

PMTurkeyCOLPEm Resource

From: Willingham, Michael
Sent: Thursday, August 02, 2012 9:05 AM
To: Williamson, Alicia
Subject: FW: Request for submission of the Miami-Dade Water and Sewer Department (M-DWASD) South District Wastewater Treatment Plan (SDWWTP) Annual Wastestream Analyses Reports from 2007 to the present.
Attachments: SDWWTP2007EfflAnalyses.pdf; SDWWTP2008EfflAnalyses.pdf; SDWWTP2009EfflAnalyses.pdf; SDWWTP2010EfflAnalyses.pdf; SDWWTP2011EfflAnalyses.pdf; SDWWTP2012EfflAnalysis1.pdf; SDWWTP2012EfflAnalysis2.pdf; SDWWTP2012EfflAnalysis3.pdf; SDWWTP2012EfflAnalysis4.pdf; SDWWTP2012EfflAnalysis5.pdf; SDWWTP2012EfflAnalysisCoverLetter.pdf

From: Torres, Phillip (WASD) [<mailto:PTORR01@miamidade.gov>]
Sent: Tuesday, July 31, 2012 10:12 AM
To: Willingham, Michael
Cc: O'Rourke, Richard M. (WASD); Powell, Clive W. (WASD)
Subject: Request for submission of the Miami-Dade Water and Sewer Department (M-DWASD) South District Wastewater Treatment Plan (SDWWTP) Annual Wastestream Analyses Reports from 2007 to the present.

Good morning, Mr. Willingham,

As per the aforementioned request, attached there are electronic copies of all referenced reports from 2007 to the present. Please note that there is one PDF file per year, except for the current year that due to the big size of the files, they were broken down into five smaller PDF files and an additional one for the cover letter to the FDEP.

Should you have any questions or require additional information, please contact me. Thanks.

Phillip Torres, P.E., M.S.E.E.
Engineer 2, Regulatory Compliance Section
Miami-Dade Water and Sewer Department
3071 S.W. 38 Ave.
Miami, FL 33146
786-552-8152 office
PTORR01@miamidade.gov
"Delivering Excellence Every Day"

Hearing Identifier: TurkeyPoint_COL_Public
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Subject: FW: Request for submission of the Miami-Dade Water and Sewer Department (M-DWASD) South District Wastewater Treatment Plan (SDWWTP) Annual Wastestream Analyses Reports from 2007 to the present.

Sent Date: 8/2/2012 9:04:45 AM

Received Date: 8/2/2012 9:04:59 AM

From: Willingham, Michael

Created By: Michael.Willingham@nrc.gov

Recipients:

"Williamson, Alicia" <Alicia.Williamson@nrc.gov>

Tracking Status: None

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Files	Size	Date & Time
MESSAGE	1205	8/2/2012 9:04:59 AM
SDWWTP2007EfflAnalyses.pdf	602254	
SDWWTP2008EfflAnalyses.pdf	402905	
SDWWTP2009EfflAnalyses.pdf	773823	
SDWWTP2010EfflAnalyses.pdf	478012	
SDWWTP2011EfflAnalyses.pdf	3007529	
SDWWTP2012EfflAnalysis1.pdf	17815	
SDWWTP2012EfflAnalysis2.pdf	97267	
SDWWTP2012EfflAnalysis3.pdf	777282	
SDWWTP2012EfflAnalysis4.pdf	145824	
SDWWTP2012EfflAnalysis5.pdf	615722	
SDWWTP2012EfflAnalysisCoverLetter.pdf	67985	

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:



April 24, 2007

miamidade.gov

Certified Mail: 7003 1680 0004 5544 8924
Return Receipt

- ADA Coordination
- Agenda Coordination
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- Consumer Services
- Corrections & Rehabilitation
- Countywide Healthcare Planning
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- Elections
- Emergency Management
- Employee Relations
- Enterprise Technology Services
- Environmental Resources Management
- Fair Employment Practices
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- Fire Rescue
- General Services Administration
- Historic Preservation
- Homeless Trust
- Housing Agency
- Housing Finance Authority
- Human Services
- Independent Review Panel
- International Trade Consortium
- Juvenile Assessment Center
- Medical Examiner
- Metropolitan Planning Organization
- Park and Recreation
- Planning and Zoning
- Police
- Procurement Management
- Property Appraiser
- Public Library System
- Public Works
- Safe Neighborhood Parks
- Seaport
- Solid Waste Management
- Strategic Business Management
- Team Metro
- Transit
- Urban Revitalization Task Force
- Vizcaya Museum and Gardens
- Water and Sewer

Mr. Joseph R. May, P.G.
UIC Program Manager
Florida Department of Environmental Protection
400 North Congress Avenue, Suite 200
West Palm Beach, Florida 33401

