PMTurkeyCOLPEm Resource

From: Lopez, Alex [Alex.Lopez@dep.state.fl.us]
Sent: Wednesday, July 25, 2012 10:01 AM
To: Willingham, Michael
Cc: mhwillingham@yahoo.com
Subject: MDWASD South District WWTP 2012 Annual Effluent Analysis
Attachments: PrimaryandSecondaryDWS03052012.pdf

Hi Michael,

Please see the attached results for the Miami-Dade South District WWTP's 2012 Annual Effluent Analysis,

I should have the rest of the reports dating back to 2007 by the end of today,

Please let me know if I can assist you with anything else,

Thanks,

Alex Lopez, E.I.
Engineer Specialist - Water Facilities
FL Department of Environmental Protection
Southeast District
Phone: (561) 681-6782
Alex.Lopez@dep.state.fl.us

Hearing Identifier: TurkeyPoint_COL_Public
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Subject: MDWASD South District WWTP 2012 Annual Effluent Analysis
Sent Date: 7/25/2012 10:01:14 AM
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From: Lopez, Alex

Created By: Alex.Lopez@dep.state.fl.us

Recipients:
"mhwillingham@yahoo.com" <mhwillingham@yahoo.com>
Tracking Status: None
"Willingham, Michael" <Michael.Willingham@nrc.gov>
Tracking Status: None

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Pompano Beach, FL 33064
954-582-4300

March 05, 2012

Clive Powell
Miami Dade Water & Sewer-South
8950 SW 232 Street
Miami, FL 33190

RE: Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Dear Clive Powell:
Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Rossy Guima

rossy.guima@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, Miami Dade Water & Sewer Department

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
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New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia VELAP (Cert # 460198)
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH 0216
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
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
U.S.Virgin Islands Certification: FL NELAC Reciprocity
Virginia Certification #: 00432
Virginia Environmental Certificate #: 460165
Washington Certification #: C955
Wyoming Certification: FL NELAC Reciprocity
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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SAMPLE SUMMARY

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3550282001	SD COMBINED EFFLUENT	Water	02/15/12 00:00	02/17/12 13:07
3550282002	SD HLD EFFLUENT	Water	02/15/12 00:00	02/17/12 13:07

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SAMPLE ANALYTE COUNT

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3550282001	SD COMBINED EFFLUENT	EPA 504.1	JLR	2	PASI-O
		EPA 508.1	KMH	22	PASI-O
		EPA 515.3	LJM	7	PASI-O
		EPA 531.1	DWL	6	PASI-O
		EPA 547	DWL	1	PASI-O
		EPA 549.2	DWL	1	PASI-O
		EPA 8081	JLG	3	PASI-O
		EPA 200.7	IST	8	PASI-O
		EPA 200.8	HEA	9	PASI-O
		EPA 245.1	HEA	1	PASI-O
		EPA 525.2	WFH	6	PASI-O
		EPA 548.1	EAO	1	PASI-O
		EPA 625	JEZ	15	PASI-O
		EPA 524.2	JBH	31	PASI-O
		EPA 900.0m	JC2	1	PASI-PA
		EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	AMK	1	PASI-PA
		SM 2120B	DMH	1	PASI-SF
		SM 2150B	DMH	2	PASI-SF
		SM 2540C	LCM	1	PASI-SF
		EPA 300.0	DMH	2	PASI-SF
		SM 4500-H+B	DMH	2	PASI-SF
		SM 5540C	SLS	1	PASI-SF
		SM 9222B	SLS	1	PASI-SF
		TKN+NOx Calculation	AMD	1	PASI-O
		EPA 300.0	IRL	3	PASI-O
		EPA 335.4	SOA	1	PASI-O
		EPA 350.1	SOA	1	PASI-O
		EPA 351.2	MBS	1	PASI-O
		EPA 353.2	MBS	1	PASI-O
		EPA 365.4	MBS	1	PASI-O
3550282002	SD HLD EFFLUENT	EPA 504.1	JLR	2	PASI-O
		EPA 508.1	KMH	22	PASI-O
		EPA 515.3	LJM	7	PASI-O
		EPA 531.1	DWL	6	PASI-O
		EPA 547	DWL	1	PASI-O
		EPA 549.2	DWL	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8081	JLG	3	PASI-O
		EPA 200.7	IST	8	PASI-O
		EPA 200.8	HEA	9	PASI-O
		EPA 245.1	HEA	1	PASI-O
		EPA 525.2	WFH	6	PASI-O
		EPA 548.1	EAO	1	PASI-O
		EPA 625	JEZ	15	PASI-O
		EPA 524.2	JBH	31	PASI-O
		EPA 900.0m	JC2	1	PASI-PA
		EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	AMK	1	PASI-PA
		SM 2120B	DMH	1	PASI-SF
		SM 2150B	DMH	2	PASI-SF
		SM 2540C	LCM	1	PASI-SF
		EPA 300.0	DMH	2	PASI-SF
		SM 4500-H+B	DMH	2	PASI-SF
		SM 5540C	SLS	1	PASI-SF
		SM 9222B	SLS	1	PASI-SF
		TKN+NOx Calculation	AMD	1	PASI-O
		EPA 300.0	IRL	3	PASI-O
		EPA 335.4	SOA	1	PASI-O
		EPA 350.1	SOA	1	PASI-O
		EPA 351.2	MBS	1	PASI-O
		EPA 353.2	MBS	1	PASI-O
		EPA 365.4	MBS	1	PASI-O

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD COMBINED EFFLUENT **Lab ID: 3550282001** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromo-3-chloropropane	**0.0049U**	ug/L	0.020	0.0049	1	02/20/12 09:00	02/20/12 21:25	96-12-8	J(M1)
1,2-Dibromoethane (EDB)	**0.0062U**	ug/L	0.010	0.0062	1	02/20/12 09:00	02/20/12 21:25	106-93-4	J(M1)
508.1 GCS Pesticides	Analytical Method: EPA 508.1 Preparation Method: EPA 508.1								
Alachlor	**0.039U**	ug/L	0.23	0.039	1	02/20/12 11:15	02/22/12 04:50	15972-60-8	
Atrazine	**0.024U**	ug/L	0.11	0.024	1	02/20/12 11:15	02/22/12 04:50	1912-24-9	
gamma-BHC (Lindane)	**0.0034U**	ug/L	0.023	0.0034	1	02/20/12 11:15	02/22/12 04:50	58-89-9	
Chlordane (Technical)	**0.053U**	ug/L	0.23	0.053	1	02/20/12 11:15	02/22/12 04:50	57-74-9	
Dieldrin	**0.016U**	ug/L	0.11	0.016	1	02/20/12 11:15	02/22/12 04:50	60-57-1	
Endrin	**0.0023U**	ug/L	0.011	0.0023	1	02/20/12 11:15	02/22/12 04:50	72-20-8	
Heptachlor	**0.0068U**	ug/L	0.045	0.0068	1	02/20/12 11:15	02/22/12 04:50	76-44-8	
Heptachlor epoxide	**0.0034U**	ug/L	0.023	0.0034	1	02/20/12 11:15	02/22/12 04:50	1024-57-3	
Hexachlorobenzene	**0.013U**	ug/L	0.11	0.013	1	02/20/12 11:15	02/22/12 04:50	118-74-1	
Hexachlorocyclopentadiene	**0.014U**	ug/L	0.11	0.014	1	02/20/12 11:15	02/22/12 04:50	77-47-4	
Methoxychlor	**0.016U**	ug/L	0.11	0.016	1	02/20/12 11:15	02/22/12 04:50	72-43-5	
PCB-1016 (Aroclor 1016)	**0.091U**	ug/L	0.11	0.091	1	02/20/12 11:15	02/22/12 04:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**0.033U**	ug/L	0.11	0.033	1	02/20/12 11:15	02/22/12 04:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**0.033U**	ug/L	0.11	0.033	1	02/20/12 11:15	02/22/12 04:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**0.058U**	ug/L	0.11	0.058	1	02/20/12 11:15	02/22/12 04:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**0.071U**	ug/L	0.11	0.071	1	02/20/12 11:15	02/22/12 04:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**0.026U**	ug/L	0.11	0.026	1	02/20/12 11:15	02/22/12 04:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**0.075U**	ug/L	0.11	0.075	1	02/20/12 11:15	02/22/12 04:50	11096-82-5	
PCB, Total	**0.11U**	ug/L	0.11	0.11	1	02/20/12 11:15	02/22/12 04:50	1336-36-3	
Simazine	**0.050U**	ug/L	0.080	0.050	1	02/20/12 11:15	02/22/12 04:50	122-34-9	
Toxaphene	**0.69U**	ug/L	1.1	0.69	1	02/20/12 11:15	02/22/12 04:50	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	79	%	70-130		1	02/20/12 11:15	02/22/12 04:50	2051-24-3	
515.3 Chlorinated Herbicides	Analytical Method: EPA 515.3 Preparation Method: EPA 515.3								
2,4-D	**0.017U**	ug/L	0.10	0.017	1	02/20/12 16:30	02/21/12 04:43	94-75-7	
Dalapon	**0.36U**	ug/L	1.0	0.38	1	02/20/12 16:30	02/21/12 04:43	127-20-8	L3
Dinoseb	**0.050U**	ug/L	0.20	0.050	1	02/20/12 16:30	02/21/12 04:43	88-85-7	L3
Pentachlorophenol	**0.0090U**	ug/L	0.040	0.0090	1	02/20/12 16:30	02/21/12 04:43	87-86-5	
Picloram	**0.050U**	ug/L	0.10	0.050	1	02/20/12 16:30	02/21/12 04:43	1918-02-1	
2,4,5-TP (Silvex)	**0.035U**	ug/L	0.20	0.035	1	02/20/12 16:30	02/21/12 04:43	93-72-1	
Surrogates									
2,4-DCAA (S)	115	%	70-130		1	02/20/12 16:30	02/21/12 04:43	19719-28-9	
531.1 GCS Carbamates	Analytical Method: EPA 531.1								
Aldicarb	**0.64U**	ug/L	2.0	0.64	1		02/22/12 09:41	116-06-3	
Aldicarb sulfone	**0.35U**	ug/L	2.0	0.35	1		02/22/12 09:41	1646-88-4	
Aldicarb sulfoxide	**0.30U**	ug/L	2.0	0.30	1		02/22/12 09:41	1646-87-3	
Carbofuran	**0.32U**	ug/L	2.0	0.32	1		02/22/12 09:41	1563-66-2	
Oxamyl	**0.41U**	ug/L	2.0	0.41	1		02/22/12 09:41	23135-22-0	L3
Surrogates									
Propoxur (S)	127	%	80-120		1		02/22/12 09:41	114-26-1	S3

