

ROYAL WATERWORKS, INC.

November 26, 2019

Office of Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

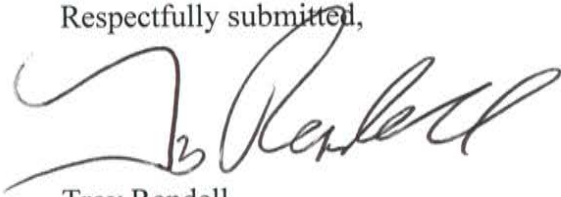
Re: Docket No. 20190170-WS - Application for transfer of facilities Certificate Nos. 259-W and 199-S in Broward County from Royal Utility Company to Royal Waterworks, Inc. – Supplemental Response to Staff Deficiency Letter

Dear Commission Clerk,

Royal Waterworks, Inc. (Royal) hereby submits its supplemental response to Staff's Deficiency Letter dated November 25, 2019 in the above referenced docket.

Attached hereto are the 2017 laboratory results for Royal Utility Company.

Respectfully submitted,



Troy Rendell
Vice President
Investor Owned Utilities
// for Royal Waterworks, Inc.



Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

October 12, 2017

Jock McCartney
Royal Utility Company
8900 NW 44 Court
Pompano Beach, FL 33065

RE: Project: 2017 Primary/Secondary/SOC/NO2
Pace Project No.: 35338792

Dear Jock McCartney:

Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: John McCartney, Royal Utility Company
Accounts Payable, Royal Utility Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2017 Primary/Secondary/SOC/NO2

Pace Project No.: 35338792

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

South Florida Certification IDs

3610 Park Central Blvd N, Pompano Beach, FL 33064

Florida Certification #: E86240

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Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

SAMPLE SUMMARY

Project: 2017 Primary/Secondary/SOC/NO2
Pace Project No.: 35338792

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35338792001	8900 NW 44 CT	Drinking Water	09/29/17 15:30	09/29/17 18:30

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SAMPLE ANALYTE COUNT

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35338792001	8900 NW 44 CT	EPA 504.1	SMH	2	PASI-O
		EPA 508.1	NS1	14	PASI-O
		EPA 515.3	LJM	7	PASI-O
		EPA 531.1	NMB	3	PASI-O
		EPA 547	NMB	1	PASI-O
		EPA 549.2	NMB	1	PASI-O
		EPA 200.7	BTS	8	PASI-O
		EPA 200.8	LEC	9	PASI-O
		EPA 245.1	MLO	1	PASI-O
		EPA 525.2	NS1	6	PASI-O
		EPA 524.2	JLR	29	PASI-O
		SM 2150B	TAN	2	PASI-SF
		SM 2540C	VVV	1	PASI-SF
		SM 2120B	KEK	2	PASI-O
		SM 5540C	TK1	2	PASI-O
		EPA 300.0	CMD	3	PASI-O
		EPA 335.4	BMU	1	PASI-O
		EPA 353.2	KEK	3	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

Sample: 8900 NW 44 CT Lab ID: 35338792001 Collected: 09/29/17 15:30 Received: 09/29/17 18:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.6	Std. Units			1		09/29/17 15:30		
Field Temperature	28.4	deg C			1		09/29/17 15:30		
Chlorine, Total Residual	1.8	mg/L			1		09/29/17 15:30	7782-50-5	
504.1 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	0.0062	U ug/L	0.019	0.0062	1	10/02/17 13:40	10/03/17 01:01	96-12-8	
1,2-Dibromoethane (EDB)	0.0072	U ug/L	0.0096	0.0072	1	10/02/17 13:40	10/03/17 01:01	106-93-4	
508.1 GCS Pesticides									
Analytical Method: EPA 508.1 Preparation Method: EPA 508.1									
Alachlor	0.034	U ug/L	0.19	0.034	1	10/03/17 21:40	10/04/17 16:17	15972-60-8	
Atrazine	0.060	U ug/L	0.096	0.060	1	10/03/17 21:40	10/04/17 16:17	1912-24-9	
gamma-BHC (Lindane)	0.0029	U ug/L	0.019	0.0029	1	10/03/17 21:40	10/04/17 16:17	58-89-9	
Chlordane (Technical)	0.045	U ug/L	0.19	0.045	1	10/03/17 21:40	10/04/17 16:17	57-74-9	
Endrin	0.0067	U ug/L	0.0096	0.0067	1	10/03/17 21:40	10/04/17 16:17	72-20-8	
Heptachlor	0.012	U ug/L	0.038	0.012	1	10/03/17 21:40	10/04/17 16:17	76-44-8	
Heptachlor epoxide	0.0029	U ug/L	0.019	0.0029	1	10/03/17 21:40	10/04/17 16:17	1024-57-3	
Hexachlorobenzene	0.018	U ug/L	0.096	0.018	1	10/03/17 21:40	10/04/17 16:17	118-74-1	
Hexachlorocyclopentadiene	0.031	U ug/L	0.096	0.031	1	10/03/17 21:40	10/04/17 16:17	77-47-4	
Methoxychlor	0.049	U ug/L	0.096	0.049	1	10/03/17 21:40	10/04/17 16:17	72-43-5	
PCB, Total	0.077	U ug/L	0.096	0.077	1	10/03/17 21:40	10/04/17 16:17	1336-36-3	
Simazine	0.066	U ug/L	0.067	0.066	1	10/03/17 21:40	10/04/17 16:17	122-34-9	
Toxaphene	0.58	U ug/L	0.96	0.58	1	10/03/17 21:40	10/04/17 16:17	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	93	%	70-130		1	10/03/17 21:40	10/04/17 16:17	2051-24-3	
515.3 Chlorinated Herbicides									
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	0.081	U ug/L	0.10	0.081	1	10/04/17 10:15	10/05/17 19:55	94-75-7	
Dalapon	0.89	U ug/L	1.0	0.89	1	10/04/17 10:15	10/05/17 19:55	75-99-0	J(M1)
Dinoseb	0.16	U ug/L	0.20	0.16	1	10/04/17 10:15	10/05/17 19:55	88-85-7	
Pentachlorophenol	0.030	U ug/L	0.040	0.030	1	10/04/17 10:15	10/05/17 19:55	87-86-5	
Picloram	0.094	U ug/L	0.10	0.094	1	10/04/17 10:15	10/05/17 19:55	1918-02-1	J(M1)
2,4,5-TP (Silvex)	0.16	U ug/L	0.20	0.16	1	10/04/17 10:15	10/05/17 19:55	93-72-1	
Surrogates									
2,4-DCAA (S)	90	%	70-130		1	10/04/17 10:15	10/05/17 19:55	19719-28-9	
531.1 HPLC Carbamates									
Analytical Method: EPA 531.1									
Carbofuran	0.32	U ug/L	2.0	0.32	1		10/05/17 07:53	1563-66-2	J(L1)
Oxamyl	0.55	U ug/L	2.0	0.55	1		10/05/17 07:53	23135-22-0	
Surrogates									
BDMC (S)	100	%	80-120		1		10/05/17 07:53		
547 HPLC Glyphosate									
Analytical Method: EPA 547									
Glyphosate	4.2	U ug/L	6.0	4.2	1		10/03/17 03:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

