23-134			QC-2
2-Nitrophenol	22.8	0.26	ug/l	25.0		91	29-182			QC-2
3,3'-Dichlorobenzidine	23.5	1.2	ug/l	25.0		94	0.1-262			QC-2
4,6-Dinitro-2-methylphenol	24.1	1.7	ug/l	25.0		97	0.1-181			QC-2
4-Bromophenyl phenyl ether	20.1	0.36	ug/l	25.0		81	53-127			QC-2
4-Chloro-3-methylphenol	23.3	0.23	ug/l	25.0		93	22-147			QC-2
4-Chlorophenyl phenyl ether	22.8	0.41	ug/l	25.0		91	25-158			QC-2
4-Nitrophenol	9.11	0.45	ug/l	25.0		36	0.1-132			QC-2
Acenaphthene	22.4	0.38	ug/l	25.0		89	47-145			QC-2
Acenaphthylene	24.4	0.40	ug/l	25.0		98	33-145			QC-2
Anthracene	22.3	0.34	ug/l	25.0		89	27-133			QC-2
Benzo (a) anthracene	20.4	0.19	ug/l	25.0		82	33-143			QC-2
Benzo (a) pyrene	22.4	0.13	ug/l	25.0		89	17-163			QC-2
Benzo (b) fluoranthene	21.3	0.14	ug/l	25.0		85	24-159			QC-2
Benzo (g,h,i) perylene	21.8	0.10	ug/l	25.0		87	0.1-219			QC-2
Benzo (k) fluoranthene	23.7	0.22	ug/l	25.0		95	11-162			QC-2
Bis(2-chloroethoxy)methane	22.3	0.25	ug/l	25.0		89	33-184			QC-2
Bis(2-chloroethyl)ether	20.4	0.27	ug/l	25.0		81	12-158			QC-2
Bis(2-chloroisopropyl)ether	21.4	0.38	ug/l	25.0		86	36-166			QC-2
Bis(2-ethylhexyl)phthalate	21.2	2.3	ug/l	25.0		85	8-158			QC-2
Butyl benzyl phthalate	23.5	0.18	ug/l	25.0		94	0.1-152			QC-2
Chrysene	24.6	0.19	ug/l	25.0		98	17-168			QC-2
Dibenzo (a,h) anthracene	24.0	0.080	ug/l	25.0		96	0.1-227			QC-2
Diethyl phthalate	22.1	0.15	ug/l	25.0		88	0.1-114			QC-2
Dimethyl phthalate	22.6	0.18	ug/l	25.0		90	0.1-112			QC-2
Di-n-butyl phthalate	24.0	0.24	ug/l	25.0		96	1-118			QC-2
Di-n-octyl phthalate	23.2	0.19	ug/l	25.0		93	4-146			QC-2
Fluoranthene	23.6	0.22	ug/l	25.0		94	26-137			QC-2
Fluorene	22.0	0.35	ug/l	25.0		88	59-121			QC-2
Hexachlorobenzene	18.1	0.49	ug/l	25.0		72	0.1-152			QC-2
Hexachlorobutadiene	19.8	0.47	ug/l	25.0		79	24-116			QC-2
Hexachlorocyclopentadiene	8.80	1.5	ug/l	25.0		35	0.1-81			QC-2
Hexachloroethane	20.3	0.52	ug/l	25.0		81	40-113			QC-2
Indeno (1,2,3-cd) pyrene	23.1	0.12	ug/l	25.0		92	0.1-171			QC-2
Isophorone	24.3	0.21	ug/l	25.0		97	21-196			QC-2
Naphthalene	21.6	0.49	ug/l	25.0		86	21-133			QC-2
Nitrobenzene	22.4	0.36	ug/l	25.0		89	35-180			QC-2

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Project Number: Carlsbad Desal Plant - QUARTERLY

Project Manager: Peter Shen

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
LCS (W7A1989-BS3)				**Prepared: 01/14/17 Analyzed: 01/31/17**						
N-Nitrosodimethylamine	12.0	0.14	ug/l	25.0		48	28-75			QC-2
N-Nitrosodi-n-propylamine	14.9	0.26	ug/l	25.0		59	0.1-230			QC-2
N-Nitrosodiphenylamine	19.6	0.19	ug/l	25.0		79	42-90			QC-2
Pentachlorophenol	19.6	0.19	ug/l	25.0		78	14-176			QC-2
Phenanthrene	23.4	0.32	ug/l	25.0		93	54-120			QC-2
Phenol	7.71	0.16	ug/l	25.0		31	5-112			QC-2
Pyrene	23.6	0.25	ug/l	25.0		94	52-115			QC-2
Surrogate(s)										
2,4,6-Tribromophenol	*43.3*		*ug/l*	*50.0*		*87*	*25-102*			QC-2
2-Fluorobiphenyl	*22.2*		*ug/l*	*25.0*		*89*	*22-107*			QC-2
2-Fluorophenol	*23.6*		*ug/l*	*50.0*		*47*	*3-74*			QC-2
Nitrobenzene-d5	*20.4*		*ug/l*	*25.0*		*82*	*27-111*			QC-2
Phenol-d5	*16.3*		*ug/l*	*50.0*		*33*	*0.1-53*			QC-2
Terphenyl-d14	*19.8*		*ug/l*	*25.0*		*79*	*28-113*			QC-2
LCS Dup (W7A1989-BSD2)				**Prepared: 01/14/17 Analyzed: 01/25/17**						
1,2,4-Trichlorobenzene	19.7	0.55	ug/l	25.0		79	44-142	14	30	
1,2-Dichlorobenzene	19.4	0.57	ug/l	25.0		78	32-129	9	30	
1,3-Dichlorobenzene	19.3	0.53	ug/l	25.0		77	0.1-172	8	30	
1,4-Dichlorobenzene	19.8	0.55	ug/l	25.0		79	20-124	8	30	
2,4,6-Trichlorophenol	23.9	0.22	ug/l	25.0		96	37-144	11	30	
2,4-Dichlorophenol	21.9	0.26	ug/l	25.0		88	39-135	14	30	
2,4-Dimethylphenol	15.8	0.30	ug/l	25.0		63	32-119	5	30	
2,4-Dinitrophenol	18.6	1.6	ug/l	25.0		74	0.1-191	4	30	
2,4-Dinitrotoluene	22.8	0.18	ug/l	25.0		91	39-139	10	30	
2,6-Dinitrotoluene	24.3	0.27	ug/l	25.0		97	50-158	12	30	
2-Chloronaphthalene	22.2	0.45	ug/l	25.0		89	60-118	12	30	
2-Chlorophenol	18.4	0.28	ug/l	25.0		74	23-134	10	30	
2-Nitrophenol	21.3	0.26	ug/l	25.0		85	29-182	10	30	
3,3'-Dichlorobenzidine	18.6	1.2	ug/l	25.0		75	0.1-262	6	30	
4,6-Dinitro-2-methylphenol	22.3	1.7	ug/l	25.0		89	0.1-181	6	30	
4-Bromophenyl phenyl ether	19.4	0.36	ug/l	25.0		77	53-127	12	30	
4-Chloro-3-methylphenol	23.7	0.23	ug/l	25.0		95	22-147	10	30	
4-Chlorophenyl phenyl ether	21.1	0.41	ug/l	25.0		84	25-158	12	30	
4-Nitrophenol	12.1	0.45	ug/l	25.0		48	0.1-132	3	30	
Acenaphthene	19.8	0.38	ug/l	25.0		79	47-145	14	30	
Acenaphthylene	23.4	0.40	ug/l	25.0		94	33-145	12	30	
Anthracene	20.4	0.34	ug/l	25.0		82	27-133	12	30	