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD COMBINED EFFLUENT **Lab ID: 3550282001** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate	Analytical Method: EPA 547								
Glyphosate	**2.1U**	ug/L	6.0	2.1	1		02/20/12 09:58		
549.2 GCS Paraquat Diquat	Analytical Method: EPA 549.2 Preparation Method: EPA 549.2								
Diquat	**0.15U**	ug/L	0.40	0.15	1	02/21/12 22:30	02/22/12 10:59	85-00-7	
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
Aldrin	**0.00056U**	ug/L	0.011	0.00056	1	02/20/12 08:00	02/22/12 04:04	309-00-2	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	66.5-120.3		1	02/20/12 08:00	02/22/12 04:04	877-09-8	
Decachlorobiphenyl (S)	66	%	41.7-109.1		1	02/20/12 08:00	02/22/12 04:04	2051-24-3	J(S1)
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum	**0.050U**	mg/L	0.10	0.050	1	02/20/12 09:54	02/21/12 06:19	7429-90-5	
Cadmium	**0.00050U**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/21/12 06:19	7440-43-9	
Chromium	**0.0025U**	mg/L	0.0050	0.0025	1	02/20/12 09:54	02/21/12 06:19	7440-47-3	
Iron	**0.17**	mg/L	0.040	0.020	1	02/20/12 09:54	02/21/12 06:19	7439-89-6	
Nickel	**0.0025U**	mg/L	0.0050	0.0025	1	02/20/12 09:54	02/21/12 06:19	7440-02-0	
Silver	**0.0025U**	mg/L	0.0050	0.0025	1	02/20/12 09:54	02/21/12 06:19	7440-22-4	
Sodium	**48.1**	mg/L	1.0	0.50	1	02/20/12 09:54	02/21/12 06:19	7440-23-5	
Zinc	**0.011** I	mg/L	0.020	0.010	1	02/20/12 09:54	02/21/12 06:19	7440-66-6	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Antimony	**0.00050U**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/22/12 13:14	7440-36-0	
Arsenic	**0.0012**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/22/12 13:14	7440-38-2	
Barium	**0.012**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/22/12 13:14	7440-39-3	
Beryllium	**0.000050U**	mg/L	0.00010	0.000050	1	02/20/12 09:54	02/22/12 13:14	7440-41-7	
Copper	**0.0018**	mg/L	0.0010	0.00093	1	02/20/12 09:54	02/22/12 13:14	7440-50-8	
Lead	**0.00050U**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/22/12 13:14	7439-92-1	
Manganese	**0.011**	mg/L	0.0010	0.00069	1	02/20/12 09:54	02/22/12 13:14	7439-96-5	
Selenium	**0.00050U**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/22/12 13:14	7782-49-2	
Thallium	**0.00050U**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/22/12 13:14	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	**0.00010U**	mg/L	0.00020	0.00010	1	02/18/12 11:00	02/24/12 14:05	7439-97-6	
525.2 Base Neutral Extractable	Analytical Method: EPA 525.2 Preparation Method: EPA 525.2								
Benzo(a)pyrene	**0.021U**	ug/L	0.11	0.021	1	02/20/12 16:30	02/21/12 13:25	50-32-8	L3
bis(2-Ethylhexyl)adipate	**0.42U**	ug/L	1.8	0.42	1	02/20/12 16:30	02/21/12 13:25	103-23-1	
bis(2-Ethylhexyl)phthalate	**41.4**	ug/L	4.4	1.1	2	02/20/12 16:30	02/22/12 10:11	117-81-7	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	89	%	70-130		1	02/20/12 16:30	02/21/12 13:25	81209	
Perylene-d12 (S)	97	%	70-130		1	02/20/12 16:30	02/21/12 13:25	1520963	
Triphenylphosphate (S)	105	%	70-130		1	02/20/12 16:30	02/21/12 13:25	115-86-6	

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD COMBINED EFFLUENT **Lab ID: 3550282001** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
548.1 GCS Endothall	Analytical Method: EPA 548.1 Preparation Method: EPA 548.1								
Endothall	**2.7U**	ug/L	9.0	2.7	1	02/20/12 15:45	02/21/12 14:35		
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625								
Anthracene	**0.67U**	ug/L	5.6	0.67	1	02/18/12 08:30	02/19/12 16:26	120-12-7	
Butylbenzylphthalate	**0.81U**	ug/L	5.6	0.81	1	02/18/12 08:30	02/19/12 16:26	85-68-7	
2-Chlorophenol	**0.76U**	ug/L	5.6	0.76	1	02/18/12 08:30	02/19/12 16:26	95-57-8	
Dimethylphthalate	**0.72U**	ug/L	5.6	0.72	1	02/18/12 08:30	02/19/12 16:26	131-11-3	
Dioxin Screen	**11.2U**	ug/L	11.2	11.2	1	02/18/12 08:30	02/19/12 16:26	.....	N2
Naphthalene	**0.87U**	ug/L	5.6	0.87	1	02/18/12 08:30	02/19/12 16:26	91-20-3	
Phenanthrene	**0.58U**	ug/L	5.6	0.58	1	02/18/12 08:30	02/19/12 16:26	85-01-8	
Phenol	**0.60U**	ug/L	5.6	0.60	1	02/18/12 08:30	02/19/12 16:26	108-95-2	
2,4,6-Trichlorophenol	**0.77U**	ug/L	2.2	0.77	1	02/18/12 08:30	02/19/12 16:26	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	49	%	37.3-107.7		1	02/18/12 08:30	02/19/12 16:26	4165-60-0	
2-Fluorobiphenyl (S)	57	%	35.3-102.4		1	02/18/12 08:30	02/19/12 16:26	321-60-8	
Terphenyl-d14 (S)	86	%	50.1-115.1		1	02/18/12 08:30	02/19/12 16:26	1718-51-0	
Phenol-d6 (S)	16	%	10-47.1		1	02/18/12 08:30	02/19/12 16:26	13127-88-3	
2-Fluorophenol (S)	26	%	16.3-59.8		1	02/18/12 08:30	02/19/12 16:26	367-12-4	
2,4,6-Tribromophenol (S)	74	%	54.2-114.4		1	02/18/12 08:30	02/19/12 16:26	118-79-6	
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	71-43-2	
Bromodichloromethane	**0.92**	ug/L	0.50	0.25	1		02/21/12 15:26	75-27-4	
Bromoform	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	75-25-2	L3
Carbon tetrachloride	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	56-23-5	
Chlorobenzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	108-90-7	
Chloroethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	75-00-3	
Chloroform	**7.4**	ug/L	0.50	0.25	1		02/21/12 15:26	67-66-3	
Dibromochloromethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	124-48-1	
1,2-Dichlorobenzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	95-50-1	
1,4-Dichlorobenzene	**1.3**	ug/L	0.50	0.25	1		02/21/12 15:26	106-46-7	
1,2-Dichloroethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	107-06-2	
1,1-Dichloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	75-35-4	L3
cis-1,2-Dichloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	156-59-2	
trans-1,2-Dichloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	156-60-5	
1,2-Dichloropropane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	78-87-5	
Ethylbenzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	100-41-4	
Methylene Chloride	**0.44U**	ug/L	0.50	0.44	1		02/21/12 15:26	75-09-2	L3
Styrene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	100-42-5	
Tetrachloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	127-18-4	
Toluene	**0.42 I**	ug/L	0.50	0.25	1		02/21/12 15:26	108-88-3	
Total Trihalomethanes (Calc.)	**8.3**	ug/L	0.50	0.25	1		02/21/12 15:26		

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD COMBINED EFFLUENT **Lab ID: 3550282001** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
1,2,4-Trichlorobenzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	120-82-1	
1,1,1-Trichloroethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	71-55-6	
1,1,2-Trichloroethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	79-00-5	
Trichloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	79-01-6	
Vinyl chloride	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	75-01-4	L3
Xylene (Total)	**0.25U**	ug/L	0.50	0.25	1		02/21/12 15:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		02/21/12 15:26	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		02/21/12 15:26	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		02/21/12 15:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/21/12 15:26	17060-07-0	
2120B True Color	Analytical Method: SM 2120B								
True Color	**30.0**	units	5.0	5.0	1		02/17/12 20:50		Q
2150B Threshold Odor Number	Analytical Method: SM 2150B								
Temperature, Water (C)	**40.0**	deg C			1		02/17/12 19:15		
Threshold Odor Number	**40.0**	TON	1.0	1.0	1		02/17/12 19:15		Q
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**360**	mg/L	5.0	5.0	1		02/20/12 14:56		
300.0 IC Anions DW	Analytical Method: EPA 300.0								
Nitrate as N	**0.025U**	mg/L	0.050	0.025	1		02/17/12 22:35	14797-55-8	Q
Nitrite as N	**0.11**	mg/L	0.050	0.025	1		02/17/12 22:35	14797-65-0	Q
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
Temperature, Water (C)	**25.0**	deg C	0.010	0.010	1		02/29/12 12:10		
pH at 25 Degrees C	**7.9**	Std. Units	0.10	0.10	1		02/29/12 12:10		Q
5540C MBAS Surfactants	Analytical Method: SM 5540C								
Surfactants	**0.12 I**	mg/L	0.20	0.059	1		02/17/12 13:40		Q
9222B Totsl Coliform MF	Analytical Method: SM 9222B Preparation Method: SM 9222B								
Total Coliforms	**22.0**	CFU/100 mL	2.0	2.0	2	02/17/12 15:00	02/18/12 15:10		Q
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**17.6**	mg/L	0.50	0.25	1		02/21/12 15:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**76.1**	mg/L	5.0	2.5	1		02/23/12 05:22	16887-00-6	
Fluoride	**0.31**	mg/L	0.050	0.025	1		02/23/12 05:22	16984-48-8	
Sulfate	**19.8**	mg/L	5.0	2.5	1		02/23/12 05:22	14808-79-8	

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD COMBINED EFFLUENT **Lab ID: 3550282001** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.0072 I**	mg/L	0.010	0.0050	1	02/22/12 08:50	02/23/12 05:35	57-12-5	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**15.5**	mg/L	0.10	0.040	2		02/21/12 12:42	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**16.9**	mg/L	0.50	0.086	1	02/20/12 09:00	02/21/12 11:06	7727-37-9	J(M1)
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.67**	mg/L	0.050	0.010	1		02/20/12 12:53		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**1.5**	mg/L	0.10	0.050	1	02/20/12 09:00	02/21/12 11:06	7723-14-0	