Sample: 8900 NW 44 CT Lab ID: 35338792001 Collected: 09/29/17 15:30 Received: 09/29/17 18:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
549.2 HPLC Paraquat Diquat Analytical Method: EPA 549.2 Preparation Method: EPA 549.2									
Diquat	0.30 U	ug/L	0.40	0.30	1	10/03/17 23:30	10/04/17 07:58	85-00-7	
200.7 MET ICP, Drinking Water Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Aluminum	50.0 U	ug/L	100	50.0	1	10/09/17 14:00	10/11/17 17:33	7429-90-5	
Cadmium	0.50 U	ug/L	1.0	0.50	1	10/09/17 14:00	10/11/17 17:33	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	10/09/17 14:00	10/11/17 17:33	7440-47-3	
Iron	20.0 U	ug/L	40.0	20.0	1	10/09/17 14:00	10/11/17 17:33	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	10/09/17 14:00	10/11/17 17:33	7440-02-0	
Silver	2.5 U	ug/L	5.0	2.5	1	10/09/17 14:00	10/11/17 17:33	7440-22-4	
Sodium	24100	ug/L	1000	500	1	10/09/17 14:00	10/11/17 17:33	7440-23-5	
Zinc	10.0 U	ug/L	20.0	10.0	1	10/09/17 14:00	10/11/17 17:33	7440-66-6	
200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Antimony	0.50 U	ug/L	1.0	0.50	1	10/09/17 14:00	10/10/17 08:58	7440-36-0	
Arsenic	0.80 I	ug/L	1.0	0.50	1	10/09/17 14:00	10/10/17 08:58	7440-38-2	
Barium	10.6	ug/L	1.0	0.50	1	10/09/17 14:00	10/10/17 08:58	7440-39-3	
Beryllium	0.070 U	ug/L	0.10	0.070	1	10/09/17 14:00	10/10/17 08:58	7440-41-7	
Copper	2.6	ug/L	1.0	0.93	1	10/09/17 14:00	10/10/17 08:58	7440-50-8	
Lead	0.50 U	ug/L	1.0	0.50	1	10/09/17 14:00	10/10/17 08:58	7439-92-1	
Manganese	0.69 U	ug/L	1.0	0.69	1	10/09/17 14:00	10/10/17 08:58	7439-96-5	
Selenium	0.50 U	ug/L	1.0	0.50	1	10/09/17 14:00	10/10/17 08:58	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	10/09/17 14:00	10/10/17 08:58	7440-28-0	
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1									
Mercury	0.10 U	ug/L	0.20	0.10	1	10/04/17 11:29	10/05/17 13:57	7439-97-6	
525.2 Base Neutral Extractable Analytical Method: EPA 525.2 Preparation Method: EPA 525.2									
Benzo(a)pyrene	0.012 U	ug/L	0.096	0.012	1	10/02/17 21:42	10/04/17 10:53	50-32-8	J(L2)
bis(2-Ethylhexyl)adipate	0.37 U	ug/L	1.5	0.37	1	10/02/17 21:42	10/04/17 10:53	103-23-1	
bis(2-Ethylhexyl)phthalate	0.48 U	ug/L	1.9	0.48	1	10/02/17 21:42	10/04/17 10:53	117-81-7	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	135	%	70-130		1	10/02/17 21:42	10/04/17 10:53	81209	P2,S3
Perylene-d12 (S)	93	%	70-130		1	10/02/17 21:42	10/04/17 10:53	1520963	
Triphenylphosphate (S)	103	%	70-130		1	10/02/17 21:42	10/04/17 10:53	115-86-6	
524.2 MSV Analytical Method: EPA 524.2									
Benzene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	71-43-2	
Bromodichloromethane	13.7	ug/L	1.0	0.25	1		10/02/17 13:17	75-27-4	
Bromoform	0.32 U	ug/L	1.0	0.32	1		10/02/17 13:17	75-25-2	
Carbon tetrachloride	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	56-23-5	
Chlorobenzene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	108-90-7	
Chloroform	35.1	ug/L	0.50	0.25	1		10/02/17 13:17	67-66-3	
Dibromochloromethane	5.0	ug/L	1.0	0.25	1		10/02/17 13:17	124-48-1	
1,2-Dichlorobenzene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	95-50-1	
1,4-Dichlorobenzene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