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Project Manager: Peter Shen

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
LCS Dup (W7A1989-BSD2)				**Prepared: 01/14/17**	**Analyzed: 01/25/17**					
Benzo (a) anthracene	22.4	0.19	ug/l	25.0		90	33-143	7	30	
Benzo (a) pyrene	22.2	0.13	ug/l	25.0		89	17-163	12	30	
Benzo (b) fluoranthene	22.7	0.14	ug/l	25.0		91	24-159	16	30	
Benzo (g,h,i) perylene	15.6	0.10	ug/l	25.0		63	0.1-219	17	30	
Benzo (k) fluoranthene	22.2	0.22	ug/l	25.0		89	11-162	10	30	
Bis(2-chloroethoxy)methane	20.5	0.25	ug/l	25.0		82	33-184	15	30	
Bis(2-chloroethyl)ether	18.8	0.27	ug/l	25.0		75	12-158	8	30	
Bis(2-chloroisopropyl)ether	19.5	0.38	ug/l	25.0		78	36-166	12	30	
Bis(2-ethylhexyl)phthalate	25.5	2.3	ug/l	25.0		102	8-158	4	30	
Butyl benzyl phthalate	23.3	0.18	ug/l	25.0		93	0.1-152	7	30	
Chrysene	22.1	0.19	ug/l	25.0		88	17-168	12	30	
Dibenzo (a,h) anthracene	18.4	0.080	ug/l	25.0		73	0.1-227	14	30	
Diethyl phthalate	21.2	0.15	ug/l	25.0		85	0.1-114	11	30	
Dimethyl phthalate	22.0	0.18	ug/l	25.0		88	0.1-112	12	30	
Di-n-butyl phthalate	21.4	0.24	ug/l	25.0		86	1-118	10	30	
Di-n-octyl phthalate	21.4	0.19	ug/l	25.0		85	4-146	12	30	
Fluoranthene	22.2	0.22	ug/l	25.0		89	26-137	9	30	
Fluorene	20.6	0.35	ug/l	25.0		82	59-121	12	30	
Hexachlorobenzene	17.6	0.49	ug/l	25.0		70	0.1-152	12	30	
Hexachlorobutadiene	18.2	0.47	ug/l	25.0		73	24-116	10	30	
Hexachlorocyclopentadiene	9.40	1.5	ug/l	25.0		38	0.1-81	10	30	
Hexachloroethane	19.2	0.52	ug/l	25.0		77	40-113	8	30	
Indeno (1,2,3-cd) pyrene	18.0	0.12	ug/l	25.0		72	0.1-171	8	30	
Isophorone	21.7	0.21	ug/l	25.0		87	21-196	14	30	
Naphthalene	19.9	0.49	ug/l	25.0		80	21-133	10	30	
Nitrobenzene	20.8	0.36	ug/l	25.0		83	35-180	12	30	
N-Nitrosodimethylamine	14.0	0.14	ug/l	25.0		56	28-75	0.2	30	
N-Nitrosodi-n-propylamine	19.7	0.26	ug/l	25.0		79	0.1-230	28	30	
N-Nitrosodiphenylamine	19.3	0.19	ug/l	25.0		77	42-90	12	30	
Pentachlorophenol	21.6	0.19	ug/l	25.0		86	14-176	4	30	
Phenanthrene	19.9	0.32	ug/l	25.0		80	54-120	13	30	
Phenol	7.84	0.16	ug/l	25.0		31	5-112	3	30	
Pyrene	22.2	0.25	ug/l	25.0		89	52-115	7	30	
Surrogate(s)										
2,4,6-Tribromophenol	*44.0*		*ug/l*	*50.0*		*88*	*25-102*			
2-Fluorobiphenyl	*20.0*		*ug/l*	*25.0*		*80*	*22-107*			
2-Fluorophenol	*23.8*		*ug/l*	*50.0*		*48*	*3-74*			

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Project Manager: Peter Shen

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
LCS Dup (W7A1989-BSD2)				**Prepared: 01/14/17 Analyzed: 01/25/17**						
Surrogate(s)										
Nitrobenzene-d5	*18.7*		*ug/l*	*25.0*		*75*	*27-111*			
Phenol-d5	*16.1*		*ug/l*	*50.0*		*32*	*0.1-53*			
Terphenyl-d14	*18.9*		*ug/l*	*25.0*		*76*	*28-113*			
LCS Dup (W7A1989-BSD3)				**Prepared: 01/14/17 Analyzed: 01/31/17**						
1,2,4-Trichlorobenzene	18.8	0.55	ug/l	25.0		75	44-142	14	30	QC-2
1,2-Dichlorobenzene	19.5	0.57	ug/l	25.0		78	32-129	6	30	QC-2
1,3-Dichlorobenzene	19.2	0.53	ug/l	25.0		77	0.1-172	4	30	QC-2
1,4-Dichlorobenzene	19.8	0.55	ug/l	25.0		79	20-124	6	30	QC-2
2,4,6-Trichlorophenol	20.6	0.22	ug/l	25.0		82	37-144	15	30	QC-2
2,4-Dichlorophenol	19.5	0.26	ug/l	25.0		78	39-135	16	30	QC-2
2,4-Dimethylphenol	12.5	0.30	ug/l	25.0		50	32-119	0	30	QC-2
2,4-Dinitrophenol	19.1	1.6	ug/l	25.0		76	0.1-191	12	30	QC-2
2,4-Dinitrotoluene	20.0	0.18	ug/l	25.0		80	39-139	15	30	QC-2
2,6-Dinitrotoluene	19.5	0.27	ug/l	25.0		78	50-158	20	30	QC-2
2-Chloronaphthalene	20.6	0.45	ug/l	25.0		82	60-118	14	30	QC-2
2-Chlorophenol	17.9	0.28	ug/l	25.0		72	23-134	9	30	QC-2
2-Nitrophenol	19.3	0.26	ug/l	25.0		77	29-182	17	30	QC-2
3,3'-Dichlorobenzidine	20.2	1.2	ug/l	25.0		81	0.1-262	15	30	QC-2
4,6-Dinitro-2-methylphenol	20.0	1.7	ug/l	25.0		80	0.1-181	19	30	QC-2
4-Bromophenyl phenyl ether	17.4	0.36	ug/l	25.0		69	53-127	15	30	QC-2
4-Chloro-3-methylphenol	20.4	0.23	ug/l	25.0		81	22-147	14	30	QC-2
4-Chlorophenyl phenyl ether	19.9	0.41	ug/l	25.0		80	25-158	14	30	QC-2
4-Nitrophenol	8.13	0.45	ug/l	25.0		33	0.1-132	11	30	QC-2
Acenaphthene	19.7	0.38	ug/l	25.0		79	47-145	12	30	QC-2
Acenaphthylene	20.7	0.40	ug/l	25.0		83	33-145	16	30	QC-2
Anthracene	19.7	0.34	ug/l	25.0		79	27-133	13	30	QC-2
Benzo (a) anthracene	17.6	0.19	ug/l	25.0		71	33-143	14	30	QC-2
Benzo (a) pyrene	18.3	0.13	ug/l	25.0		73	17-163	20	30	QC-2
Benzo (b) fluoranthene	18.4	0.14	ug/l	25.0		73	24-159	15	30	QC-2
Benzo (g,h,i) perylene	19.0	0.10	ug/l	25.0		76	0.1-219	14	30	QC-2
Benzo (k) fluoranthene	19.1	0.22	ug/l	25.0		76	11-162	22	30	QC-2
Bis(2-chloroethoxy)methane	19.0	0.25	ug/l	25.0		76	33-184	16	30	QC-2
Bis(2-chloroethyl)ether	18.4	0.27	ug/l	25.0		73	12-158	10	30	QC-2
Bis(2-chloroisopropyl)ether	19.0	0.38	ug/l	25.0		76	36-166	12	30	QC-2
Bis(2-ethylhexyl)phthalate	20.1	2.3	ug/l	25.0		81	8-158	5	30	QC-2
Butyl benzyl phthalate	21.2	0.18	ug/l	25.0		85	0.1-152	10	30	QC-2