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD HLD EFFLUENT **Lab ID: 3550282002** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromo-3-chloropropane	**0.0047U**	ug/L	0.019	0.0047	1	02/20/12 09:00	02/20/12 22:10	96-12-8	
1,2-Dibromoethane (EDB)	**0.0060U**	ug/L	0.0096	0.0060	1	02/20/12 09:00	02/20/12 22:10	106-93-4	
508.1 GCS Pesticides	Analytical Method: EPA 508.1 Preparation Method: EPA 508.1								
Alachlor	**0.034U**	ug/L	0.20	0.034	1	02/20/12 11:15	02/22/12 05:48	15972-60-8	
Atrazine	**0.021U**	ug/L	0.10	0.021	1	02/20/12 11:15	02/22/12 05:48	1912-24-9	
gamma-BHC (Lindane)	**0.0030U**	ug/L	0.020	0.0030	1	02/20/12 11:15	02/22/12 05:48	58-89-9	
Chlordane (Technical)	**0.048U**	ug/L	0.20	0.048	1	02/20/12 11:15	02/22/12 05:48	57-74-9	
Dieldrin	**0.014U**	ug/L	0.10	0.014	1	02/20/12 11:15	02/22/12 05:48	60-57-1	
Endrin	**0.0020U**	ug/L	0.010	0.0020	1	02/20/12 11:15	02/22/12 05:48	72-20-8	
Heptachlor	**0.0061U**	ug/L	0.041	0.0061	1	02/20/12 11:15	02/22/12 05:48	76-44-8	
Heptachlor epoxide	**0.0030U**	ug/L	0.020	0.0030	1	02/20/12 11:15	02/22/12 05:48	1024-57-3	
Hexachlorobenzene	**0.011U**	ug/L	0.10	0.011	1	02/20/12 11:15	02/22/12 05:48	118-74-1	
Hexachlorocyclopentadiene	**0.012U**	ug/L	0.10	0.012	1	02/20/12 11:15	02/22/12 05:48	77-47-4	
Methoxychlor	**0.014U**	ug/L	0.10	0.014	1	02/20/12 11:15	02/22/12 05:48	72-43-5	
PCB-1016 (Aroclor 1016)	**0.081U**	ug/L	0.10	0.081	1	02/20/12 11:15	02/22/12 05:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**0.029U**	ug/L	0.10	0.029	1	02/20/12 11:15	02/22/12 05:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**0.029U**	ug/L	0.10	0.029	1	02/20/12 11:15	02/22/12 05:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**0.052U**	ug/L	0.10	0.052	1	02/20/12 11:15	02/22/12 05:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**0.063U**	ug/L	0.10	0.063	1	02/20/12 11:15	02/22/12 05:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**0.023U**	ug/L	0.10	0.023	1	02/20/12 11:15	02/22/12 05:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**0.067U**	ug/L	0.10	0.067	1	02/20/12 11:15	02/22/12 05:48	11096-82-5	
PCB, Total	**0.10U**	ug/L	0.10	0.10	1	02/20/12 11:15	02/22/12 05:48	1336-36-3	
Simazine	**0.045U**	ug/L	0.071	0.045	1	02/20/12 11:15	02/22/12 05:48	122-34-9	
Toxaphene	**0.62U**	ug/L	1.0	0.62	1	02/20/12 11:15	02/22/12 05:48	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	75	%	70-130		1	02/20/12 11:15	02/22/12 05:48	2051-24-3	
515.3 Chlorinated Herbicides	Analytical Method: EPA 515.3 Preparation Method: EPA 515.3								
2,4-D	**0.017U**	ug/L	0.10	0.017	1	02/20/12 16:30	02/21/12 05:13	94-75-7	
Dalapon	**0.38U**	ug/L	1.0	0.38	1	02/20/12 16:30	02/21/12 05:13	127-20-8	L3
Dinoseb	**0.050U**	ug/L	0.20	0.050	1	02/20/12 16:30	02/21/12 05:13	88-85-7	L3
Pentachlorophenol	**0.0090U**	ug/L	0.040	0.0090	1	02/20/12 16:30	02/21/12 05:13	87-86-5	
Picloram	**0.050U**	ug/L	0.10	0.050	1	02/20/12 16:30	02/21/12 05:13	1918-02-1	
2,4,5-TP (Silvex)	**0.035U**	ug/L	0.20	0.035	1	02/20/12 16:30	02/21/12 05:13	93-72-1	
Surrogates									
2,4-DCAA (S)	120	%	70-130		1	02/20/12 16:30	02/21/12 05:13	19719-28-9	
531.1 GCS Carbamates	Analytical Method: EPA 531.1								
Aldicarb	**0.64U**	ug/L	2.0	0.64	1		02/22/12 10:25	116-06-3	
Aldicarb sulfone	**0.35U**	ug/L	2.0	0.35	1		02/22/12 10:25	1646-88-4	
Aldicarb sulfoxide	**0.30U**	ug/L	2.0	0.30	1		02/22/12 10:25	1646-87-3	
Carbofuran	**0.32U**	ug/L	2.0	0.32	1		02/22/12 10:25	1563-66-2	
Oxamyl	**0.41U**	ug/L	2.0	0.41	1		02/22/12 10:25	23135-22-0	L3
Surrogates									
Propoxur (S)	147	%	80-120		1		02/22/12 10:25	114-26-1	S3

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD HLD EFFLUENT **Lab ID: 3550282002** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate	Analytical Method: EPA 547								
Glyphosate	**2.1U**	ug/L	6.0	2.1	1		02/20/12 10:53		
549.2 GCS Paraquat Diquat	Analytical Method: EPA 549.2 Preparation Method: EPA 549.2								
Diquat	**0.15U**	ug/L	0.40	0.15	1	02/21/12 22:30	02/22/12 11:08	85-00-7	
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
Aldrin	**0.00052U**	ug/L	0.010	0.00052	1	02/20/12 08:00	02/22/12 04:24	309-00-2	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	66.5-120.3		1	02/20/12 08:00	02/22/12 04:24	877-09-8	
Decachlorobiphenyl (S)	74	%	41.7-109.1		1	02/20/12 08:00	02/22/12 04:24	2051-24-3	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum	**0.050U**	mg/L	0.10	0.050	1	02/20/12 09:54	02/21/12 06:27	7429-90-5	
Cadmium	**0.00050U**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/21/12 06:27	7440-43-9	
Chromium	**0.0025U**	mg/L	0.0050	0.0025	1	02/20/12 09:54	02/21/12 06:27	7440-47-3	
Iron	**0.16**	mg/L	0.040	0.020	1	02/20/12 09:54	02/21/12 06:27	7439-89-6	
Nickel	**0.0025U**	mg/L	0.0050	0.0025	1	02/20/12 09:54	02/21/12 06:27	7440-02-0	
Silver	**0.0025U**	mg/L	0.0050	0.0025	1	02/20/12 09:54	02/21/12 06:27	7440-22-4	
Sodium	**47.9**	mg/L	1.0	0.50	1	02/20/12 09:54	02/21/12 06:27	7440-23-5	
Zinc	**0.010U**	mg/L	0.020	0.010	1	02/20/12 09:54	02/21/12 06:27	7440-66-6	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Antimony	**0.0025U**	mg/L	0.0050	0.0025	5	02/20/12 09:54	02/23/12 13:31	7440-36-0	D3
Arsenic	**0.0025U**	mg/L	0.0050	0.0025	5	02/20/12 09:54	02/23/12 13:31	7440-38-2	D3
Barium	**0.013**	mg/L	0.0050	0.0025	5	02/20/12 09:54	02/23/12 13:31	7440-39-3	D3
Beryllium	**0.00025U**	mg/L	0.00050	0.00025	5	02/20/12 09:54	02/23/12 13:31	7440-41-7	D3
Copper	**0.0046U**	mg/L	0.0050	0.0046	5	02/20/12 09:54	02/23/12 13:31	7440-50-8	D3
Lead	**0.00050U**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/22/12 13:21	7439-92-1	
Manganese	**0.0098**	mg/L	0.0050	0.0034	5	02/20/12 09:54	02/23/12 13:31	7439-96-5	D3
Selenium	**0.0025U**	mg/L	0.0050	0.0025	5	02/20/12 09:54	02/23/12 13:31	7782-49-2	D3
Thallium	**0.00050U**	mg/L	0.0010	0.00050	1	02/20/12 09:54	02/22/12 13:21	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	**0.00012** I	mg/L	0.00020	0.00010	1	02/18/12 11:00	02/24/12 14:08	7439-97-6	
525.2 Base Neutral Extractable	Analytical Method: EPA 525.2 Preparation Method: EPA 525.2								
Benzo(a)pyrene	**0.022U**	ug/L	0.11	0.022	1	02/21/12 09:10	02/21/12 13:41	50-32-8	L3
bis(2-Ethylhexyl)adipate	**0.44U**	ug/L	1.8	0.44	1	02/21/12 09:10	02/21/12 13:41	103-23-1	
bis(2-Ethylhexyl)phthalate	**3.3**	ug/L	2.3	0.57	1	02/21/12 09:10	02/21/12 13:41	117-81-7	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	90	%	70-130		1	02/21/12 09:10	02/21/12 13:41	81209	
Perylene-d12 (S)	109	%	70-130		1	02/21/12 09:10	02/21/12 13:41	1520963	
Triphenylphosphate (S)	106	%	70-130		1	02/21/12 09:10	02/21/12 13:41	115-86-6	