Sample: 8900 NW 44 CT Lab ID: 35338792001 Collected: 09/29/17 15:30 Received: 09/29/17 18:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,2-Dichloroethane	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	107-06-2	
1,1-Dichloroethane	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	75-35-4	
cis-1,2-Dichloroethane	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	156-59-2	
trans-1,2-Dichloroethane	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	156-60-5	
1,2-Dichloropropane	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	78-87-5	
Ethylbenzene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	100-41-4	
Methylene Chloride	0.44 U	ug/L	0.50	0.44	1		10/02/17 13:17	75-09-2	
Styrene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	100-42-5	
Tetrachloroethene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	127-18-4	
Toluene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	108-88-3	
Total Trihalomethanes (Calc.)	53.8	ug/L	1.0	0.32	1		10/02/17 13:17		
1,2,4-Trichlorobenzene	0.41 U	ug/L	0.50	0.41	1		10/02/17 13:17	120-82-1	
1,1,1-Trichloroethane	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	71-55-6	
1,1,2-Trichloroethane	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	79-00-5	
Trichloroethene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	79-01-6	
Vinyl chloride	0.39 U	ug/L	0.50	0.39	1		10/02/17 13:17	75-01-4	
Xylene (Total)	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/02/17 13:17	460-00-4	
Toluene-d8 (S)	92	%	70-130		1		10/02/17 13:17	2037-26-5	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1		10/02/17 13:17	17060-07-0	
2150B Threshold Odor Number		Analytical Method: SM 2150B							
Temperature, Water (C)	39.7	deg C			1		09/29/17 21:00		
Threshold Odor Number	1.0 U	TON	1.0	1.0	1		09/29/17 21:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	226	mg/L	5.0	5.0	1		10/06/17 13:43		
2120B True Color		Analytical Method: SM 2120B							
pH	7.4	units			1		09/30/17 13:30		
True Color	5.0	units	5.0	5.0	1		09/30/17 13:30		
5540C MBAS Surfactants		Analytical Method: SM 5540C							
LAS Molecular Weight, g/mol	320				1		09/30/17 19:14		
MBAS, Calculated as LAS	0.099 U	mg/L	0.20	0.099	1		09/30/17 19:14		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	43.6	mg/L	5.0	2.5	1		10/04/17 22:37	16887-00-6	
Fluoride	0.45	mg/L	0.050	0.034	1		10/04/17 22:37	16984-48-8	
Sulfate	33.6	mg/L	5.0	2.5	1		10/04/17 22:37	14808-79-8	
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4							
Cyanide	0.0050 U	mg/L	0.010	0.0050	1	10/02/17 01:40	10/03/17 03:40	57-12-5	

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ANALYTICAL RESULTS

Project: 2017 Primary/Secondary/SOC/NO2

Pace Project No.: 35338792

Sample: 8900 NW 44 CT Lab ID: 35338792001 Collected: 09/29/17 15:30 Received: 09/29/17 18:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.084	mg/L	0.050	0.025	1		09/30/17 13:58		
Nitrogen, Nitrite	0.025 U	mg/L	0.050	0.025	1		09/30/17 13:58		
Nitrogen, NO2 plus NO3	0.084	mg/L	0.050	0.025	1		09/30/17 13:58		

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2

Pace Project No.: 35338792

QC Batch: 396757

Analysis Method: EPA 531.1

QC Batch Method: EPA 531.1

Analysis Description: 531.1 HPLC Carbamate

Associated Lab Samples: 35338792001

METHOD BLANK: 2164611

Matrix: Water

Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Carbofuran	ug/L	0.32 U	2.0	0.32	10/05/17 05:13	
Oxamyl	ug/L	0.55 U	2.0	0.55	10/05/17 05:13	
BDMC (S)	%	106	80-120		10/05/17 05:13	

LABORATORY CONTROL SAMPLE: 2164612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbofuran	ug/L	10	12.2	122	80-120 J(L1)	
Oxamyl	ug/L	10	11.8	118	80-120	
BDMC (S)	%			111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2164613 2164614

Parameter	Units	35338792001		2164613		2164614		% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Carbofuran	ug/L	0.32 U	10	10	11.7	11.5	117	115	80-120	2 20
Oxamyl	ug/L	0.55 U	10	10	11.7	10.8	117	108	80-120	8 20
BDMC (S)	%						107	104	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 396245 Analysis Method: EPA 547
 QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
 Associated Lab Samples: 35338792001

METHOD BLANK: 2161388 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Glyphosate	ug/L	4.2 U	6.0	4.2	10/03/17 01:55	