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1989 - EPA 625 (Continued)										
LCS Dup (W7A1989-BSD3)				**Prepared: 01/14/17 Analyzed: 01/31/17**						
Chrysene	21.9	0.19	ug/l	25.0		88	17-168	12	30	QC-2
Dibenzo (a,h) anthracene	21.0	0.080	ug/l	25.0		84	0.1-227	13	30	QC-2
Diethyl phthalate	19.2	0.15	ug/l	25.0		77	0.1-114	14	30	QC-2
Dimethyl phthalate	18.8	0.18	ug/l	25.0		75	0.1-112	18	30	QC-2
Di-n-butyl phthalate	21.4	0.24	ug/l	25.0		86	1-118	11	30	QC-2
Di-n-octyl phthalate	20.4	0.19	ug/l	25.0		81	4-146	13	30	QC-2
Fluoranthene	20.7	0.22	ug/l	25.0		83	26-137	13	30	QC-2
Fluorene	19.3	0.35	ug/l	25.0		77	59-121	13	30	QC-2
Hexachlorobenzene	15.9	0.49	ug/l	25.0		64	0.1-152	13	30	QC-2
Hexachlorobutadiene	18.5	0.47	ug/l	25.0		74	24-116	7	30	QC-2
Hexachlorocyclopentadiene	8.17	1.5	ug/l	25.0		33	0.1-81	7	30	QC-2
Hexachloroethane	19.1	0.52	ug/l	25.0		76	40-113	6	30	QC-2
Indeno (1,2,3-cd) pyrene	19.1	0.12	ug/l	25.0		77	0.1-171	19	30	QC-2
Isophorone	20.6	0.21	ug/l	25.0		82	21-196	17	30	QC-2
Naphthalene	19.4	0.49	ug/l	25.0		78	21-133	11	30	QC-2
Nitrobenzene	18.6	0.36	ug/l	25.0		75	35-180	18	30	QC-2
N-Nitrosodimethylamine	14.0	0.14	ug/l	25.0		56	28-75	15	30	QC-2
N-Nitrosodi-n-propylamine	20.2	0.26	ug/l	25.0		81	0.1-230	30	30	QC-2
N-Nitrosodiphenylamine	17.3	0.19	ug/l	25.0		69	42-90	13	30	QC-2
Pentachlorophenol	16.3	0.19	ug/l	25.0		65	14-176	18	30	QC-2
Phenanthrene	20.1	0.32	ug/l	25.0		81	54-120	15	30	QC-2
Phenol	7.35	0.16	ug/l	25.0		29	5-112	5	30	QC-2
Pyrene	21.2	0.25	ug/l	25.0		85	52-115	11	30	QC-2
Surrogate(s)										
2,4,6-Tribromophenol	*37.1*		*ug/l*	*50.0*		*74*	*25-102*			*QC-2*
2-Fluorobiphenyl	*19.0*		*ug/l*	*25.0*		*76*	*22-107*			*QC-2*
2-Fluorophenol	*24.0*		*ug/l*	*50.0*		*48*	*3-74*			*QC-2*
Nitrobenzene-d5	*17.8*		*ug/l*	*25.0*		*71*	*27-111*			*QC-2*
Phenol-d5	*15.4*		*ug/l*	*50.0*		*31*	*0.1-53*			*QC-2*
Terphenyl-d14	*17.7*		*ug/l*	*25.0*		*71*	*28-113*			*QC-2*

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Project Manager: Peter Shen

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Quality Control Results (Continued)

Chlorinated Pesticides and/or PCBs

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1850 - EPA 608										
Blank (W7A1850-BLK1)				**Prepared: 01/12/17 Analyzed: 01/20/17**						
2,4'-DDD	ND	5.0	ng/l							
2,4'-DDE	ND	5.0	ng/l							
2,4'-DDT	ND	5.0	ng/l							
4,4´-DDD	ND	3.0	ng/l							
4,4´-DDE	ND	2.5	ng/l							
4,4´-DDT	ND	3.1	ng/l							
Aldrin	ND	1.5	ng/l							
alpha-BHC	ND	1.8	ng/l							
alpha-Chlordane	ND	5.0	ng/l							
Aroclor 1016	ND	50	ng/l							
Aroclor 1221	ND	60	ng/l							
Aroclor 1232	ND	100	ng/l							
Aroclor 1242	ND	70	ng/l							
Aroclor 1248	ND	60	ng/l							
Aroclor 1254	ND	40	ng/l							
Aroclor 1260	ND	40	ng/l							
beta-BHC	ND	3.1	ng/l							
Chlordane (tech)	ND	50	ng/l							
cis-Nonachlor	ND	5.0	ng/l							
delta-BHC	ND	2.5	ng/l							
Dieldrin	ND	2.1	ng/l							
Endosulfan I	ND	1.7	ng/l							
Endosulfan II	ND	1.9	ng/l							
Endosulfan sulfate	ND	5.0	ng/l							
Endrin	ND	2.8	ng/l							
Endrin aldehyde	ND	3.0	ng/l							
gamma-BHC (Lindane)	ND	2.1	ng/l							
gamma-Chlordane	ND	5.0	ng/l							
Heptachlor	ND	1.7	ng/l							
Heptachlor epoxide	ND	1.9	ng/l							
Methoxychlor	ND	5.0	ng/l							
Mirex	ND	5.0	ng/l							
Toxaphene	ND	120	ng/l							
trans-Nonachlor	ND	5.0	ng/l							
Surrogate(s)										
Decachlorobiphenyl	*73.4*		*ng/l*	*100*		*73*	*0.1-118*			
Tetrachloro-meta-xylene	*79.8*		*ng/l*	*100*		*80*	*12-117*			