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD HLD EFFLUENT **Lab ID: 3550282002** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
548.1 GCS Endothall	Analytical Method: EPA 548.1 Preparation Method: EPA 548.1								
Endothall	**2.7U**	ug/L	9.0	2.7	1	02/20/12 15:45	02/21/12 14:50		
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625								
Anthracene	**0.62U**	ug/L	5.2	0.62	1	02/18/12 08:30	02/19/12 16:44	120-12-7	
Butylbenzylphthalate	**0.74U**	ug/L	5.2	0.74	1	02/18/12 08:30	02/19/12 16:44	85-68-7	
2-Chlorophenol	**0.70U**	ug/L	5.2	0.70	1	02/18/12 08:30	02/19/12 16:44	95-57-8	
Dimethylphthalate	**0.66U**	ug/L	5.2	0.66	1	02/18/12 08:30	02/19/12 16:44	131-11-3	
Dioxin Screen	**10.3U**	ug/L	10.3	10.3	1	02/18/12 08:30	02/19/12 16:44	.....	N2
Naphthalene	**0.81U**	ug/L	5.2	0.81	1	02/18/12 08:30	02/19/12 16:44	91-20-3	
Phenanthrene	**0.54U**	ug/L	5.2	0.54	1	02/18/12 08:30	02/19/12 16:44	85-01-8	
Phenol	**0.56U**	ug/L	5.2	0.56	1	02/18/12 08:30	02/19/12 16:44	108-95-2	
2,4,6-Trichlorophenol	**0.71U**	ug/L	2.1	0.71	1	02/18/12 08:30	02/19/12 16:44	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	42	%	37.3-107.7		1	02/18/12 08:30	02/19/12 16:44	4165-60-0	
2-Fluorobiphenyl (S)	44	%	35.3-102.4		1	02/18/12 08:30	02/19/12 16:44	321-60-8	
Terphenyl-d14 (S)	82	%	50.1-115.1		1	02/18/12 08:30	02/19/12 16:44	1718-51-0	
Phenol-d6 (S)	13	%	10-47.1		1	02/18/12 08:30	02/19/12 16:44	13127-88-3	
2-Fluorophenol (S)	22	%	16.3-59.8		1	02/18/12 08:30	02/19/12 16:44	367-12-4	
2,4,6-Tribromophenol (S)	65	%	54.2-114.4		1	02/18/12 08:30	02/19/12 16:44	118-79-6	
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	71-43-2	
Bromodichloromethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	75-27-4	
Bromoform	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	75-25-2	L3
Carbon tetrachloride	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	56-23-5	
Chlorobenzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	108-90-7	
Chloroethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	75-00-3	
Chloroform	**0.84**	ug/L	0.50	0.25	1		02/21/12 14:59	67-66-3	
Dibromochloromethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	124-48-1	
1,2-Dichlorobenzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	95-50-1	
1,4-Dichlorobenzene	**0.98**	ug/L	0.50	0.25	1		02/21/12 14:59	106-46-7	
1,2-Dichloroethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	107-06-2	
1,1-Dichloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	75-35-4	L3
cis-1,2-Dichloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	156-59-2	
trans-1,2-Dichloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	156-60-5	
1,2-Dichloropropane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	78-87-5	
Ethylbenzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	100-41-4	
Methylene Chloride	**0.44U**	ug/L	0.50	0.44	1		02/21/12 14:59	75-09-2	L3
Styrene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	100-42-5	
Tetrachloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	127-18-4	
Toluene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	108-88-3	
Total Trihalomethanes (Calc.)	**0.84**	ug/L	0.50	0.25	1		02/21/12 14:59		

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD HLD EFFLUENT **Lab ID: 3550282002** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
1,2,4-Trichlorobenzene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	120-82-1	
1,1,1-Trichloroethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	71-55-6	
1,1,2-Trichloroethane	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	79-00-5	
Trichloroethene	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	79-01-6	
Vinyl chloride	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	75-01-4	L3
Xylene (Total)	**0.25U**	ug/L	0.50	0.25	1		02/21/12 14:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		02/21/12 14:59	460-00-4	
Dibromofluoromethane (S)	125	%	70-130		1		02/21/12 14:59	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		02/21/12 14:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		02/21/12 14:59	17060-07-0	
2120B True Color	Analytical Method: SM 2120B								
True Color	**30.0**	units	5.0	5.0	1		02/17/12 20:50		Q
2150B Threshold Odor Number	Analytical Method: SM 2150B								
Temperature, Water (C)	**40.0**	deg C			1		02/17/12 19:15		
Threshold Odor Number	**40.0**	TON	1.0	1.0	1		02/17/12 19:15		Q
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**334**	mg/L	5.0	5.0	1		02/20/12 14:56		
300.0 IC Anions DW	Analytical Method: EPA 300.0								
Nitrate as N	**0.17**	mg/L	0.050	0.025	1		02/17/12 22:19	14797-55-8	Q
Nitrite as N	**1.3**	mg/L	0.050	0.025	1		02/17/12 22:19	14797-65-0	Q
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
Temperature, Water (C)	**25.0**	deg C	0.010	0.010	1		02/29/12 12:10		
pH at 25 Degrees C	**7.8**	Std. Units	0.10	0.10	1		02/29/12 12:10		Q
5540C MBAS Surfactants	Analytical Method: SM 5540C								
Surfactants	**0.11 I**	mg/L	0.20	0.059	1		02/17/12 13:40		Q
9222B Total Coliform MF	Analytical Method: SM 9222B Preparation Method: SM 9222B								
Total Coliforms	**4000**	CFU/100 mL	20.0	20.0	20	02/17/12 15:00	02/18/12 15:10		Q,Z
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**16.5**	mg/L	0.50	0.25	1		02/21/12 15:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**68.3**	mg/L	5.0	2.5	1		02/23/12 05:34	16887-00-6	
Fluoride	**0.30**	mg/L	0.050	0.025	1		02/23/12 05:34	16984-48-8	
Sulfate	**21.4**	mg/L	5.0	2.5	1		02/23/12 05:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD HLD EFFLUENT **Lab ID: 3550282002** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.0050U**	mg/L	0.010	0.0050	1	02/22/12 08:50	02/23/12 05:36	57-12-5	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**14.7**	mg/L	0.10	0.040	2		02/21/12 12:43	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**15.7**	mg/L	0.50	0.086	1	02/20/12 09:00	02/21/12 11:14	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.79**	mg/L	0.050	0.010	1		02/20/12 12:57		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**1.8**	mg/L	0.10	0.050	1	02/20/12 09:00	02/21/12 11:14	7723-14-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: GCSV/5395 Analysis Method: EPA 531.1
QC Batch Method: EPA 531.1 Analysis Description: 531.1 HPLC Carbamate
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342247 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aldicarb	ug/L	0.64U	2.0	02/21/12 23:20	
Aldicarb sulfone	ug/L	0.35U	2.0	02/21/12 23:20	
Aldicarb sulfoxide	ug/L	0.30U	2.0	02/21/12 23:20	
Carbofuran	ug/L	0.32U	2.0	02/21/12 23:20	
Oxamyl	ug/L	0.41U	2.0	02/21/12 23:20	
Propoxur (S)	%	147	80-120	02/21/12 23:20	

LABORATORY CONTROL SAMPLE: 342248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldicarb	ug/L	10	9.4	94	80-120	
Aldicarb sulfone	ug/L	10	11.1	111	80-120	
Aldicarb sulfoxide	ug/L	10	10.5	105	80-120	
Carbofuran	ug/L	10	9.0	90	80-120	
Oxamyl	ug/L	10	12.3	123	80-120	
Propoxur (S)	%			90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 342249 342250

Parameter	Units	3549852001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldicarb	ug/L	0.00064 U mg/L	10	10	10.8	11.1	108	111	80-120	3	20	
Aldicarb sulfone	ug/L	0.00035 U mg/L	10	10	12.6	13.0	126	130	80-120	3	20	
Aldicarb sulfoxide	ug/L	0.00030 U mg/L	10	10	12.2	12.6	122	126	80-120	3	20	
Carbofuran	ug/L	0.00032 U mg/L	10	10	13.7	14.2	137	142	80-120	4	20	
Oxamyl	ug/L	0.00041 U mg/L	10	10	13.6	13.9	136	139	80-120	2	20	
Propoxur (S)	%						136	143	80-120			

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: GCSV/5408
QC Batch Method: EPA 547
Analysis Method: EPA 547
Analysis Description: 547 HPLC Glyphosate
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343158
Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	2.1U	6.0	02/20/12 09:21	

LABORATORY CONTROL SAMPLE: 343159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	46.0	92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343160 343161

Parameter	Units	3550282001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	ug/L	2.1U	50	50	45.5	42.8	91	86	70-130	6	30	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: MERP/2502 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342943 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	0.00010U	0.00020	02/24/12 13:47	

LABORATORY CONTROL SAMPLE: 342944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.002	0.0020	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 342945 342946

Parameter	Units	3550307001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.10U ug/L	.002	.002	0.0020	0.0020	98	98	70-130	.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 342947 342948

Parameter	Units	3550307002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.10U ug/L	.002	.002	0.0022	0.0022	109	108	70-130	.3	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: MPRP/7499
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343205 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/L	0.050U	0.10	02/21/12 05:38	
Cadmium	mg/L	0.00050U	0.0010	02/21/12 05:38	
Chromium	mg/L	0.0025U	0.0050	02/21/12 05:38	
Iron	mg/L	0.020U	0.040	02/21/12 05:38	
Nickel	mg/L	0.0025U	0.0050	02/21/12 05:38	
Silver	mg/L	0.0025U	0.0050	02/21/12 05:38	
Sodium	mg/L	0.50U	1.0	02/21/12 05:38	
Zinc	mg/L	0.010U	0.020	02/21/12 05:38	

LABORATORY CONTROL SAMPLE: 343206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	2.5	2.6	102	85-115	
Cadmium	mg/L	.025	0.026	103	85-115	
Chromium	mg/L	.25	0.26	106	85-115	
Iron	mg/L	2.5	2.6	105	85-115	
Nickel	mg/L	.25	0.26	103	85-115	
Silver	mg/L	.025	0.025	102	85-115	
Sodium	mg/L	12.5	13.1	105	85-115	
Zinc	mg/L	1.2	1.3	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343207 343208

Parameter	Units	3550252001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	196 ug/L	2.5	2.5	2.8	2.8	103	104	70-130	.7	20	
Cadmium	mg/L	0.50U ug/L	.025	.025	0.026	0.026	103	103	70-130	.3	20	
Chromium	mg/L	2.5U ug/L	.25	.25	0.27	0.27	106	106	70-130	.1	20	
Iron	mg/L	220 ug/L	2.5	2.5	2.8	2.8	104	105	70-130	1	20	
Nickel	mg/L	3.5 I ug/L	.25	.25	0.26	0.26	104	103	70-130	.4	20	
Silver	mg/L	2.5U ug/L	.025	.025	0.028	0.026	110	102	70-130	7	20	
Sodium	mg/L	61100 ug/L	12.5	12.5	74.6	76.7	108	125	70-130	3	20	
Zinc	mg/L	313 ug/L	1.2	1.2	1.6	1.6	103	103	70-130	.06	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343209 343210

Parameter	Units	3550290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	50.2 I ug/L	2.5	2.5	2.6	2.6	101	102	70-130	.9	20	
Cadmium	mg/L	0.50U ug/L	.025	.025	0.026	0.025	102	102	70-130	.9	20	
Chromium	mg/L	2.5U ug/L	.25	.25	0.27	0.26	107	105	70-130	1	20	
Iron	mg/L	171 ug/L	2.5	2.5	2.7	2.8	102	104	70-130	2	20	
Nickel	mg/L	2.5U ug/L	.25	.25	0.26	0.26	103	103	70-130	.6	20	
Silver	mg/L	2.5U ug/L	.025	.025	0.027	0.026	108	104	70-130	4	20	
Sodium	mg/L	48200 ug/L	12.5	12.5	59.8	61.6	93	107	70-130	3	20	
Zinc	mg/L	10.4 I ug/L	1.2	1.2	1.3	1.3	103	103	70-130	.8	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: MPRP/7500 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343213 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	0.00050U	0.0010	02/22/12 12:41	
Arsenic	mg/L	0.00050U	0.0010	02/23/12 13:25	
Barium	mg/L	0.00050U	0.0010	02/22/12 12:41	
Beryllium	mg/L	0.000050U	0.00010	02/22/12 12:41	
Copper	mg/L	0.00093U	0.0010	02/23/12 13:25	
Lead	mg/L	0.00050U	0.0010	02/22/12 12:41	
Manganese	mg/L	0.00069U	0.0010	02/23/12 13:25	
Selenium	mg/L	0.00050U	0.0010	02/23/12 13:25	
Thallium	mg/L	0.00050U	0.0010	02/22/12 12:41	