LABORATORY CONTROL SAMPLE: 2161389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	45.6	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2161390 2161391

Parameter	Units	35338876001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							
Glyphosate	ug/L	4.2 U	50	50	33.2	34.7	66	69	80-120	4	30	J(M1)		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2161392 2161393

Parameter	Units	35338808004		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							
Glyphosate	ug/L	<4.2	50	50	47.0	48.2	94	96	80-120	2	30			

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 396553 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 35338792001

METHOD BLANK: 2163384 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	10/05/17 13:02	

LABORATORY CONTROL SAMPLE: 2163385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	1.8	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2163386 2163387

Parameter	Units	35336306001 Result	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	ug/L	0.00020 U mg/L	4	4	2.9	3.1	73	77	70-130	5	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2163388 2163389

Parameter	Units	35338357002 Result	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	ug/L	0.10 U	2	2	1.8	1.8	89	92	70-130	3	20		

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 397404 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET Drinking Water
 Associated Lab Samples: 35338792001

METHOD BLANK: 2169171 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	50.0 U	100	50.0	10/11/17 17:17	
Cadmium	ug/L	0.50 U	1.0	0.50	10/11/17 17:17	
Chromium	ug/L	2.5 U	5.0	2.5	10/11/17 17:17	
Iron	ug/L	20.0 U	40.0	20.0	10/11/17 17:17	
Nickel	ug/L	2.5 U	5.0	2.5	10/11/17 17:17	
Silver	ug/L	2.5 U	5.0	2.5	10/11/17 17:17	
Sodium	ug/L	500 U	1000	500	10/11/17 17:17	
Zinc	ug/L	10.0 U	20.0	10.0	10/11/17 17:17	

Parameter	Units	2169172							2169197		
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Aluminum	ug/L	2500	2520	2480	101	99	85-115	2	20		
Cadmium	ug/L	25	26.8	26.6	107	107	85-115	1	20		
Chromium	ug/L	250	260	259	104	104	85-115	0	20		
Iron	ug/L	2500	2530	2540	101	101	85-115	0	20		
Nickel	ug/L	250	264	264	105	105	85-115	0	20		
Silver	ug/L	25	26.3	26.0	105	104	85-115	1	20		
Sodium	ug/L	12500	12800	12600	102	100	85-115	2	20		
Zinc	ug/L	1250	1300	1310	104	105	85-115	0	20		

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 397406 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Drinking Water
 Associated Lab Samples: 35338792001

METHOD BLANK: 2169179 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	10/10/17 08:50	
Arsenic	ug/L	0.50 U	1.0	0.50	10/10/17 08:50	
Barium	ug/L	0.50 U	1.0	0.50	10/10/17 08:50	
Beryllium	ug/L	0.070 U	0.10	0.070	10/10/17 08:50	
Copper	ug/L	0.93 U	1.0	0.93	10/10/17 10:22	
Lead	ug/L	0.50 U	1.0	0.50	10/10/17 10:22	
Manganese	ug/L	0.69 U	1.0	0.69	10/10/17 08:50	
Selenium	ug/L	0.50 U	1.0	0.50	10/10/17 08:50	
Thallium	ug/L	0.50 U	1.0	0.50	10/10/17 08:50	

LABORATORY CONTROL SAMPLE & LCSD: 2169180 2169202

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Antimony	ug/L	50	50.8	51.4	102	103	85-115	1	20	
Arsenic	ug/L	50	50.7	51.2	101	102	85-115	1	20	
Barium	ug/L	50	50.0	50.8	100	102	85-115	2	20	
Beryllium	ug/L	5	5.2	5.4	105	107	85-115	3	20	
Copper	ug/L	50	50.2	50.8	100	102	85-115	1	20	
Lead	ug/L	50	51.2	52.1	102	104	85-115	2	20	
Manganese	ug/L	50	51.5	52.2	103	104	85-115	1	20	
Selenium	ug/L	50	50.4	50.6	101	101	85-115	0	20	
Thallium	ug/L	50	49.8	51.1	100	102	85-115	3	20	

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
Pace Project No.: 35338792

QC Batch: 396137 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 35338792001

METHOD BLANK: 2160619 Matrix: Water
Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
1,1,2-Trichloroethane	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
1,1-Dichloroethene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
1,2,4-Trichlorobenzene	ug/L	0.41 U	0.50	0.41	10/02/17 12:52	
1,2-Dichlorobenzene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
1,2-Dichloroethane	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
1,2-Dichloropropane	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
1,4-Dichlorobenzene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Benzene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Bromodichloromethane	ug/L	0.25 U	1.0	0.25	10/02/17 12:52	
Bromoform	ug/L	0.32 U	1.0	0.32	10/02/17 12:52	
Carbon tetrachloride	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Chlorobenzene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Chloroform	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
cis-1,2-Dichloroethene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Dibromochloromethane	ug/L	0.25 U	1.0	0.25	10/02/17 12:52	
Ethylbenzene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Methylene Chloride	ug/L	0.44 U	0.50	0.44	10/02/17 12:52	
Styrene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Tetrachloroethene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Toluene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Total Trihalomethanes (Calc.)	ug/L	0.32 U	1.0	0.32	10/02/17 12:52	
trans-1,2-Dichloroethene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Trichloroethene	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
Vinyl chloride	ug/L	0.39 U	0.50	0.39	10/02/17 12:52	
Xylene (Total)	ug/L	0.25 U	0.50	0.25	10/02/17 12:52	
1,2-Dichloroethane-d4 (S)	%	121	70-130		10/02/17 12:52	
4-Bromofluorobenzene (S)	%	95	70-130		10/02/17 12:52	
Toluene-d8 (S)	%	90	70-130		10/02/17 12:52	