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Project Manager: Peter Shen

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Quality Control Results (Continued)

Chlorinated Pesticides and/or PCBs (Continued)

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1850 - EPA 608 (Continued)										
LCS (W7A1850-BS1)				**Prepared: 01/12/17 Analyzed: 01/20/17**						
4,4´-DDD	68.8	3.0	ng/l	100		69	42-133			
4,4´-DDE	70.9	2.5	ng/l	100		71	33-126			
4,4´-DDT	83.7	3.1	ng/l	100		84	35-147			
Aldrin	51.1	1.5	ng/l	100		51	18-117			
alpha-BHC	72.1	1.8	ng/l	100		72	47-119			
beta-BHC	61.9	3.1	ng/l	100		62	53-123			
delta-BHC	60.8	2.5	ng/l	100		61	51-123			
Dieldrin	68.9	2.1	ng/l	100		69	48-123			
Endosulfan I	63.2	1.7	ng/l	100		63	14-131			
Endosulfan II	73.4	1.9	ng/l	100		73	40-121			
Endosulfan sulfate	83.6	5.0	ng/l	100		84	44-140			
Endrin	72.6	2.8	ng/l	100		73	40-143			
Endrin aldehyde	49.7	3.0	ng/l	100		50	18-136			
gamma-BHC (Lindane)	73.1	2.1	ng/l	100		73	49-117			
Heptachlor	77.9	1.7	ng/l	100		78	31-130			
Heptachlor epoxide	68.5	1.9	ng/l	100		68	49-122			
Surrogate(s)										
Decachlorobiphenyl	*65.9*		*ng/l*	*100*		*66*	*0.1-118*			
Tetrachloro-meta-xylene	*66.0*		*ng/l*	*100*		*66*	*12-117*			
Matrix Spike (W7A1850-MS1)	**Source: 7A10118-01**			**Prepared: 01/12/17 Analyzed: 01/20/17**						
4,4´-DDD	63.9	3.0	ng/l	100	ND	64	23-124			
4,4´-DDE	48.8	2.5	ng/l	100	ND	49	30-114			
4,4´-DDT	57.7	3.1	ng/l	100	ND	58	11-151			
Aldrin	52.2	1.5	ng/l	100	ND	52	18-110			
alpha-BHC	57.9	1.8	ng/l	100	ND	58	43-114			
beta-BHC	53.4	3.1	ng/l	100	ND	53	24-135			
delta-BHC	51.8	2.5	ng/l	100	ND	52	37-122			
Dieldrin	78.7	2.1	ng/l	100	ND	79	27-132			
Endosulfan I	47.6	1.7	ng/l	100	ND	48	0.1-140			
Endosulfan II	54.0	1.9	ng/l	100	ND	54	17-122			
Endosulfan sulfate	63.3	5.0	ng/l	100	ND	63	37-131			
Endrin	62.6	2.8	ng/l	100	ND	63	42-144			
Endrin aldehyde	41.0	3.0	ng/l	100	ND	41	11-113			
gamma-BHC (Lindane)	50.5	2.1	ng/l	100	ND	50	33-112			
Heptachlor	62.7	1.7	ng/l	100	ND	63	28-131			
Heptachlor epoxide	57.1	1.9	ng/l	100	ND	57	36-117			
Surrogate(s)										

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Quality Control Results (Continued)

Chlorinated Pesticides and/or PCBs (Continued)

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1850 - EPA 608 (Continued)										
Matrix Spike (W7A1850-MS1)	**Source: 7A10118-01**			**Prepared: 01/12/17**	**Analyzed: 01/20/17**					
Surrogate(s)										
Decachlorobiphenyl	*52.2*		*ng/l*	*100*		*52*	*0.1-118*			
Tetrachloro-meta-xylene	*43.3*		*ng/l*	*100*		*43*	*12-117*			
Matrix Spike Dup (W7A1850-MSD1)	**Source: 7A10118-01**			**Prepared: 01/12/17**	**Analyzed: 01/20/17**					
4,4´-DDD	68.8	3.0	ng/l	100	ND	69	23-124	7	30	
4,4´-DDE	46.3	2.5	ng/l	100	ND	46	30-114	5	30	
4,4´-DDT	60.4	3.1	ng/l	100	ND	60	11-151	4	30	
Aldrin	85.4	1.5	ng/l	100	ND	85	18-110	48	30	MS-05
alpha-BHC	57.2	1.8	ng/l	100	ND	57	43-114	1	30	
beta-BHC	58.4	3.1	ng/l	100	ND	58	24-135	9	30	
delta-BHC	52.5	2.5	ng/l	100	ND	52	37-122	1	30	
Dieldrin	74.3	2.1	ng/l	100	ND	74	27-132	6	30	
Endosulfan I	48.2	1.7	ng/l	100	ND	48	0.1-140	1	30	
Endosulfan II	50.4	1.9	ng/l	100	ND	50	17-122	7	30	
Endosulfan sulfate	57.7	5.0	ng/l	100	ND	58	37-131	9	30	
Endrin	61.1	2.8	ng/l	100	ND	61	42-144	2	30	
Endrin aldehyde	42.7	3.0	ng/l	100	ND	43	11-113	4	30	
gamma-BHC (Lindane)	51.5	2.1	ng/l	100	ND	51	33-112	2	30	
Heptachlor	73.1	1.7	ng/l	100	ND	73	28-131	15	30	
Heptachlor epoxide	53.8	1.9	ng/l	100	ND	54	36-117	6	30	
Surrogate(s)										
Decachlorobiphenyl	*47.8*		*ng/l*	*100*		*48*	*0.1-118*			
Tetrachloro-meta-xylene	*41.6*		*ng/l*	*100*		*42*	*12-117*			