Ref: Miami-Dade Water and Sewer Department (MDWASD), South District
Wastewater Treatment Plant (WWTP), Permits 61787-001-UO through
61787-013-UO, and 61787-014-UC through 61787-017-UC

Dear Mr. May:

In accordance FAC 62-550, specific condition 3.k of the referenced operation permits, and specific condition 6.l of the referenced construction permits, attached please find the 2007 sampling results for the annual wastestream analysis of primary, secondary drinking water standards, and minimum criteria. With the exception of Coliform and Nitrogen, Nitrite (as N), the analysis results are below the maximum contaminant levels.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me at (786) 552-8116 or Richard M. O'Rourke at (786) 552-8123, if there are any questions regarding this submittal.

Sincerely,

Vicente E. Arrebola, P.E.
Assistant Director, Wastewater

VEA/RMO/ja

c: T. Brown, FDEP/SED

Attachment: South District WWTP – 2007 Annual Wastestream Analysis
Sampling Results

Delivering Excellence Every Day

KSA Environmental Laboratory Inc.

April 13, 2007

Miami Dade Water/Sewer (Goulds)

Attn: Clive Powell

8950 SW 232nd Street

Miami, FL 33190

RE: Annual Plant Sampling
KSA Workorder: Q001359

Dear Clive Powell,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 02/22/07 13:20.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards. This report shall not be reproduced except in full, without the written approval of the Laboratory.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Paul K. Canevaro
V.P. Technical Services

Enclosure(s)

CASE NARRATIVE

KSA Work Order #: Q001359

Project Name: APS

I. Sample Receiving Notes

All samples listed on the Chain of Custody identified with KSA Work Order # Q001359 were received with containers intact, correctly preserved, and at the proper temperature for the requested analyses.

II. Analytical Data Notes

The analyses were performed in accordance with KSA Environmental Laboratory SOP's and industry-standard methodologies in compliance with FDEP/NELAC criteria. There were no notable problems encountered in the analytical process.

Analysis by methods 549.25, 548.1, 547, 531.1, 525.2, 515.3, and 508.1 were subcontracted to Southern Analytical. Certification Number E84129.

Total Phenols and Sb, As, Pb, Se, Tl analysis were subcontracted to FL Environmental. Certification Number E86006.

Radiological analysis was subcontracted to Florida Radiochemistry. Certification Number E83033.

III. Quality Control Notes

EPA 608: The LCS for batch 7020651 recovered high for Aldrin and Dieldrin; however, the LCSD as well as the LCS/LCSD RPD were within control limits. Since the target analytes were below MDL and the high recovery would yield a high bias, no further corrective action was necessary.

EPA 410.4: The MS and MSD for batch 7020745 recovered low for COD; however, the LCS and LCSD recovered within acceptable criteria. Sample Combined Effluent was used to prepare the matrix spikes and may be biased low for this analyte. The parent sample is flagged with the FDEP "J" qualifier.

SAMPLE SUMMARY

	<u>Client ID</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
Q001359-01	Combined Effluent	Wastewater	02/22/07 10:17	02/22/07 13:20

ANALYTICAL REPORT

Sample ID: Combined Effluent
 Lab #: Q001359-01
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling
 Work Order #: Q001359
 Matrix: Wastewater