LABORATORY CONTROL SAMPLE & LCSD: 2160620

Parameter	Units	2160621							Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD		
1,1,1-Trichloroethane	ug/L	40	47.4	46.5	118	116	70-130	2	40	
1,1,2-Trichloroethane	ug/L	40	43.7	43.0	109	108	70-130	2	40	
1,1-Dichloroethene	ug/L	40	45.3	45.2	113	113	70-130	0	40	
1,2,4-Trichlorobenzene	ug/L	40	44.2	43.9	110	110	70-130	1	40	
1,2-Dichlorobenzene	ug/L	40	44.2	43.6	111	109	70-130	2	40	
1,2-Dichloroethane	ug/L	40	44.1	43.0	110	108	70-130	2	40	
1,2-Dichloropropane	ug/L	40	38.4	39.2	96	98	70-130	2	40	

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
Pace Project No.: 35338792

Parameter	Units	2160620		2160621		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec				
1,4-Dichlorobenzene	ug/L	40	40.5	40.9	101	102	70-130	1	40
Benzene	ug/L	40	39.2	39.1	98	98	70-130	0	40
Bromodichloromethane	ug/L	40	45.2	44.9	113	112	70-130	1	40
Bromoform	ug/L	40	42.8	39.1	107	98	70-130	9	40
Carbon tetrachloride	ug/L	40	44.9	43.2	112	108	70-130	4	40
Chlorobenzene	ug/L	40	41.5	41.0	104	102	70-130	1	40
Chloroform	ug/L	40	44.2	44.4	111	111	70-130	0	40
cis-1,2-Dichloroethene	ug/L	40	41.0	42.3	102	106	70-130	3	40
Dibromochloromethane	ug/L	40	47.6	45.5	119	114	70-130	4	40
Ethylbenzene	ug/L	40	44.4	43.1	111	108	70-130	3	40
Methylene Chloride	ug/L	40	44.4	43.6	111	109	70-130	2	40
Styrene	ug/L	40	41.5	40.7	104	102	70-130	2	40
Tetrachloroethene	ug/L	40	41.2	41.1	103	103	70-130	0	40
Toluene	ug/L	40	39.9	39.3	100	98	70-130	2	40
Total Trihalomethanes (Calc.)	ug/L	160	180	174	112	109	70-130	3	40
trans-1,2-Dichloroethene	ug/L	40	46.0	45.5	115	114	70-130	1	40
Trichloroethene	ug/L	40	45.3	45.0	113	113	70-130	1	40
Vinyl chloride	ug/L	40	41.1	42.9	103	107	70-130	4	40
Xylene (Total)	ug/L	120	138	135	115	113	70-130	2	40
1,2-Dichloroethane-d4 (S)	%				114	114	70-130		
4-Bromofluorobenzene (S)	%				102	101	70-130		
Toluene-d8 (S)	%				99	98	70-130		

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 396117 Analysis Method: EPA 504.1
 QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
 Associated Lab Samples: 35338792001

METHOD BLANK: 2160566 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	10/03/17 00:16	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/03/17 00:16	

LABORATORY CONTROL SAMPLE & LCSD: 2160567 2160568

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.22	0.24	88	97	70-130	11	40	
1,2-Dibromoethane (EDB)	ug/L	.25	0.18	0.22	72	87	70-130	18	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2160641 2160642

Parameter	Units	35338791001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	<0.0063	.44	.44	0.74	0.74	170	170	65-135	0	40	J(M1)
1,2-Dibromoethane (EDB)	ug/L	<0.0074	.44	.44	0.71	0.71	162	163	65-135	0	40	J(M1)

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 396373 Analysis Method: EPA 508.1
 QC Batch Method: EPA 508.1 Analysis Description: 508 GCS Pesticide
 Associated Lab Samples: 35338792001

METHOD BLANK: 2162120 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alachlor	ug/L	0.035 U	0.20	0.035	10/04/17 13:43	
Atrazine	ug/L	0.063 U	0.10	0.063	10/04/17 13:43	
Chlordane (Technical)	ug/L	0.047 U	0.20	0.047	10/04/17 13:43	
Endrin	ug/L	0.0070 U	0.010	0.0070	10/04/17 13:43	
gamma-BHC (Lindane)	ug/L	0.0030 U	0.020	0.0030	10/04/17 13:43	
Heptachlor	ug/L	0.012 U	0.040	0.012	10/04/17 13:43	
Heptachlor epoxide	ug/L	0.0030 U	0.020	0.0030	10/04/17 13:43	
Hexachlorobenzene	ug/L	0.019 U	0.10	0.019	10/04/17 13:43	
Hexachlorocyclopentadiene	ug/L	0.032 U	0.10	0.032	10/04/17 13:43	
Methoxychlor	ug/L	0.051 U	0.10	0.051	10/04/17 13:43	
Simazine	ug/L	0.069 U	0.070	0.069	10/04/17 13:43	
Toxaphene	ug/L	0.61 U	1.0	0.61	10/04/17 13:43	
Decachlorobiphenyl (S)	%	97	70-130		10/04/17 13:43	