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1879 - SM 4500H+-B										
LCS (W7A1879-BS1)				**Prepared & Analyzed: 01/12/17**						
pH	7.47	0.10	Units	7.41		101	98.8-101			
Duplicate (W7A1879-DUP1)	**Source: 7A12041-02**			**Prepared: 01/12/17 Analyzed: 01/13/17**						
pH	6.84	0.10	Units		6.93			1	3.1	
Batch: W7A2028 - EPA 335.4										
Blank (W7A2028-BLK1)				**Prepared: 01/16/17 Analyzed: 01/19/17**						
Cyanide, Total	ND	2.7	ug/l							
LCS (W7A2028-BS1)				**Prepared: 01/16/17 Analyzed: 01/19/17**						
Cyanide, Total	61.7	2.7	ug/l	59.2		104	90-110			
Matrix Spike (W7A2028-MS1)	**Source: 7A12003-01**			**Prepared: 01/16/17 Analyzed: 01/19/17**						
Cyanide, Total	130	2.7	ug/l	118	ND	110	90-110			
Matrix Spike Dup (W7A2028-MSD1)	**Source: 7A12003-01**			**Prepared: 01/16/17 Analyzed: 01/19/17**						
Cyanide, Total	126	2.7	ug/l	118	ND	106	90-110	3	20	
Batch: W7A2262 - EPA 350.1										
Blank (W7A2262-BLK1)				**Prepared: 01/18/17 Analyzed: 01/24/17**						
Ammonia as N	ND	0.048	mg/l							
Blank (W7A2262-BLK2)				**Prepared: 01/18/17 Analyzed: 01/24/17**						
Ammonia as N	ND	0.048	mg/l							

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Quality Control Results (Continued)

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

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2262 - EPA 350.1 (Continued)										
LCS (W7A2262-BS1)				**Prepared: 01/18/17**	**Analyzed: 01/24/17**					
Ammonia as N	0.244	0.048	mg/l	0.250		98	90-110			
LCS (W7A2262-BS2)				**Prepared: 01/18/17**	**Analyzed: 01/24/17**					
Ammonia as N	0.247	0.048	mg/l	0.250		99	90-110			
Matrix Spike (W7A2262-MS1)		**Source: 7A12067-01**		**Prepared: 01/18/17**	**Analyzed: 01/24/17**					
Ammonia as N	0.246	0.048	mg/l	0.250	ND	98	90-110			
Matrix Spike (W7A2262-MS2)		**Source: 7A12067-02**		**Prepared: 01/18/17**	**Analyzed: 01/24/17**					
Ammonia as N	0.273	0.048	mg/l	0.250	ND	109	90-110			
Matrix Spike Dup (W7A2262-MSD1)		**Source: 7A12067-01**		**Prepared: 01/18/17**	**Analyzed: 01/24/17**					
Ammonia as N	0.246	0.048	mg/l	0.250	ND	98	90-110	0.1	15	
Matrix Spike Dup (W7A2262-MSD2)		**Source: 7A12067-02**		**Prepared: 01/18/17**	**Analyzed: 01/24/17**					
Ammonia as N	0.273	0.048	mg/l	0.250	ND	109	90-110	0.04	15	

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Quality Control Results (Continued)

Hexavalent Chromium by IC

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2611 - EPA 218.6										
Blank (W7A2611-BLK1)				**Prepared & Analyzed: 01/24/17**						
Chromium 6+	ND	0.0048	ug/l							
LCS (W7A2611-BS1)				**Prepared & Analyzed: 01/24/17**						
Chromium 6+	5.19	0.0048	ug/l	5.00		104	90-110			
Matrix Spike (W7A2611-MS1)	**Source: 7A10038-07**			**Prepared & Analyzed: 01/24/17**						
Chromium 6+	10.2	0.0048	ug/l	5.00	4.75	109	88-112			
Matrix Spike (W7A2611-MS2)	**Source: 7A24052-01**			**Prepared & Analyzed: 01/24/17**						
Chromium 6+	10.6	0.0048	ug/l	5.00	5.34	105	88-112			
Matrix Spike Dup (W7A2611-MSD1)	**Source: 7A10038-07**			**Prepared & Analyzed: 01/24/17**						
Chromium 6+	9.99	0.0048	ug/l	5.00	4.75	105	88-112	2	10	
Matrix Spike Dup (W7A2611-MSD2)	**Source: 7A24052-01**			**Prepared & Analyzed: 01/24/17**						
Chromium 6+	10.6	0.0048	ug/l	5.00	5.34	105	88-112	0.05	10	

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Quality Control Results

(Continued)

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A1855 - EPA 1640										
Blank (W7A1855-BLK1)				**Prepared: 01/12/17 Analyzed: 01/19/17**						
Selenium, Total	ND	0.034	ug/l							
Silver, Total	ND	0.018	ug/l							
LCS (W7A1855-BS1)				**Prepared: 01/12/17 Analyzed: 01/19/17**						
Selenium, Total	3.80	0.034	ug/l	5.00		76	30-122			
Silver, Total	3.87	0.018	ug/l	5.00		77	39-125			
Matrix Spike (W7A1855-MS1)			**Source: 7A05110-04**	**Prepared: 01/12/17 Analyzed: 01/19/17**						
Selenium, Total	3.34	0.034	ug/l	5.00	ND	67	34-122			
Silver, Total	2.54	0.018	ug/l	5.00	ND	51	0.1-140			
Matrix Spike (W7A1855-MS2)			**Source: 7A05110-05**	**Prepared: 01/12/17 Analyzed: 01/19/17**						
Selenium, Total	4.33	0.034	ug/l	5.00	0.0600	85	34-122			
Silver, Total	2.17	0.018	ug/l	5.00	ND	43	0.1-140			
Matrix Spike Dup (W7A1855-MSD1)			**Source: 7A05110-04**	**Prepared: 01/12/17 Analyzed: 01/19/17**						
Selenium, Total	3.82	0.034	ug/l	5.00	ND	76	34-122	13	30	
Silver, Total	1.90	0.018	ug/l	5.00	ND	38	0.1-140	29	30	
Matrix Spike Dup (W7A1855-MSD2)			**Source: 7A05110-05**	**Prepared: 01/12/17 Analyzed: 01/19/17**						
Selenium, Total	4.13	0.034	ug/l	5.00	0.0600	81	34-122	5	30	
Silver, Total	2.25	0.018	ug/l	5.00	ND	45	0.1-140	4	30	
Batch: W7A2387 - EPA 1640										
Blank (W7A2387-BLK1)				**Prepared: 01/20/17 Analyzed: 01/23/17**						
Cadmium, Total	ND	0.0017	ug/l							
Copper, Total	ND	0.0038	ug/l							
Lead, Total	ND	0.0014	ug/l							
Nickel, Total	ND	0.0040	ug/l							
Zinc, Total	0.0384	0.036	ug/l							J

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Quality Control Results (Continued)

Metals - Low Level by 1600 Series Methods (Continued)