LABORATORY CONTROL SAMPLE: 343214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.05	0.046	92	85-115	
Arsenic	mg/L	.05	0.052	103	85-115	
Barium	mg/L	.05	0.048	96	85-115	
Beryllium	mg/L	.005	0.0051	102	85-115	
Copper	mg/L	.05	0.052	104	85-115	
Lead	mg/L	.05	0.047	94	85-115	
Manganese	mg/L	.05	0.051	102	85-115	
Selenium	mg/L	.05	0.054	107	85-115	
Thallium	mg/L	.05	0.048	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343215 343216

Parameter	Units	3550307001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.50U ug/L	.05	.05	0.045	0.045	90	90	70-130	.04	20	
Arsenic	mg/L	0.50U ug/L	.05	.05	0.048	0.049	95	97	70-130	2	20	
Barium	mg/L	54.4 ug/L	.05	.05	0.10	0.10	96	97	70-130	.6	20	
Beryllium	mg/L	0.050U ug/L	.005	.005	0.0043	0.0043	86	85	70-130	.4	20	
Copper	mg/L	2.7 ug/L	.05	.05	0.047	0.048	88	91	70-130	3	20	
Lead	mg/L	2.0 ug/L	.05	.05	0.051	0.051	97	98	70-130	.5	20	
Manganese	mg/L	22.4 ug/L	.05	.05	0.069	0.070	94	96	70-130	2	20	
Selenium	mg/L	0.50U ug/L	.05	.05	0.047	0.047	93	94	70-130	.7	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343215 343216

Parameter	Units	3550307001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	mg/L	0.50U ug/L	.05	.05	0.051	0.052	102	104	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343217 343218

Parameter	Units	3550290002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.50U ug/L	.05	.05	0.046	0.046	92	92	70-130	.2	20	
Arsenic	mg/L	1.3 ug/L	.05	.05	0.052	0.051	102	100	70-130	2	20	
Barium	mg/L	18.4 ug/L	.05	.05	0.069	0.068	101	99	70-130	2	20	
Beryllium	mg/L	0.050U ug/L	.005	.005	0.0048	0.0050	96	100	70-130	4	20	
Copper	mg/L	23.1 ug/L	.05	.05	0.075	0.070	103	95	70-130	6	20	
Lead	mg/L	0.84 I ug/L	.05	.05	0.044	0.044	86	86	70-130	.3	20	
Manganese	mg/L	13.5 ug/L	.05	.05	0.066	0.064	105	101	70-130	3	20	
Selenium	mg/L	0.55 I ug/L	.05	.05	0.056	0.054	111	107	70-130	4	20	
Thallium	mg/L	0.50U ug/L	.05	.05	0.045	0.045	89	90	70-130	1	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: MSV/4837
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343954
Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.25U	0.50	02/21/12 13:39	
1,1,2-Trichloroethane	ug/L	0.25U	0.50	02/21/12 13:39	
1,1-Dichloroethene	ug/L	0.25U	0.50	02/21/12 13:39	
1,2,4-Trichlorobenzene	ug/L	0.25U	0.50	02/21/12 13:39	
1,2-Dichlorobenzene	ug/L	0.25U	0.50	02/21/12 13:39	
1,2-Dichloroethane	ug/L	0.25U	0.50	02/21/12 13:39	
1,2-Dichloropropane	ug/L	0.25U	0.50	02/21/12 13:39	
1,4-Dichlorobenzene	ug/L	0.25U	0.50	02/21/12 13:39	
Benzene	ug/L	0.25U	0.50	02/21/12 13:39	
Bromodichloromethane	ug/L	0.25U	0.50	02/21/12 13:39	
Bromoform	ug/L	0.25U	0.50	02/21/12 13:39	
Carbon tetrachloride	ug/L	0.25U	0.50	02/21/12 13:39	
Chlorobenzene	ug/L	0.25U	0.50	02/21/12 13:39	
Chloroethane	ug/L	0.25U	0.50	02/21/12 13:39	
Chloroform	ug/L	0.25U	0.50	02/21/12 13:39	
cis-1,2-Dichloroethene	ug/L	0.25U	0.50	02/21/12 13:39	
Dibromochloromethane	ug/L	0.25U	0.50	02/21/12 13:39	
Ethylbenzene	ug/L	0.25U	0.50	02/21/12 13:39	
Methylene Chloride	ug/L	0.44U	0.50	02/21/12 13:39	
Styrene	ug/L	0.25U	0.50	02/21/12 13:39	
Tetrachloroethene	ug/L	0.25U	0.50	02/21/12 13:39	
Toluene	ug/L	0.25U	0.50	02/21/12 13:39	
Total Trihalomethanes (Calc.)	ug/L	0.25U	0.50	02/21/12 13:39	
trans-1,2-Dichloroethene	ug/L	0.25U	0.50	02/21/12 13:39	
Trichloroethene	ug/L	0.25U	0.50	02/21/12 13:39	
Vinyl chloride	ug/L	0.25U	0.50	02/21/12 13:39	
Xylene (Total)	ug/L	0.25U	0.50	02/21/12 13:39	
1,2-Dichloroethane-d4 (S)	%	115	70-130	02/21/12 13:39	
4-Bromofluorobenzene (S)	%	122	70-130	02/21/12 13:39	
Dibromofluoromethane (S)	%	119	70-130	02/21/12 13:39	
Toluene-d8 (S)	%	104	70-130	02/21/12 13:39	

LABORATORY CONTROL SAMPLE & LCSD: 343955 343956

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	5	4.8	4.9	96	97	70-130	1	40	
1,1,2-Trichloroethane	ug/L	5	4.7	5.4	95	109	70-130	14	40	
1,1-Dichloroethene	ug/L	5	6.5	6.4	131	128	70-130	2	40	J(L0)
1,2,4-Trichlorobenzene	ug/L	5	5.4	5.4	107	108	70-130	1	40	
1,2-Dichlorobenzene	ug/L	5	4.6	5.1	92	103	70-130	11	40	
1,2-Dichloroethane	ug/L	5	5.1	5.2	103	104	70-130	1	40	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

LABORATORY CONTROL SAMPLE & LCSD: 343955 343956

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	5	4.2	3.8	84	77	70-130	10	40	
1,4-Dichlorobenzene	ug/L	5	4.9	5.1	98	101	70-130	3	40	
Benzene	ug/L	5	4.9	5.0	97	99	70-130	2	40	
Bromodichloromethane	ug/L	5	4.2	3.9	85	79	70-130	7	40	
Bromoform	ug/L	5	5.2	7.0	104	139	70-130	29	40	J(L0)
Carbon tetrachloride	ug/L	5	5.0	5.4	100	108	70-130	8	40	
Chlorobenzene	ug/L	5	4.4	4.3	89	86	70-130	3	40	
Chloroethane	ug/L	5	6.2	6.1	124	123	70-130	2	40	
Chloroform	ug/L	5	5.6	5.1	112	102	70-130	9	40	
cis-1,2-Dichloroethene	ug/L	5	5.6	5.6	113	112	70-130	.7	40	
Dibromochloromethane	ug/L	5	4.8	5.4	97	109	70-130	12	40	
Ethylbenzene	ug/L	5	5.1	5.5	103	111	70-130	7	40	
Methylene Chloride	ug/L	5	7.4	5.7	148	115	70-130	25	40	J(L0)
Styrene	ug/L	5	5.3	6.1	106	123	70-130	15	40	
Tetrachloroethene	ug/L	5	4.7	4.6	94	92	70-130	2	40	
Toluene	ug/L	5	4.5	4.5	89	90	70-130	.9	40	
Total Trihalomethanes (Calc.)	ug/L		19.9	21.5				8		
trans-1,2-Dichloroethene	ug/L	5	5.3	6.2	106	124	70-130	15	40	
Trichloroethene	ug/L	5	3.7	4.4	74	88	70-130	17	40	
Vinyl chloride	ug/L	5	7.1	7.2	143	144	70-130	.9	40	J(L0)
Xylene (Total)	ug/L		16.7	18.6				11		
1,2-Dichloroethane-d4 (S)	%				126	121	70-130			
4-Bromofluorobenzene (S)	%				107	119	70-130			
Dibromofluoromethane (S)	%				127	121	70-130			
Toluene-d8 (S)	%				103	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343994 343995

Parameter	Units	60115522001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	5	5	5.3	4.2	106	83	70-130	24	40	
1,1,2-Trichloroethane	ug/L	ND	5	5	6.2	3.4	124	68	70-130	59	40	J(D6), J(M1)
1,1-Dichloroethene	ug/L	ND	5	5	8.1	7.8	163	156	70-130	4	40	J(M0)
1,2,4-Trichlorobenzene	ug/L	ND	5	5	6.2	4.7	124	95	70-130	27	40	
1,2-Dichlorobenzene	ug/L	ND	5	5	4.7	4.3	94	86	70-130	9	40	
1,2-Dichloroethane	ug/L	ND	5	5	5.3	4.9	106	98	70-130	8	40	
1,2-Dichloropropane	ug/L	ND	5	5	5.7	3.6	114	71	70-130	46	40	J(D6)
1,4-Dichlorobenzene	ug/L	ND	5	5	4.9	4.5	97	91	70-130	7	40	
Benzene	ug/L	ND	5	5	5.3	4.5	106	90	70-130	16	40	
Bromodichloromethane	ug/L	ND	5	5	5.4	3.5	109	70	70-130	44	40	J(D6)
Bromoform	ug/L	ND	5	5	4.4	3.9	88	77	70-130	13	40	
Carbon tetrachloride	ug/L	ND	5	5	6.1	5.2	123	105	70-130	16	40	
Chlorobenzene	ug/L	ND	5	5	4.9	4.1	98	81	70-130	19	40	
Chloroethane	ug/L	ND	5	5	9.3	8.7	185	174	70-130	7	40	J(M1)
Chloroform	ug/L	ND	5	5	4.9	5.7	99	114	70-130	15	40	
cis-1,2-Dichloroethene	ug/L	ND	5	5	6.0	5.0	120	100	70-130	18	40	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343994 343995