LABORATORY CONTROL SAMPLE: 2162121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	1	0.94	94	70-130	
Atrazine	ug/L	1.2	1.2	94	70-130	
Chlordane (Technical)	ug/L		0.047 U			
Endrin	ug/L	.05	0.046	93	70-130	
gamma-BHC (Lindane)	ug/L	.1	0.093	93	70-130	
Heptachlor	ug/L	.2	0.17	85	70-130	
Heptachlor epoxide	ug/L	.1	0.094	94	70-130	
Hexachlorobenzene	ug/L	.5	0.44	88	70-130	
Hexachlorocyclopentadiene	ug/L	.5	0.37	74	70-130	
Methoxychlor	ug/L	.5	0.49	98	70-130	
Simazine	ug/L	.88	0.85	97	70-130	
Toxaphene	ug/L		0.61 U			
Decachlorobiphenyl (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2162212 2162213

Parameter	Units	MS 35338738001		MSD		MS 2162213		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Alachlor	ug/L	0.033 U	2	2	1.9	1.9	95	96	65-135	2	40	
Atrazine	ug/L	0.060 U	2.5	2.5	2.5	2.1	101	85	65-135	17	40	
Chlordane (Technical)	ug/L	0.045 U			0.094 U	0.094 U					40	

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

Parameter	Units	2162212		2162213		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		35338738001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Endrin	ug/L	0.0067 U	.1	.1	0.090	0.095	90	95	65-135	6	40		
gamma-BHC (Lindane)	ug/L	0.0029 U	.2	.2	0.19	0.19	94	94	65-135	0	40		
Heptachlor	ug/L	0.011 U	.4	.4	0.35	0.35	86	87	65-135	0	40		
Heptachlor epoxide	ug/L	0.0029 U	.2	.2	0.18	0.19	92	94	65-135	2	40		
Hexachlorobenzene	ug/L	0.018 U	1	1	0.86	0.88	86	88	65-135	2	40		
Hexachlorocyclopentadiene	ug/L	0.031 U	1	1	0.78	0.80	78	80	65-135	3	40		
Methoxychlor	ug/L	0.049 U	1	1	1.0	1.0	100	104	65-135	4	40		
Simazine	ug/L	0.066 U	1.8	1.8	1.8	1.5	105	86	65-135	20	40		
Toxaphene	ug/L	0.58 U			1.2 U	1.2 U					40		
Decachlorobiphenyl (S)	%						94	96	70-130		40		

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
Pace Project No.: 35338792

QC Batch: 396447 Analysis Method: EPA 515.3
QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
Associated Lab Samples: 35338792001

METHOD BLANK: 2162745 Matrix: Water
Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	0.16 U	0.20	0.16	10/05/17 18:53	
2,4-D	ug/L	0.081 U	0.10	0.081	10/05/17 18:53	
Dalapon	ug/L	0.89 U	1.0	0.89	10/05/17 18:53	
Dinoseb	ug/L	0.16 U	0.20	0.16	10/05/17 18:53	
Pentachlorophenol	ug/L	0.030 U	0.040	0.030	10/05/17 18:53	
Picloram	ug/L	0.094 U	0.10	0.094	10/05/17 18:53	
2,4-DCAA (S)	%	98	70-130		10/05/17 18:53	

LABORATORY CONTROL SAMPLE: 2162746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	1	1.2	120	70-130	
2,4-D	ug/L	.5	0.64	129	70-130	
Dalapon	ug/L	5	5.8	115	70-130	
Dinoseb	ug/L	1	1.2	116	70-130	
Pentachlorophenol	ug/L	.2	0.23	117	70-130	
Picloram	ug/L	.5	0.61	122	70-130	
2,4-DCAA (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2163280 2163281

Parameter	Units	35338792001		MS		MSD		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result					
2,4,5-TP (Silvex)	ug/L	0.16 U	1	1	1	1.1	1.2	114	116	70-130	2	40
2,4-D	ug/L	0.081 U	.5	.5	.5	0.59	0.59	117	118	70-130	1	40
Dalapon	ug/L	0.89 U	5	5	5	7.6	7.7	152	153	70-130	1	40 J(M1)
Dinoseb	ug/L	0.16 U	1	1	1	1.1	1.1	112	113	70-130	2	40
Pentachlorophenol	ug/L	0.030 U	.2	.2	.2	0.21	0.22	107	110	70-130	2	40
Picloram	ug/L	0.094 U	.5	.5	.5	0.75	0.75	149	151	70-130	1	40 J(M1)
2,4-DCAA (S)	%							91	91	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2163282 2163283

Parameter	Units	35338808003		MS		MSD		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result					
2,4,5-TP (Silvex)	ug/L	<0.16	1	1	1	1.2	1.2	123	120	70-130	2	40
2,4-D	ug/L	<0.081	.5	.5	.5	0.65	0.62	129	123	70-130	5	40

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2

Pace Project No.: 35338792

Parameter	Units	2163282		2163283		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
		35338808003 Result	MS Spike Conc.	MSD Spike Conc.	RPD						RPD		
Dalapon	ug/L	<0.89	5	5	5.7	5.8	114	116	70-130	1	40		
Dinoseb	ug/L	<0.16	1	1	1.2	1.2	119	116	70-130	3	40		
Pentachlorophenol	ug/L	<0.030	.2	.2	0.23	0.23	115	113	70-130	2	40		
Picloram	ug/L	<0.094	.5	.5	0.76	0.73	152	146	70-130	5	40	J(M1)	
2,4-DCAA (S)	%						100	97	70-130				