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2387 - EPA 1640 (Continued)										
LCS (W7A2387-BS1)				**Prepared: 01/20/17 Analyzed: 01/23/17**						
Cadmium, Total	2.03	0.0017	ug/l	2.00		101	78-114			
Copper, Total	2.01	0.0038	ug/l	2.00		100	73-122			
Lead, Total	2.03	0.0014	ug/l	2.00		101	79-123			
Nickel, Total	2.02	0.0040	ug/l	2.00		101	74-127			
Zinc, Total	10.3	0.036	ug/l	10.0		103	75-127			
Matrix Spike (W7A2387-MS1)			**Source: 7A11075-01**	**Prepared: 01/20/17 Analyzed: 01/23/17**						
Cadmium, Total	2.08	0.0017	ug/l	2.00	0.138	97	68-126			
Copper, Total	14.9	0.0038	ug/l	2.00	13.2	85	60-138			
Lead, Total	3.32	0.0014	ug/l	2.00	1.38	97	64-136			
Nickel, Total	3.23	0.0040	ug/l	2.00	1.26	99	68-128			
Zinc, Total	89.6	0.036	ug/l	10.0	80.3	93	68-132			
Matrix Spike Dup (W7A2387-MSD1)			**Source: 7A11075-01**	**Prepared: 01/20/17 Analyzed: 01/23/17**						
Cadmium, Total	2.10	0.0017	ug/l	2.00	0.138	98	68-126	1	30	
Copper, Total	15.2	0.0038	ug/l	2.00	13.2	98	60-138	2	30	
Lead, Total	3.38	0.0014	ug/l	2.00	1.38	100	64-136	2	30	
Nickel, Total	3.26	0.0040	ug/l	2.00	1.26	100	68-128	0.8	30	
Zinc, Total	92.0	0.036	ug/l	10.0	80.3	117	68-132	3	30	
Batch: W7A2468 - EPA 1640										
Blank (W7A2468-BLK1)				**Prepared: 01/22/17 Analyzed: 02/01/17**						
Antimony, Total	ND	0.092	ug/l							
Arsenic, Total	ND	0.012	ug/l							
Beryllium, Total	ND	0.039	ug/l							
Chromium, Total	0.0510	0.034	ug/l							J
Thallium, Total	ND	0.011	ug/l							

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Quality Control Results (Continued)

Metals - Low Level by 1600 Series Methods (Continued)

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2468 - EPA 1640 (Continued)										
LCS (W7A2468-BS1)				**Prepared: 01/22/17 Analyzed: 02/01/17**						
Antimony, Total	3.94	0.092	ug/l	5.00		79	52-99			
Arsenic, Total	4.00	0.012	ug/l	5.00		80	48-101			
Beryllium, Total	3.52	0.039	ug/l	5.00		70	35-96			
Chromium, Total	4.50	0.034	ug/l	5.00		90	68-116			
Thallium, Total	4.27	0.011	ug/l	5.00		85	51-122			
Matrix Spike (W7A2468-MS1)				**Source: 7A12003-01 Prepared: 01/22/17 Analyzed: 02/01/17**						
Antimony, Total	4.89	0.092	ug/l	5.00	0.246	93	8-119			
Arsenic, Total	4.84	0.012	ug/l	5.00	0.840	80	28-100			
Beryllium, Total	4.78	0.039	ug/l	5.00	ND	96	32-113			
Chromium, Total	4.74	0.034	ug/l	5.00	0.334	88	60-115			
Thallium, Total	4.90	0.011	ug/l	5.00	0.0160	98	57-133			
Matrix Spike Dup (W7A2468-MSD1)				**Source: 7A12003-01 Prepared: 01/22/17 Analyzed: 02/01/17**						
Antimony, Total	3.73	0.18	ug/l	5.00	0.246	70	8-119	27	30	
Arsenic, Total	5.20	0.024	ug/l	5.00	0.840	87	28-100	7	30	
Beryllium, Total	4.18	0.078	ug/l	5.00	ND	84	32-113	13	30	
Chromium, Total	4.88	0.068	ug/l	5.00	0.334	91	60-115	3	30	
Thallium, Total	3.74	0.022	ug/l	5.00	ND	75	57-133	27	30	

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Quality Control Results (Continued)

Mercury - Low Level by CVAFS

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2601 - EPA 1631E										
Blank (W7A2601-BLK1)				**Prepared: 01/24/17**	**Analyzed: 01/25/17**					
Mercury, Total	ND	0.31	ng/l							
LCS (W7A2601-BS1)				**Prepared: 01/24/17**	**Analyzed: 01/25/17**					
Mercury, Total	4.89	0.31	ng/l	5.00		98	85-115			
LCS Dup (W7A2601-BSD1)				**Prepared: 01/24/17**	**Analyzed: 01/25/17**					
Mercury, Total	4.79	0.31	ng/l	5.00		96	85-115	2	20	
Matrix Spike (W7A2601-MS1)	**Source: 7A12003-01**			**Prepared: 01/24/17**	**Analyzed: 01/25/17**					
Mercury, Total	4.54	0.31	ng/l	5.00	ND	91	75-125			
Matrix Spike (W7A2601-MS2)	**Source: 7A09084-08**			**Prepared: 01/24/17**	**Analyzed: 01/25/17**					
Mercury, Total	49.4	0.31	ng/l	5.00	44.4	100	75-125			
Matrix Spike Dup (W7A2601-MSD1)	**Source: 7A12003-01**			**Prepared: 01/24/17**	**Analyzed: 01/25/17**					
Mercury, Total	4.66	0.31	ng/l	5.00	ND	93	75-125	3	20	
Matrix Spike Dup (W7A2601-MSD2)	**Source: 7A09084-08**			**Prepared: 01/24/17**	**Analyzed: 01/25/17**					
Mercury, Total	49.2	0.31	ng/l	5.00	44.4	96	75-125	0.4	20	

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Quality Control Results (Continued)

Organo Tin by GC/MS

Analyte	Result	MDL		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2281 - Krone, et al, 1989											
Blank (W7A2281-BLK1)					**Prepared: 01/19/17 Analyzed: 01/27/17**						
Tri-n-butyltin	ND	0.0012		ug/l							
Surrogate(s)											
Tripentyltin			*0.567*	*ug/l*	*0.200*		*284*	*43-179*			*A-01b*
LCS (W7A2281-BS1)					**Prepared: 01/19/17 Analyzed: 01/27/17**						
Tri-n-butyltin	0.0678	0.0012		ug/l	0.0500		136	40-181			
Surrogate(s)											
Tripentyltin			*0.366*	*ug/l*	*0.200*		*183*	*43-179*			*A-01a*
Matrix Spike (W7A2281-MS1)	**Source: 7A12067-04**				**Prepared: 01/19/17 Analyzed: 01/27/17**						
Tri-n-butyltin	0.115	0.0012		ug/l	0.0500	ND	229	71-149			MS-05
Surrogate(s)											
Tripentyltin			*0.490*	*ug/l*	*0.200*		*245*	*43-179*			*A-01*
Matrix Spike Dup (W7A2281-MSD1)	**Source: 7A12067-04**				**Prepared: 01/19/17 Analyzed: 01/27/17**						
Tri-n-butyltin	0.0782	0.0012		ug/l	0.0500	ND	156	71-149	38	30	MS-05
Surrogate(s)											
Tripentyltin			*0.324*	*ug/l*	*0.200*		*162*	*43-179*			