Parameter	Units	60115522001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromochloromethane	ug/L	ND	5	5	5.5	4.0	109	81	70-130	30	40	
Ethylbenzene	ug/L	ND	5	5	5.1	5.7	102	113	70-130	11	40	
Methylene Chloride	ug/L	ND	5	5	7.9	7.6	158	152	70-130	4	40	J(M0)
Styrene	ug/L	ND	5	5	4.8	5.8	96	116	70-130	19	40	
Tetrachloroethene	ug/L	ND	5	5	5.0	3.3	99	66	70-130	41	40	J(D6), J(M1)
Toluene	ug/L	ND	5	5	4.7	3.6	95	71	70-130	28	40	
Total Trihalomethanes (Calc.)	ug/L	ND			20.2	17.1				17		
trans-1,2-Dichloroethene	ug/L	ND	5	5	6.1	5.9	122	119	70-130	2	40	
Trichloroethene	ug/L	ND	5	5	4.2	3.0	85	59	70-130	36	40	J(M1)
Vinyl chloride	ug/L	ND	5	5	8.9	10.2	178	204	70-130	14	40	J(M0)
Xylene (Total)	ug/L	ND			15.0	17.1				13		
1,2-Dichloroethane-d4 (S)	%						137	111	70-130			J(S0)
4-Bromofluorobenzene (S)	%						97	130	70-130			
Dibromofluoromethane (S)	%						128	120	70-130			
Toluene-d8 (S)	%						101	82	70-130			

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: OEXT/7535 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342838 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0049U	0.020	02/20/12 20:25	
1,2-Dibromoethane (EDB)	ug/L	0.0062U	0.010	02/20/12 20:25	

LABORATORY CONTROL SAMPLE & LCSD: 342839 343322

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	0.24	0.24	94	95	70-130	1	40	
1,2-Dibromoethane (EDB)	ug/L	.25	0.24	0.25	95	101	70-130	6	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343323 343324

Parameter	Units	3550282001 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	0.0049 U	.44	.44	0.64	0.54	145	122	65-135	17	40	J(M1)
1,2-Dibromoethane (EDB)	ug/L	0.0062 U	.44	.44	0.62	0.57	141	131	65-135	8	40	J(M1)

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: OEXT/7532 Analysis Method: EPA 508.1
QC Batch Method: EPA 508.1 Analysis Description: 508 GCS Pesticide
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342832 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	ug/L	0.034U	0.20	02/21/12 15:11	
Atrazine	ug/L	0.021U	0.10	02/21/12 15:11	
Chlordane (Technical)	ug/L	0.047U	0.20	02/21/12 15:11	
Dieldrin	ug/L	0.014U	0.10	02/21/12 15:11	
Endrin	ug/L	0.0020U	0.010	02/21/12 15:11	
gamma-BHC (Lindane)	ug/L	0.0030U	0.020	02/21/12 15:11	
Heptachlor	ug/L	0.0060U	0.040	02/21/12 15:11	
Heptachlor epoxide	ug/L	0.0030U	0.020	02/21/12 15:11	
Hexachlorobenzene	ug/L	0.011U	0.10	02/21/12 15:11	
Hexachlorocyclopentadiene	ug/L	0.012U	0.10	02/21/12 15:11	
Methoxychlor	ug/L	0.014U	0.10	02/21/12 15:11	
PCB, Total	ug/L	0.10U	0.10	02/21/12 15:11	
PCB-1016 (Aroclor 1016)	ug/L	0.080U	0.10	02/21/12 15:11	
PCB-1221 (Aroclor 1221)	ug/L	0.029U	0.10	02/21/12 15:11	
PCB-1232 (Aroclor 1232)	ug/L	0.029U	0.10	02/21/12 15:11	
PCB-1242 (Aroclor 1242)	ug/L	0.051U	0.10	02/21/12 15:11	
PCB-1248 (Aroclor 1248)	ug/L	0.062U	0.10	02/21/12 15:11	
PCB-1254 (Aroclor 1254)	ug/L	0.023U	0.10	02/21/12 15:11	
PCB-1260 (Aroclor 1260)	ug/L	0.066U	0.10	02/21/12 15:11	
Simazine	ug/L	0.044U	0.070	02/21/12 15:11	
Toxaphene	ug/L	0.61U	1.0	02/21/12 15:11	
Decachlorobiphenyl (S)	%	87	70-130	02/21/12 15:11	

LABORATORY CONTROL SAMPLE: 342833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	1	0.72	72	70-130	
Atrazine	ug/L	.5	0.37	73	70-130	
Dieldrin	ug/L	.5	0.48	97	70-130	
Endrin	ug/L	.05	0.051	101	70-130	
gamma-BHC (Lindane)	ug/L	.1	0.091	91	70-130	
Heptachlor	ug/L	.2	0.17	85	70-130	
Heptachlor epoxide	ug/L	.1	0.071	71	70-130	
Hexachlorobenzene	ug/L	.5	0.50	100	70-130	
Hexachlorocyclopentadiene	ug/L	.5	0.44	87	70-130	
Methoxychlor	ug/L	.5	0.52	103	70-130	
Simazine	ug/L	.35	0.39	112	70-130	
Decachlorobiphenyl (S)	%			109	70-130	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343334 343335

Parameter	Units	92112145001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alachlor	ug/L	ND	2	2	1.4	1.5	68	75	70-130	11	40	J(M1)
Atrazine	ug/L	ND	1	1	0.70	0.85	70	85	70-130	20	40	
Dieldrin	ug/L	ND	1	1	0.94	1.0	94	105	70-130	11	40	
Endrin	ug/L	ND	.1	.1	0.12	0.14	119	140	70-130	16	40	J(M1)
gamma-BHC (Lindane)	ug/L	ND	.2	.2	0.16	0.17	79	87	70-130	10	40	
Heptachlor	ug/L	ND	.4	.4	0.29	0.33	72	82	70-130	13	40	
Heptachlor epoxide	ug/L	ND	.2	.2	0.18	0.20	90	102	70-130	12	40	
Hexachlorobenzene	ug/L	ND	1	1	0.90	0.84	90	84	70-130	7	40	
Hexachlorocyclopentadiene	ug/L	ND	1	1	0.76	0.68	76	68	70-130	10	40	J(M1)
Methoxychlor	ug/L	ND	1	1	0.93	0.79	93	79	70-130	16	40	
Simazine	ug/L	ND	.7	.7	0.60	0.74	86	106	70-130	20	40	
Decachlorobiphenyl (S)	%						96	113	70-130		40	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: OEXT/7533 Analysis Method: EPA 515.3
QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342834 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	0.035U	0.20	02/20/12 23:46	
2,4-D	ug/L	0.017U	0.10	02/20/12 23:46	
Dalapon	ug/L	0.38U	1.0	02/20/12 23:46	
Dinoseb	ug/L	0.050U	0.20	02/20/12 23:46	
Pentachlorophenol	ug/L	0.0090U	0.040	02/20/12 23:46	
Picloram	ug/L	0.050U	0.10	02/20/12 23:46	
2,4-DCAA (S)	%	129	70-130	02/20/12 23:46	

LABORATORY CONTROL SAMPLE: 342835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	1	1.2	122	70-130	
2,4-D	ug/L	.5	0.56	112	70-130	
Dalapon	ug/L	5	6.6	133	70-130	J(L0)
Dinoseb	ug/L	1	1.3	134	70-130	J(L0)
Pentachlorophenol	ug/L	.2	0.21	106	70-130	
Picloram	ug/L	.5	0.51	102	70-130	
2,4-DCAA (S)	%			130	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343156 343157

Parameter	Units	3550223001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	ug/L	ND	1	1	1.2	1.3	123	131	70-130	6	40	J(M1)
2,4-D	ug/L	ND	.5	.5	0.62	0.63	124	127	70-130	2	40	
Dalapon	ug/L	ND	5	5	6.8	6.8	136	136	70-130	.2	40	J(M0)
Dinoseb	ug/L	ND	1	1	1.2	1.3	119	125	70-130	5	40	
Pentachlorophenol	ug/L	ND	.2	.2	0.22	0.23	110	117	70-130	6	40	
Picloram	ug/L	ND	.5	.5	0.73	0.65	147	130	70-130	12	40	J(M1)
2,4-DCAA (S)	%						121	130	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343247 343248

Parameter	Units	92112145001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	ug/L	ND	1	1	1.0	1.2	105	116	70-130	10	40	
2,4-D	ug/L	ND	.5	.5	0.46	0.50	91	100	70-130	9	40	
Dalapon	ug/L	ND	5	5	4.3	5.1	87	102	70-130	16	40	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343247 343248

Parameter	Units	92112145001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dinoseb	ug/L	ND	1	1	1.1	1.2	107	119	70-130	11	40	
Pentachlorophenol	ug/L	ND	.2	.2	0.23	0.25	113	124	70-130	9	40	
Picloram	ug/L	ND	.5	.5	0.52	0.71	103	141	70-130	31	40	J(M1)
2,4-DCAA (S)	%						119	127	70-130			

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: OEXT/7534
QC Batch Method: EPA 525.2
Analysis Method: EPA 525.2
Analysis Description: 525.2 Base Neutral Extractables
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342836 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(a)pyrene	ug/L	0.019U	0.10	02/21/12 10:51	
bis(2-Ethylhexyl)adipate	ug/L	0.38U	1.6	02/21/12 10:51	
bis(2-Ethylhexyl)phthalate	ug/L	0.50U	2.0	02/21/12 10:51	
1,3-Dimethyl-2-nitrobenzene(S)	%	118	70-130	02/21/12 10:51	
Perylene-d12 (S)	%	105	70-130	02/21/12 10:51	
Triphenylphosphate (S)	%	95	70-130	02/21/12 10:51	

LABORATORY CONTROL SAMPLE: 342837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)pyrene	ug/L	.4	0.71	176	70-130	J(L0)
bis(2-Ethylhexyl)adipate	ug/L	6.4	7.2	113	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	8	8.5	107	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			90	70-130	
Perylene-d12 (S)	%			103	70-130	
Triphenylphosphate (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343170 343171

Parameter	Units	92112145001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzo(a)pyrene	ug/L	ND	.8	.8	1.2	1.2	148	153	70-130	3	40	J(M0)
bis(2-Ethylhexyl)adipate	ug/L	ND	12.8	12.8	14.8	15.6	116	122	70-130	5	40	
bis(2-Ethylhexyl)phthalate	ug/L	ND	16	16	17.5	18.9	109	118	70-130	8	40	
1,3-Dimethyl-2-nitrobenzene(S)	%						97	92	70-130			
Perylene-d12 (S)	%						102	103	70-130			
Triphenylphosphate (S)	%						95	99	70-130			