Primary DW Volatiles by EPA 524.2

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
1,1,1-Trichloroethane	0.22 ug/L	U	1	0.22	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,1,1-Trichloroethane	0.18 ug/L	U	1	0.18	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1,2,2-Tetrachloroethane	0.36 ug/L	U	1	0.36	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1,2-Trichloroethane	0.30 ug/L	U	1	0.30	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,1,2-Trichloroethane	0.36 ug/L	U	1	0.36	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1-Dichloroethane	0.31 ug/L	U	1	0.31	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1-Dichloroethene	0.25 ug/L	U	1	0.25	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1-Dichloroethene	0.25 ug/L	U	1	0.25	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,2,4-Trichlorobenzene	0.29 ug/L	U	1	0.29	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,2-Dichlorobenzene	0.28 ug/L	U	1	0.28	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,2-Dichloroethane	0.23 ug/L	U	1	0.23	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,2-Dichloroethane	0.29 ug/L	U	1	0.29	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,2-Dichloropropane	0.41 ug/L	U	1	0.41	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,2-Dichloropropane	0.25 ug/L	U	1	0.25	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,4-Dichlorobenzene	0.97 ug/L		1	0.28	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
2-Chloroethylvinyl ether	2.2 ug/L	U	1	2.2	5.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Acrolein	2.0 ug/L	U	1	2.0	10	624	02/27/07 9:05	02/27/07 14:00	7020758
Acrylonitrile	5.2 ug/L	U	1	5.2	10	624	02/27/07 9:05	02/27/07 14:00	7020758
Benzene	0.36 ug/L	U	1	0.36	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Benzene	0.30 ug/L	U	1	0.30	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Bromodichloromethane	0.26 ug/L	U	1	0.26	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Bromoform	0.41 ug/L	U	1	0.41	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Bromomethane	0.77 ug/L	U	1	0.77	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Carbon tetrachloride	0.15 ug/L	U	1	0.15	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Carbon Tetrachloride	0.24 ug/L	U	1	0.24	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Chlorobenzene	0.27 ug/L	U	1	0.27	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Chlorobenzene	0.23 ug/L	U	1	0.23	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Chlorodibromomethane	0.30 ug/L	U	1	0.30	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Chloroethane	0.66 ug/L	U	1	0.66	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Chloroform	2.3 ug/L		1	0.30	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Chloromethane	0.72 ug/L	U	1	0.72	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
cis-1,2-Dichloroethene	0.32 ug/L		1	0.24	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
cis-1,3-Dichloropropene	0.32 ug/L	U	1	0.32	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Ethylbenzene	0.32 ug/L	U	1	0.32	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Ethylbenzene	0.33 ug/L	U	1	0.33	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Methylene chloride	0.42 ug/L	U	1	0.42	5.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Methylene chloride	0.42 ug/L	U	1	0.42	1.0	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Styrene	0.27 ug/L	U	1	0.27	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Tetrachloroethene	2.0 ug/L		1	0.34	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Tetrachloroethene	1.6 ug/L		1	0.37	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046

Florida Certifications: E86349 & E86616 (Microbiology)

ANALYTICAL REPORT

Sample ID: Combined Effluent
 Lab #: Q001359-01
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling
 Work Order #: Q001359
 Matrix: Wastewater

Priority Pollutant Volatiles by EPA 624

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Toluene	0.31 ug/L U		1	0.31	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Toluene	0.41 ug/L U		1	0.41	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
trans-1,2-Dichloroethene	0.38 ug/L U		1	0.38	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
trans-1,2-Dichloroethene	0.31 ug/L U		1	0.31	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
trans-1,3-Dichloropropene	0.34 ug/L U		1	0.34	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Trichloroethene	0.38 ug/L		1	0.24	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Trichloroethene	0.53 ug/L I		1	0.42	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Vinyl chloride	0.38 ug/L U		1	0.38	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Vinyl chloride	0.31 ug/L U		1	0.31	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Xylenes, Total	0.98 ug/L U		1	0.98	1.5	524.2	03/02/07 13:41	03/02/07 20:30	7030046

Surrogate Recovery

	% Recovery	% Recovery Limits	
1,2-Dichlorobenzene-d4	86.8 %	0-200	7030046
1,2-Dichloroethane-d4	112 %	72-136	7020758
4-Bromofluorobenzene	83.2 %	80-120	7030046
4-Bromofluorobenzene	97.2 %	79-117	7020758
Dibromofluoromethane	117 %	77-131	7020758
Toluene-d8	98.2 %	78-125	7020758

Semivolatiles by GC/MS

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
2,4,6-Trichlorophenol	1.5 ug/L U		1	1.5	1.9	625	02/23/07 9:11	02/26/07 22:13	7020639
2-Chlorophenol	1.4 ug/L U		1	1.4	1.9	625	02/23/07 9:11	02/26/07 22:13	7020639
Anthracene	0.033 ug/L U		1	0.033	0.28	625	02/23/07 9:11	02/26/07 22:13	7020639
Butyl benzyl phthalate	1.9 ug/L U		1	1.9	4.7	625	02/23/07 9:11	02/26/07 22:13	7020639
Dimethyl phthalate	1.6 ug/L U		1	1.6	4.7	625	02/23/07 9:11	02/26/07 22:13	7020639
Naphthalene	0.053 ug/L U		1	0.053	9.4	625	02/23/07 9:11	02/26/07 22:13	7020639
Phenanthrene	0.080 ug/L U		1	0.080	0.19	625	02/23/07 9:11	02/26/07 22:13	7020639
Phenol	1.8 ug/L U		1	1.8	1.9	625	02/23/07 9:11	02/26/07 22:13	7020639

Surrogate Recovery

	% Recovery	% Recovery Limits	
2,4,6-Tribromophenol	33.2 %	31-139	7020639
2-Fluorobiphenyl	46.0 %	43-119	7020639
2-Fluorophenol	27.4 %	19-108	7020639
Nitrobenzene-d5	50.6 %	33-120	7020639
Phenol-d5	13.2 %	10-117	7020639
Terphenyl-d14	56.8 %	37-129	7020639