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
Pace Project No.: 35338792

QC Batch: 396374	Analysis Method: EPA 525.2
QC Batch Method: EPA 525.2	Analysis Description: 525.2 Base Neutral Extractables
Associated Lab Samples: 35338792001	

METHOD BLANK: 2162122 Matrix: Water
Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(a)pyrene	ug/L	0.013 U	0.10	0.013	10/04/17 08:48	
bis(2-Ethylhexyl)adipate	ug/L	0.38 U	1.6	0.38	10/04/17 08:48	
bis(2-Ethylhexyl)phthalate	ug/L	0.50 U	2.0	0.50	10/04/17 08:48	
1,3-Dimethyl-2-nitrobenzene(S)	%	108	70-130		10/04/17 08:48	
Perylene-d12 (S)	%	78	70-130		10/04/17 08:48	
Triphenylphosphate (S)	%	94	70-130		10/04/17 08:48	

LABORATORY CONTROL SAMPLE: 2162123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)pyrene	ug/L	.4	0.17	42	70-130	J(L2)
bis(2-Ethylhexyl)adipate	ug/L	6.4	6.9	109	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	8	9.0	112	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			101	70-130	
Perylene-d12 (S)	%			79	70-130	
Triphenylphosphate (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2162215 2162216

Parameter	Units	35338738002		2162215		2162216		% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Benzo(a)pyrene	ug/L	0.012 U		0.54	0.57				4	40
bis(2-Ethylhexyl)adipate	ug/L	0.36 U		12.9	13.8				7	40
bis(2-Ethylhexyl)phthalate	ug/L	0.48 U		16.8	17.5				4	40
1,3-Dimethyl-2-nitrobenzene(S)	%					105	106	70-130		
Perylene-d12 (S)	%					80	83	70-130		
Triphenylphosphate (S)	%					98	96	70-130		

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 396242 Analysis Method: EPA 549.2
 QC Batch Method: EPA 549.2 Analysis Description: 549 HPLC Paraquat Diquat
 Associated Lab Samples: 35338792001

METHOD BLANK: 2161375 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diquat	ug/L	0.30 U	0.40	0.30	10/04/17 06:08	

LABORATORY CONTROL SAMPLE: 2161376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	1.8	90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2162966 2162967

Parameter	Units	35338894001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.							
Diquat	ug/L	0.30 U	2	2	1.9	2.0	93	98	70-130	5	30

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2162968 2162969

Parameter	Units	35338896001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.							
Diquat	ug/L	0.30 U	2	2	2.0	1.9	99	97	70-130	2	30

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 397636 Analysis Method: SM 2150B
 QC Batch Method: SM 2150B Analysis Description: Threshold Odor Number
 Associated Lab Samples: 35338792001

METHOD BLANK: 2170256 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Temperature, Water (C)	deg C	40.1			09/29/17 21:00	
Threshold Odor Number	TON	1.0 U	1.0	1.0	09/29/17 21:00	

SAMPLE DUPLICATE: 2170257

Parameter	Units	35338792001 Result	Dup Result	RPD	Max RPD	Qualifiers
Temperature, Water (C)	deg C	39.7	39.7	0	20	
Threshold Odor Number	TON	1.0 U	1.0 U		20	

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2

Pace Project No.: 35338792

QC Batch: 397276 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 35338792001

METHOD BLANK: 2168452 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	10/06/17 13:26	

LABORATORY CONTROL SAMPLE: 2168453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	90-110	

SAMPLE DUPLICATE: 2168454

Parameter	Units	35338825001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	135	131	3	5	

SAMPLE DUPLICATE: 2168455

Parameter	Units	35338774001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	496	513	3	5	

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 395964 Analysis Method: SM 2120B
 QC Batch Method: SM 2120B Analysis Description: 2120B True Color
 Associated Lab Samples: 35338792001

METHOD BLANK: 2159762 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
True Color	units	5.0 U	5.0	5.0	09/30/17 13:30	

LABORATORY CONTROL SAMPLE: 2159763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
True Color	units	20	20.0	100	90-110	

SAMPLE DUPLICATE: 2159764

Parameter	Units	35338792001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	units	7.4	7.4	0		
True Color	units	5.0	5.0	0	20	

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2

Pace Project No.: 35338792

QC Batch: 395936	Analysis Method: SM 5540C
QC Batch Method: SM 5540C	Analysis Description: 5540C MBAS Surfactants
Associated Lab Samples: 35338792001	

METHOD BLANK: 2159456 Matrix: Water
Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
LAS Molecular Weight, g/mol		320			09/30/17 11:13	
MBAS, Calculated as LAS	mg/L	0.099 U	0.20	0.099	09/30/17 11:13	

LABORATORY CONTROL SAMPLE: 2159457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol			320			
MBAS, Calculated as LAS	mg/L	.3	0.29	97	90-110	

MATRIX SPIKE SAMPLE: 2159459

Parameter	Units	35338385001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol		320		320			
MBAS, Calculated as LAS	mg/L	0.099 U	.3	0.18 I	60	90-110	