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: OEXT/7542 Analysis Method: EPA 548.1
QC Batch Method: EPA 548.1 Analysis Description: 548 GCS Endothall
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343233 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Endothall	ug/L	2.7U	9.0	02/21/12 11:53	

LABORATORY CONTROL SAMPLE: 343234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endothall	ug/L	50	48.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343511 343512

Parameter	Units	3550110002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Endothall	ug/L	2.7U	50	50	7.7 I	6.7 I	15	13	80-120		40	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343513 343514

Parameter	Units	3550153001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Endothall	ug/L	2.7U	50	50	15.7	16.8	31	34	80-120	7	40	J(M1)

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: OEXT/7552
QC Batch Method: EPA 549.2
Analysis Method: EPA 549.2
Analysis Description: 549 GCS Paraquat Diquat
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343800 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diquat	ug/L	0.15U	0.40	02/22/12 09:33	

LABORATORY CONTROL SAMPLE: 343801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	2.0	102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344049 344050

Parameter	Units	3550110002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diquat	ug/L	0.15U	2	2	2.2	2.4	108	118	70-130	8	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344051 344052

Parameter	Units	3550120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diquat	ug/L	0.15U	2	2	2.3	2.3	115	114	70-130	1	40	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: OEXT/7530 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342816 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,6-Trichlorophenol	ug/L	0.69U	2.0	02/19/12 14:21	
2-Chlorophenol	ug/L	0.68U	5.0	02/19/12 14:21	
Anthracene	ug/L	0.60U	5.0	02/19/12 14:21	
Butylbenzylphthalate	ug/L	0.72U	5.0	02/19/12 14:21	
Dimethylphthalate	ug/L	0.64U	5.0	02/19/12 14:21	
Dioxin Screen	ug/L	10.0U	10.0	02/19/12 14:21	N2
Naphthalene	ug/L	0.78U	5.0	02/19/12 14:21	
Phenanthrene	ug/L	0.52U	5.0	02/19/12 14:21	
Phenol	ug/L	0.54U	5.0	02/19/12 14:21	
2,4,6-Tribromophenol (S)	%	82	54.2-114.4	02/19/12 14:21	
2-Fluorobiphenyl (S)	%	80	35.3-102.4	02/19/12 14:21	
2-Fluorophenol (S)	%	34	18.3-59.8	02/19/12 14:21	
Nitrobenzene-d5 (S)	%	72	37.3-107.7	02/19/12 14:21	
Phenol-d6 (S)	%	20	10-47.1	02/19/12 14:21	
Terphenyl-d14 (S)	%	103	50.1-115.1	02/19/12 14:21	

LABORATORY CONTROL SAMPLE: 342817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	50	38.9	78	37-144	
2-Chlorophenol	ug/L	50	24.2	48	23-134	
Anthracene	ug/L	50	42.5	85	27-133	
Butylbenzylphthalate	ug/L	50	47.3	95	0-152	
Dimethylphthalate	ug/L	50	39.8	80	10-112	
Dioxin Screen	ug/L		10.0U			N2
Naphthalene	ug/L	50	29.9	60	21-133	
Phenanthrene	ug/L	50	42.4	85	54-120	
Phenol	ug/L	50	9.5	19	10-112	
2,4,6-Tribromophenol (S)	%			83	54.2-114.4	
2-Fluorobiphenyl (S)	%			73	35.3-102.4	
2-Fluorophenol (S)	%			27	16.3-59.8	
Nitrobenzene-d5 (S)	%			62	37.3-107.7	
Phenol-d6 (S)	%			18	10-47.1	
Terphenyl-d14 (S)	%			101	50.1-115.1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343118 343119

Parameter	Units	3550204015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,6-Trichlorophenol	ug/L	0.65U	100	83.3	81.7	66.4	82	80	37-144	21	40	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343118 343119

Parameter	Units	3550204015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chlorophenol	ug/L	0.64U	100	83.3	56.8	42.7	57	51	23-134	28	40	
Anthracene	ug/L	0.57U	100	83.3	83.3	67.0	83	80	27-133	22	40	
Butylbenzylphthalate	ug/L	0.68U	100	83.3	91.9	78.3	92	94	0-152	16	40	
Dimethylphthalate	ug/L	0.61U	100	83.3	79.8	65.3	80	78	10-112	20	40	
Naphthalene	ug/L	0.74U	100	83.3	83.0	64.5	83	77	21-133	25	40	
Phenanthrene	ug/L	0.49U	100	83.3	86.0	72.5	86	87	54-120	17	40	
Phenol	ug/L	0.51U	100	83.3	32.7	22.3	33	27	10-112	38	40	
2,4,6-Tribromophenol (S)	%						81	84	54.2-114			
2-Fluorobiphenyl (S)	%						77	77	35.3-102			
2-Fluorophenol (S)	%						42	36	16.3-59.			
Nitrobenzene-d5 (S)	%						65	62	37.3-107			
Phenol-d6 (S)	%						34	29	10-47.1			
Terphenyl-d14 (S)	%						88	97	50.1-115			

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: OEXT/7538
QC Batch Method: EPA 3510
Analysis Method: EPA 8081
Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343114 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aldrin	ug/L	0.00050U	0.010	02/21/12 23:03	
Decachlorobiphenyl (S)	%	82	41.7-109.1	02/21/12 23:03	
Tetrachloro-m-xylene (S)	%	80	66.5-120.3	02/21/12 23:03	

LABORATORY CONTROL SAMPLE: 343115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldrin	ug/L	.5	0.40	80	42-122	
Decachlorobiphenyl (S)	%			70	41.7-109.1	
Tetrachloro-m-xylene (S)	%			78	66.5-120.3	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 342827 342828

Parameter	Units	3550204015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldrin	ug/L	0.00047 U	1	.83	0.81	0.66	81	79	42-122	21	40	
Decachlorobiphenyl (S)	%						89	83	41.7-109			
Tetrachloro-m-xylene (S)	%						78	80	66.5-120			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: SFL/3970
QC Batch Method: SM 2120B
Analysis Method: SM 2120B
Analysis Description: 2120B True Color
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342936 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
True Color	units	5.0U	5.0	02/17/12 20:50	

LABORATORY CONTROL SAMPLE: 342937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
True Color	units	30	30.0	100	90-110	

SAMPLE DUPLICATE: 342938

Parameter	Units	3550110002 Result	Dup Result	RPD	Max RPD	Qualifiers
True Color	units	400	400	0	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: SFL/3969 Analysis Method: SM 2150B
QC Batch Method: SM 2150B Analysis Description: Threshold Odor Number
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342934 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Temperature, Water (C)	deg C	40.0		02/17/12 19:15	
Threshold Odor Number	TON	1.0U	1.0	02/17/12 19:15	

SAMPLE DUPLICATE: 342935

Parameter	Units	3550222005 Result	Dup Result	RPD	Max RPD	Qualifiers
Temperature, Water (C)	deg C	40.0	40.0	0	20	
Threshold Odor Number	TON	ND	1.0U		20	Q

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: SFL/3985
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343325 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0U	5.0	02/20/12 14:43	

LABORATORY CONTROL SAMPLE: 343326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	313	104	90-110	

SAMPLE DUPLICATE: 343327

Parameter	Units	3549901001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0U		20	

SAMPLE DUPLICATE: 343328

Parameter	Units	3550269003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	12400	12100	3	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: SFL/3972 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions DW
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343055 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	0.025U	0.050	02/18/12 00:11	
Nitrite as N	mg/L	0.025U	0.050	02/18/12 00:11	

LABORATORY CONTROL SAMPLE: 343056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	5	4.5	90	90-110	
Nitrite as N	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343057 343058

Parameter	Units	3550269012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.50U	100	100	85.6	80.1	86	80	90-110	7	20	M6
Nitrite as N	mg/L	11.5	100	100	117	113	106	101	90-110	4	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: SFL/4091
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 3550282001, 3550282002

SAMPLE DUPLICATE: 346996

Parameter	Units	3550110002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	.3	20	Q
Temperature, Water (C)	deg C	25.0	25.0	0	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: SFL/3968
QC Batch Method: SM 5540C
Analysis Method: SM 5540C
Analysis Description: 5540C MBAS Surfactants
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 342930 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Surfactants	mg/L	0.059U	0.20	02/17/12 13:40	

LABORATORY CONTROL SAMPLE: 342931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Surfactants	mg/L	.3	0.27	90	90-110	

MATRIX SPIKE SAMPLE: 342933

Parameter	Units	3550181001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Surfactants	mg/L	<0.059	.3	0.30	99	80-120	

SAMPLE DUPLICATE: 342932

Parameter	Units	3550181001 Result	Dup Result	RPD	Max RPD	Qualifiers
Surfactants	mg/L	<0.059	0.059U		20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: SFL/4047
QC Batch Method: SM 9222B
Analysis Method: SM 9222B
Analysis Description: 9222B MBIO Total Coliforms
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 344589
Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Coliforms	CFU/100 mL	1.0U	1.0	02/18/12 15:10	

SAMPLE DUPLICATE: 344590

Parameter	Units	3550292001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Coliforms	CFU/100 mL	1300	1120	15		

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: WETA/15364 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 344963 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	2.5U	5.0	02/23/12 03:09	
Fluoride	mg/L	0.025U	0.050	02/23/12 03:09	
Sulfate	mg/L	2.5U	5.0	02/23/12 03:09	

LABORATORY CONTROL SAMPLE: 344964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	5	5.0	100	90-110	
Sulfate	mg/L	50	46.0	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344965 344966

Parameter	Units	3550206022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.9 I	50	50	51.4	51.3	97	97	90-110	.1	20	
Fluoride	mg/L	0.025U	5	5	4.9	5.0	99	99	90-110	.6	20	
Sulfate	mg/L	2.5U	50	50	44.6	44.6	89	89	90-110	.2	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344967 344968

Parameter	Units	3550351003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5 I	50	50	52.4	52.4	98	98	90-110	.04	20	
Fluoride	mg/L	0.16	5	5	5.0	5.0	96	97	90-110	1	20	
Sulfate	mg/L	2.5U	50	50	45.1	45.2	89	89	90-110	.3	20	J(M1)

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: WETA/15341
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 344446 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	0.0050U	0.010	02/23/12 05:31	

LABORATORY CONTROL SAMPLE: 344447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.05	0.048	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344448 344449

Parameter	Units	3550286003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0055 I	.05	.05	0.046	0.046	82	81	90-110	.4	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344450 344451