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Quality Control Results

(Continued)

Radiological Parameters by APHA/EPA Methods

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2033 - SM 7110C										
Blank (W7A2033-BLK1)				**Prepared: 01/16/17**	**Analyzed: 01/18/17**					
Gross Alpha	0.516		pCi/L							
Uncertainty: 0.108	**MDA:** 0.034									
LCS (W7A2033-BS1)				**Prepared: 01/16/17**	**Analyzed: 01/18/17**					
Gross Alpha	4.94		pCi/L	4.80		103	55-149			
Uncertainty: 0.267	**MDA:** 0.034									
Matrix Spike (W7A2033-MS1)	**Source: 7A12067-04**			**Prepared: 01/16/17**	**Analyzed: 01/19/17**					
Gross Alpha	6.49		pCi/L	4.80	2.15	90	70-130			
Uncertainty: 0.323	**MDA:** 0.034									
Matrix Spike Dup (W7A2033-MSD1)	**Source: 7A12067-04**			**Prepared: 01/16/17**	**Analyzed: 01/18/17**					
Gross Alpha	5.62		pCi/L	4.80	2.15	72	70-130	14	30	
Uncertainty: 0.292	**MDA:** 0.034									

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Quality Control Results

(Continued)

Volatile Organics by EPA Method 624

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2016 - EPA 624										
Blank (W7A2016-BLK1)				**Prepared & Analyzed: 01/16/17**						
1,1,1-Trichloroethane	ND	0.38	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.18	ug/l							
1,1,2-Trichloroethane	ND	0.25	ug/l							
1,1-Dichloroethane	ND	0.21	ug/l							
1,1-Dichloroethene	ND	0.39	ug/l							
1,2-Dichloroethane	ND	0.24	ug/l							
1,2-Dichloropropane	ND	0.18	ug/l							
2-Butanone	ND	0.47	ug/l							
2-Chloroethyl vinyl ether	ND	0.28	ug/l							
2-Hexanone	ND	0.48	ug/l							
4-Methyl-2-pentanone	ND	0.52	ug/l							
Acetone	ND	0.79	ug/l							
Acrolein	ND	2.2	ug/l							
Acrylonitrile	ND	1.8	ug/l							
Benzene	ND	0.23	ug/l							
Bromodichloromethane	ND	0.28	ug/l							
Bromoform	ND	0.32	ug/l							
Bromomethane	ND	0.47	ug/l							
Carbon Disulfide	ND	0.36	ug/l							
Carbon tetrachloride	ND	0.33	ug/l							
Chlorobenzene	ND	0.21	ug/l							
Chloroethane	ND	0.23	ug/l							
Chloroform	ND	0.25	ug/l							
Chloromethane	ND	0.26	ug/l							
cis-1,3-Dichloropropene	ND	0.22	ug/l							
Dibromochloromethane	ND	0.38	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	0.44	ug/l							
Ethylbenzene	ND	0.17	ug/l							
m-Dichlorobenzene	ND	0.35	ug/l							
Methyl tert-butyl ether (MTBE)	ND	0.25	ug/l							
Methylene chloride	ND	0.25	ug/l							
o-Dichlorobenzene	ND	0.33	ug/l							
p-Dichlorobenzene	ND	0.37	ug/l							
Tetrachloroethene	ND	0.27	ug/l							
Toluene	ND	0.22	ug/l							
trans-1,2-Dichloroethene	ND	0.23	ug/l							
trans-1,3-Dichloropropene	ND	0.32	ug/l							

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Quality Control Results (Continued)

Volatile Organics by EPA Method 624 (Continued)

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2016 - EPA 624 (Continued)										
Blank (W7A2016-BLK1)				**Prepared & Analyzed: 01/16/17**						
Trichloroethene	ND	0.37	ug/l							
Trichlorofluoromethane	ND	0.53	ug/l							
Vinyl chloride	ND	0.33	ug/l							
Surrogate(s)										
1,2-Dichloroethane-d4	*50.3*		*ug/l*	*50.0*		*101*	*82-125*			
4-Bromofluorobenzene	*48.9*		*ug/l*	*50.0*		*98*	*88-108*			
Toluene-d8	*51.2*		*ug/l*	*50.0*		*102*	*92-112*			
LCS (W7A2016-BS1)				**Prepared & Analyzed: 01/16/17**						
1,1,1-Trichloroethane	66.0	0.38	ug/l	50.0		132	52-162			
1,1,2,2-Tetrachloroethane	49.3	0.18	ug/l	50.0		99	46-157			
1,1,2-Trichloroethane	49.6	0.25	ug/l	50.0		99	52-150			
1,1-Dichloroethane	47.3	0.21	ug/l	50.0		95	59-155			
1,1-Dichloroethene	45.2	0.39	ug/l	50.0		90	0.1-234			
1,2-Dichloroethane	56.5	0.24	ug/l	50.0		113	49-155			
1,2-Dichloropropane	49.6	0.18	ug/l	50.0		99	0.1-210			
2-Butanone	54.3	0.47	ug/l	50.0		109	67-136			
2-Chloroethyl vinyl ether	32.5	0.28	ug/l	50.0		65	0.1-305			
2-Hexanone	57.2	0.48	ug/l	50.0		114	76-133			
4-Methyl-2-pentanone	50.0	0.52	ug/l	50.0		100	74-132			
Acetone	51.2	0.79	ug/l	50.0		102	60-147			
Acrolein	45.2	2.2	ug/l	50.0		90	49-152			
Acrylonitrile	48.4	1.8	ug/l	50.0		97	74-127			
Benzene	49.5	0.23	ug/l	50.0		99	37-151			
Bromodichloromethane	61.3	0.28	ug/l	50.0		123	35-155			
Bromoform	71.7	0.32	ug/l	50.0		143	45-169			
Bromomethane	46.8	0.47	ug/l	50.0		94	0.1-242			
Carbon Disulfide	49.1	0.36	ug/l	50.0		98	79-118			
Carbon tetrachloride	68.4	0.33	ug/l	50.0		137	70-140			
Chlorobenzene	49.2	0.21	ug/l	50.0		98	37-160			
Chloroethane	38.4	0.23	ug/l	50.0		77	14-230			
Chloroform	46.8	0.25	ug/l	50.0		94	51-138			
Chloromethane	50.1	0.26	ug/l	50.0		100	0.1-273			
cis-1,3-Dichloropropene	63.7	0.22	ug/l	50.0		127	0.1-227			
Dibromochloromethane	69.5	0.38	ug/l	50.0		139	53-149			
Dichlorodifluoromethane (Freon 12)	40.8	0.44	ug/l	50.0		82	67-126			
Ethylbenzene	49.6	0.17	ug/l	50.0		99	37-162			
m-Dichlorobenzene	48.7	0.35	ug/l	50.0		97	59-156			