SAMPLE DUPLICATE: 2159458

Parameter	Units	35338385001 Result	Dup Result	RPD	Max RPD	Qualifiers
LAS Molecular Weight, g/mol		320	320	0		
MBAS, Calculated as LAS	mg/L	0.099 U	0.099 U		20	

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
Pace Project No.: 35338792

QC Batch: 396699 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35338792001

METHOD BLANK: 2164208 Matrix: Water
Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	10/04/17 18:34	
Fluoride	mg/L	0.034 U	0.050	0.034	10/04/17 18:34	
Sulfate	mg/L	2.5 U	5.0	2.5	10/04/17 18:34	

LABORATORY CONTROL SAMPLE: 2164209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.8	94	90-110	
Fluoride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	50	46.0	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2164210 2164211

Parameter	Units	35339289001		MS		MSD		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Chloride	mg/L	<2.5	50	50	50	46.2	46.2	89	89	90-110	0	20 J(M1)
Fluoride	mg/L	<0.034	5	5	5	4.9	4.9	97	97	90-110	0	20
Sulfate	mg/L	<2.5	50	50	50	45.4	45.5	88	88	90-110	0	20 J(M1)

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2

Pace Project No.: 35338792

QC Batch: 395998 Analysis Method: EPA 335.4
 QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
 Associated Lab Samples: 35338792001

METHOD BLANK: 2160094 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	0.0050 U	0.010	0.0050	10/03/17 03:14	

LABORATORY CONTROL SAMPLE: 2160095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.05	0.050	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2160096 2160097

Parameter	Units	35338527001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Cyanide	mg/L	0.0050 U	.025	.025	0.023	0.024	85	87	90-110	2	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2160098 2160099

Parameter	Units	35338372001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Cyanide	mg/L	0.0050 U	.025	.025	0.0050 U	0.0050 U	11	14	90-110	20		J(M1)

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QUALITY CONTROL DATA

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

QC Batch: 395922 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
 Associated Lab Samples: 35338792001

METHOD BLANK: 2159309 Matrix: Water
 Associated Lab Samples: 35338792001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	09/30/17 09:42	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	09/30/17 09:42	
Nitrogen, NO2 plus NO3	mg/L	0.033 U	0.050	0.033	09/30/17 09:42	

LABORATORY CONTROL SAMPLE: 2159310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	0.98	98	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 2159312

Parameter	Units	35338750004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	0.038	1	0.97	93	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.16	2	2.3	105	90-110	

SAMPLE DUPLICATE: 2159311

Parameter	Units	35338750004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.16	0.17	3	20	

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QUALIFIERS

Project: 2017 Primary/Secondary/SOC/NO2
Pace Project No.: 35338792

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach
PASI-SF Pace Analytical Services - South Florida

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U Compound was analyzed for but not detected.
J(L1) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(L2) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.
S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2017 Primary/Secondary/SOC/NO2
 Pace Project No.: 35338792

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35338792001	8900 NW 44 CT				
35338792001	8900 NW 44 CT	EPA 504.1	396117	EPA 504.1	396224
35338792001	8900 NW 44 CT	EPA 508.1	396373	EPA 508.1	396510
35338792001	8900 NW 44 CT	EPA 515.3	396447	EPA 515.3	396855
35338792001	8900 NW 44 CT	EPA 531.1	396757		
35338792001	8900 NW 44 CT	EPA 547	396245		
35338792001	8900 NW 44 CT	EPA 549.2	396242	EPA 549.2	396490
35338792001	8900 NW 44 CT	EPA 200.7	397404	EPA 200.7	397546
35338792001	8900 NW 44 CT	EPA 200.8	397406	EPA 200.8	397547
35338792001	8900 NW 44 CT	EPA 245.1	396553	EPA 245.1	396683
35338792001	8900 NW 44 CT	EPA 525.2	396374	EPA 525.2	396511
35338792001	8900 NW 44 CT	EPA 524.2	396137		
35338792001	8900 NW 44 CT	SM 2150B	397636		
35338792001	8900 NW 44 CT	SM 2540C	397276		
35338792001	8900 NW 44 CT	SM 2120B	395964		
35338792001	8900 NW 44 CT	SM 5540C	395936		
35338792001	8900 NW 44 CT	EPA 300.0	396699		
35338792001	8900 NW 44 CT	EPA 335.4	395998	EPA 335.4	396260
35338792001	8900 NW 44 CT	EPA 353.2	395922		

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Document Name:
Sample Condition Upon Receipt Form
Document No
F-FL-C-007 rev. 12

Document Revised
August 2, 2017
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO# : 35338792
Project Manager: PM: CTR **Due Date:** 10/09/17
Client: CLIENT: 36-RYLCMP

Date and Initials of person:
 Examining contents: _____
 Label: _____
 Deliver: _____
 pH: _____

Thermometer Used: T-299 Date: 9/30/17 Time: 0110 Initials: AS

State of Origin: _____

Cooler #1 Temp.*C 3.6 (Visual) +0.1 (Correction Factor) 3.7 (Actual) Samples on ice, cooling process has begun
 Cooler #2 Temp.*C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
 Cooler #3 Temp.*C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
 Cooler #4 Temp.*C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
 Cooler #5 Temp.*C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
 Cooler #6 Temp.*C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<i>No Sample ID, matched COC w/ date, time & method</i>
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation. Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