Parameter	Units	3550204006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.051	.05	.05	0.089	0.097	75	92	90-110	9	20	J(M1)

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: WETA/15314 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343741 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	0.050	02/21/12 10:44	

LABORATORY CONTROL SAMPLE: 343742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	104	90-110	

MATRIX SPIKE SAMPLE: 343744

Parameter	Units	3550008001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	1	1.0	102	90-110	

SAMPLE DUPLICATE: 343743

Parameter	Units	3550008001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	0.020U		20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: WETA/15305 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343299 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086U	0.50	02/21/12 10:58	

LABORATORY CONTROL SAMPLE: 343300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	20.4	102	90-110	

MATRIX SPIKE SAMPLE: 343302

Parameter	Units	3550282001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	16.9	20	39.5	113	90-110	J(M1)

SAMPLE DUPLICATE: 343301

Parameter	Units	3550282001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	16.9	17.4	3	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: WETA/15302
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343267 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.010U	0.050	02/20/12 12:43	

LABORATORY CONTROL SAMPLE: 343268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 343270

Parameter	Units	3550250005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.9	2	3.8	96	80-120	

MATRIX SPIKE SAMPLE: 343272

Parameter	Units	3550285004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.078	2	2.1	103	80-120	

SAMPLE DUPLICATE: 343269

Parameter	Units	3550250005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.9	1.9	.7	20	

SAMPLE DUPLICATE: 343271

Parameter	Units	3550285004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.078	0.075	3	20	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: WETA/15306
QC Batch Method: EPA 365.4
Analysis Method: EPA 365.4
Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 343307
Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050U	0.10	02/21/12 11:33	

LABORATORY CONTROL SAMPLE: 343308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	4.0	101	90-110	

MATRIX SPIKE SAMPLE: 343310

Parameter	Units	3550282001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	1.5	4	5.8	106	80-120	

SAMPLE DUPLICATE: 343309

Parameter	Units	3550282001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	1.5	1.6	3	20	

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD COMBINED EFFLUENT **Lab ID: 3550282001** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0m	**2.79U ± 0.962 (2.79)**	pCi/L	02/24/12 06:31	12587-46-1	
Radium-226	EPA 903.1	**0.995U ± 0.594 (0.995)**	pCi/L	02/27/12 14:33	13982-63-3	
Radium-228	EPA 904.0	**1.01U ± 0.526 (1.01)**	pCi/L	02/27/12 18:34	15262-20-1	

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ANALYTICAL RESULTS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Sample: SD HLD EFFLUENT **Lab ID: 3550282002** Collected: 02/15/12 00:00 Received: 02/17/12 13:07 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0m	**2.84U ± 1.51 (2.84)**	pCi/L	02/24/12 06:31	12587-46-1	
Radium-226	EPA 903.1	**0.927U ± 0.538 (0.927)**	pCi/L	02/27/12 15:13	13982-63-3	
Radium-228	EPA 904.0	**1.02U ± 0.578 (1.02)**	pCi/L	02/27/12 18:34	15262-20-1	

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: RADC/11147 Analysis Method: EPA 900.0m
QC Batch Method: EPA 900.0m Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 407946 Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Gross Alpha	-0.889 ± 0.348 (1.92)	pCi/L	02/24/12 06:31	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: RADC/11158
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 407961
Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	-0.292 ± 0.482 (0.973)	pCi/L	02/27/12 14:56	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

QC Batch: RADC/11159
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Associated Lab Samples: 3550282001, 3550282002

METHOD BLANK: 407962
Matrix: Water
Associated Lab Samples: 3550282001, 3550282002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	2.87 ± 0.780 (0.858)	pCi/L	02/27/12 12:42	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-PA	Pace Analytical Services - Greensburg
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.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(L0)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(S0)	Estimated Value. Surrogate recovery outside laboratory control limits.
J(S1)	Estimated Value. Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold TNI accreditation for this parameter.
Q	Sample held beyond the accepted holding time.
Q	Sample held beyond the accepted holding time. Analysis initiated more than 15 minutes after sample collection.
Q	Sample held beyond the accepted holding time. Sample was received outside EPA method holding time.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALIFIERS

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

ANALYTE QUALIFIERS

Z Too many colonies were present (TNTC); the numeric value represents the estimated colony counts from the highest dilution used in this test.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3550282001	SD COMBINED EFFLUENT	EPA 504.1	OEXT/7535	EPA 504.1	GCSV/5413
3550282002	SD HLD EFFLUENT	EPA 504.1	OEXT/7535	EPA 504.1	GCSV/5413
3550282001	SD COMBINED EFFLUENT	EPA 508.1	OEXT/7532	EPA 508.1	GCSV/5417
3550282002	SD HLD EFFLUENT	EPA 508.1	OEXT/7532	EPA 508.1	GCSV/5417
3550282001	SD COMBINED EFFLUENT	EPA 515.3	OEXT/7533	EPA 515.3	GCSV/5416
3550282002	SD HLD EFFLUENT	EPA 515.3	OEXT/7533	EPA 515.3	GCSV/5416
3550282001	SD COMBINED EFFLUENT	EPA 531.1	GCSV/5395		
3550282002	SD HLD EFFLUENT	EPA 531.1	GCSV/5395		
3550282001	SD COMBINED EFFLUENT	EPA 547	GCSV/5408		
3550282002	SD HLD EFFLUENT	EPA 547	GCSV/5408		
3550282001	SD COMBINED EFFLUENT	EPA 549.2	OEXT/7552	EPA 549.2	GCSV/5431
3550282002	SD HLD EFFLUENT	EPA 549.2	OEXT/7552	EPA 549.2	GCSV/5431
3550282001	SD COMBINED EFFLUENT	EPA 3510	OEXT/7538	EPA 8081	GCSV/5421
3550282002	SD HLD EFFLUENT	EPA 3510	OEXT/7538	EPA 8081	GCSV/5421
3550282001	SD COMBINED EFFLUENT	EPA 200.7	MPRP/7499	EPA 200.7	ICP/5088
3550282002	SD HLD EFFLUENT	EPA 200.7	MPRP/7499	EPA 200.7	ICP/5088
3550282001	SD COMBINED EFFLUENT	EPA 200.8	MPRP/7500	EPA 200.8	ICPM/3202
3550282002	SD HLD EFFLUENT	EPA 200.8	MPRP/7500	EPA 200.8	ICPM/3202
3550282001	SD COMBINED EFFLUENT	EPA 245.1	MERP/2502	EPA 245.1	MERC/2505
3550282002	SD HLD EFFLUENT	EPA 245.1	MERP/2502	EPA 245.1	MERC/2505
3550282001	SD COMBINED EFFLUENT	EPA 525.2	OEXT/7534	EPA 525.2	MSSV/3003
3550282002	SD HLD EFFLUENT	EPA 525.2	OEXT/7534	EPA 525.2	MSSV/3003
3550282001	SD COMBINED EFFLUENT	EPA 548.1	OEXT/7542	EPA 548.1	MSSV/3004
3550282002	SD HLD EFFLUENT	EPA 548.1	OEXT/7542	EPA 548.1	MSSV/3004
3550282001	SD COMBINED EFFLUENT	EPA 625	OEXT/7530	EPA 625	MSSV/3001
3550282002	SD HLD EFFLUENT	EPA 625	OEXT/7530	EPA 625	MSSV/3001
3550282001	SD COMBINED EFFLUENT	EPA 524.2	MSV/4837		
3550282002	SD HLD EFFLUENT	EPA 524.2	MSV/4837		
3550282001	SD COMBINED EFFLUENT	EPA 900.0m	RADC/11147		
3550282002	SD HLD EFFLUENT	EPA 900.0m	RADC/11147		
3550282001	SD COMBINED EFFLUENT	EPA 903.1	RADC/11158		
3550282002	SD HLD EFFLUENT	EPA 903.1	RADC/11158		
3550282001	SD COMBINED EFFLUENT	EPA 904.0	RADC/11159		
3550282002	SD HLD EFFLUENT	EPA 904.0	RADC/11159		
3550282001	SD COMBINED EFFLUENT	SM 2120B	SFL/3970		
3550282002	SD HLD EFFLUENT	SM 2120B	SFL/3970		
3550282001	SD COMBINED EFFLUENT	SM 2150B	SFL/3969		
3550282002	SD HLD EFFLUENT	SM 2150B	SFL/3969		
3550282001	SD COMBINED EFFLUENT	SM 2540C	SFL/3985		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PRIMARY & SECONDARY DW STDS
Pace Project No.: 3550282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3550282002	SD HLD EFFLUENT	SM 2540C	SFL/3985		
3550282001	SD COMBINED EFFLUENT	EPA 300.0	SFL/3972		
3550282002	SD HLD EFFLUENT	EPA 300.0	SFL/3972		
3550282001	SD COMBINED EFFLUENT	SM 4500-H+B	SFL/4091		
3550282002	SD HLD EFFLUENT	SM 4500-H+B	SFL/4091		
3550282001	SD COMBINED EFFLUENT	SM 5540C	SFL/3968		
3550282002	SD HLD EFFLUENT	SM 5540C	SFL/3968		
3550282001	SD COMBINED EFFLUENT	SM 9222B	SFL/4047	SM 9222B	SFL/4048
3550282002	SD HLD EFFLUENT	SM 9222B	SFL/4047	SM 9222B	SFL/4048
3550282001	SD COMBINED EFFLUENT	TKN+NOx Calculation	WET/12027		
3550282002	SD HLD EFFLUENT	TKN+NOx Calculation	WET/12027		
3550282001	SD COMBINED EFFLUENT	EPA 300.0	WETA/15364		
3550282002	SD HLD EFFLUENT	EPA 300.0	WETA/15364		
3550282001	SD COMBINED EFFLUENT	EPA 335.4	WETA/15341	EPA 335.4	WETA/15356
3550282002	SD HLD EFFLUENT	EPA 335.4	WETA/15341	EPA 335.4	WETA/15356
3550282001	SD COMBINED EFFLUENT	EPA 350.1	WETA/15314		
3550282002	SD HLD EFFLUENT	EPA 350.1	WETA/15314		
3550282001	SD COMBINED EFFLUENT	EPA 351.2	WETA/15305	EPA 351.2	WETA/15307
3550282002	SD HLD EFFLUENT	EPA 351.2	WETA/15305	EPA 351.2	WETA/15307
3550282001	SD COMBINED EFFLUENT	EPA 353.2	WETA/15302		
3550282002	SD HLD EFFLUENT	EPA 353.2	WETA/15302		
3550282001	SD COMBINED EFFLUENT	EPA 365.4	WETA/15306	EPA 365.4	WETA/15308
3550282002	SD HLD EFFLUENT	EPA 365.4	WETA/15306	EPA 365.4	WETA/15308