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Quality Control Results (Continued)

Volatile Organics by EPA Method 624 (Continued)

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2016 - EPA 624 (Continued)										
LCS (W7A2016-BS1)				**Prepared & Analyzed: 01/16/17**						
Methyl tert-butyl ether (MTBE)	62.2	0.25	ug/l	50.0		124	80-128			
Methylene chloride	54.5	0.25	ug/l	50.0		109	0.1-221			
o-Dichlorobenzene	49.1	0.33	ug/l	50.0		98	18-190			
p-Dichlorobenzene	49.0	0.37	ug/l	50.0		98	18-190			
Tetrachloroethene	49.2	0.27	ug/l	50.0		98	64-148			
Toluene	53.2	0.22	ug/l	50.0		106	47-150			
trans-1,2-Dichloroethene	46.2	0.23	ug/l	50.0		92	54-156			
trans-1,3-Dichloropropene	71.5	0.32	ug/l	50.0		143	17-183			
Trichloroethene	51.4	0.37	ug/l	50.0		103	71-157			
Trichlorofluoromethane	44.2	0.53	ug/l	50.0		88	17-181			
Vinyl chloride	55.6	0.33	ug/l	50.0		111	0.1-251			
Surrogate(s)										
1,2-Dichloroethane-d4	*52.2*		*ug/l*	*50.0*		*104*	*82-125*			
4-Bromofluorobenzene	*49.1*		*ug/l*	*50.0*		*98*	*88-108*			
Toluene-d8	*50.7*		*ug/l*	*50.0*		*101*	*92-112*			
LCS Dup (W7A2016-BSD1)				**Prepared & Analyzed: 01/16/17**						
1,1,1-Trichloroethane	62.1	0.38	ug/l	50.0		124	52-162	6	25	
1,1,2,2-Tetrachloroethane	48.6	0.18	ug/l	50.0		97	46-157	1	25	
1,1,2-Trichloroethane	48.6	0.25	ug/l	50.0		97	52-150	2	25	
1,1-Dichloroethane	45.0	0.21	ug/l	50.0		90	59-155	5	25	
1,1-Dichloroethene	41.1	0.39	ug/l	50.0		82	0.1-234	9	25	
1,2-Dichloroethane	54.6	0.24	ug/l	50.0		109	49-155	3	25	
1,2-Dichloropropane	47.6	0.18	ug/l	50.0		95	0.1-210	4	25	
2-Butanone	49.5	0.47	ug/l	50.0		99	67-136	9	25	
2-Chloroethyl vinyl ether	33.0	0.28	ug/l	50.0		66	0.1-305	1	25	
2-Hexanone	53.6	0.48	ug/l	50.0		107	76-133	7	25	
4-Methyl-2-pentanone	47.6	0.52	ug/l	50.0		95	74-132	5	25	
Acetone	51.4	0.79	ug/l	50.0		103	60-147	0.2	25	
Acrolein	42.7	2.2	ug/l	50.0		85	49-152	6	25	
Acrylonitrile	45.9	1.8	ug/l	50.0		92	74-127	5	25	
Benzene	46.9	0.23	ug/l	50.0		94	37-151	5	25	
Bromodichloromethane	59.4	0.28	ug/l	50.0		119	35-155	3	25	
Bromoform	71.9	0.32	ug/l	50.0		144	45-169	0.4	25	
Bromomethane	56.2	0.47	ug/l	50.0		112	0.1-242	18	25	
Carbon Disulfide	45.6	0.36	ug/l	50.0		91	79-118	7	25	
Carbon tetrachloride	65.3	0.33	ug/l	50.0		131	70-140	5	25	
Chlorobenzene	48.1	0.21	ug/l	50.0		96	37-160	2	25	

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Quality Control Results (Continued)

Volatile Organics by EPA Method 624 (Continued)

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2016 - EPA 624 (Continued)										
LCS Dup (W7A2016-BSD1)				**Prepared & Analyzed: 01/16/17**						
Chloroethane	41.5	0.23	ug/l	50.0		83	14-230	8	25	
Chloroform	45.1	0.25	ug/l	50.0		90	51-138	4	25	
Chloromethane	45.5	0.26	ug/l	50.0		91	0.1-273	10	25	
cis-1,3-Dichloropropene	61.5	0.22	ug/l	50.0		123	0.1-227	4	25	
Dibromochloromethane	68.2	0.38	ug/l	50.0		136	53-149	2	25	
Dichlorodifluoromethane (Freon 12)	38.0	0.44	ug/l	50.0		76	67-126	7	25	
Ethylbenzene	47.7	0.17	ug/l	50.0		95	37-162	4	25	
m-Dichlorobenzene	46.8	0.35	ug/l	50.0		94	59-156	4	25	
Methyl tert-butyl ether (MTBE)	60.6	0.25	ug/l	50.0		121	80-128	3	25	
Methylene chloride	52.8	0.25	ug/l	50.0		106	0.1-221	3	25	
o-Dichlorobenzene	47.9	0.33	ug/l	50.0		96	18-190	3	25	
o-Xylene	49.0	0.32	ug/l	50.0		98	84-121	3	25	
p-Dichlorobenzene	47.2	0.37	ug/l	50.0		94	18-190	4	25	
Tetrachloroethene	46.7	0.27	ug/l	50.0		93	64-148	5	25	
Toluene	50.9	0.22	ug/l	50.0		102	47-150	4	25	
trans-1,2-Dichloroethene	42.9	0.23	ug/l	50.0		86	54-156	7	25	
trans-1,3-Dichloropropene	69.6	0.32	ug/l	50.0		139	17-183	3	25	
Trichloroethene	48.4	0.37	ug/l	50.0		97	71-157	6	25	
Trichlorofluoromethane	40.8	0.53	ug/l	50.0		82	17-181	8	25	
Vinyl chloride	49.6	0.33	ug/l	50.0		99	0.1-251	11	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*51.3*		*ug/l*	*50.0*		*103*	*82-125*			
4-Bromofluorobenzene	*50.1*		*ug/l*	*50.0*		*100*	*88-108*			
Toluene-d8	*51.3*		*ug/l*	*50.0*		*103*	*92-112*			

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Notes and Definitions

Item	Definition
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
A-01	Surrogate recovery is high possibly wrong amount of surrogate was added.
A-01a	Surrogate recovery is high possibly wrong amount of surrogate was added. The data was accepted since target analyte had acceptable recovery.
A-01b	Surrogate recovery is high possibly wrong amount of surrogate was added. The data was accepted since target analyte was not detected.
J	Estimated conc. detected <MRL and >MDL.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-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.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
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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