Florida Certifications: E86349 & E86616 (Microbiology)

ANALYTICAL REPORT

Sample ID: Combined Effluent
 Lab #: Q001359-01
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling
 Work Order #: Q001359
 Matrix: Wastewater

Semivolatiles by GC

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
1,2-Dibromo-3-chloropropane	0.0036 ug/L U		1	0.0036	0.040	504.1	03/06/07 9:08	03/06/07 14:38	7030126
1,2-Dibromoethane (EDB)	0.0053 ug/L U		1	0.0053	0.020	504.1	03/06/07 9:08	03/06/07 14:38	7030126
Aldrin	0.0040 ug/L U		1	0.0040	0.0046	608	02/23/07 11:41	03/05/07 4:31	7020651
Dieldrin	0.0028 ug/L U		1	0.0028	0.0046	608	02/23/07 11:41	03/05/07 4:31	7020651

Surrogate Recovery

	% Recovery	% Recovery Limits	
1,1,1,2-Tetrachloroethane	114 %	64-125	7030126
Decachlorobiphenyl	61.9 %	41-129	7020651
Tetrachloro-meta-xylene	80.5 %	42-129	7020651

Metals

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Aluminum, Total	0.083 mg/L I, V		1	0.035	0.20	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Barium, Total	0.0074 mg/L I		1	0.00098	0.050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Beryllium, Total	0.0018 mg/L U		1	0.0018	0.0040	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Cadmium, Total	0.0021 mg/L U		1	0.0021	0.0050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Chromium, Total	0.0025 mg/L U		1	0.0025	0.0050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Copper, Total	0.0060 mg/L U		1	0.0060	0.010	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Iron, Total	0.14 mg/L		1	0.029	0.050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Manganese, Total	0.012 mg/L		1	0.0034	0.0050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Mercury, Total	0.000060 mg/L I, V		1	0.000060	0.00020	245.1	02/22/07 20:19	02/23/07 15:33	7020629
Nickel, Total	0.0059 mg/L U		1	0.0059	0.010	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Silver, Total	0.00088 mg/L U		1	0.00088	0.0050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Sodium, Total	71 mg/L		1	0.35	1.0	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Zinc, Total	0.015 mg/L I		1	0.0042	0.020	200.7	02/22/07 20:26	02/23/07 17:13	7020630

Wet Chemistry

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
BOD	9.0 mg/L		1	1.0	2.0	405.1	02/23/07 14:30	02/23/07 14:30	7020797
Chloride	100 mg/L		1	0.20	0.40	300.0	02/23/07 18:00	02/23/07 18:00	7020699
COD	73 mg/L J		1	8.4	10	410.4	02/26/07 12:40	02/26/07 12:40	7020745
Color	50 cu		1	2.5	2.5	110.2	02/23/07 10:00	02/23/07 10:00	7020647
Conductivity	857 umhos/cm		1	0.00	0.00	120.1	02/27/07 15:00	02/27/07 15:00	7020764
Cyanide, Total	0.026 mg/L		1	0.0040	0.0050	335.3	02/23/07 11:30	02/25/07 13:40	7020687
Fluoride	0.28 mg/L		1	0.054	0.20	300.0	02/27/07 9:15	02/27/07 9:15	7020746
MBAS	0.11 mg/L		1	0.043	0.075	425.1	02/23/07 15:00	02/23/07 15:00	7020685
Nitrogen, Ammonia (as N)	23 mg/L		20	0.29	0.40	350.1	02/23/07 13:14	02/23/07 16:16	7020657
Nitrogen, Kjeldahl, Total	31 mg/L		50	4.5	12	351.2	02/28/07 10:13	02/28/07 18:20	7030006

Florida Certifications: E86349 & E86616 (Microbiology)

ANALYTICAL REPORT

Sample ID: Combined Effluent
 Lab #: Q001359-01
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling
 Work Order #: Q001359
 Matrix: Wastewater

Wet Chemistry

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Nitrogen, Nitrate (as N)	0.37 mg/L	I	1	0.062	0.50	300.0	02/23/07 18:00	02/23/07 18:00	7020699
Nitrogen, Nitrite (as N)	1.6 mg/L		1	0.021	0.50	300.0	02/23/07 14:00	02/23/07 14:00	7020810
Nitrogen, Organic	8.0 mg/L	I	50	4.5	12	Calc	02/28/07 10:13	02/28/07 18:20	[CALC]
Odor	0.0 t.o.n.	U	1	0.0	0.0	140.1	02/23/07 10:00	02/23/07 10:00	7020701
pH	6.92 s.u.		1	0.00	0.00	150.1	02/23/07 15:00	02/23/07 15:00	7020672
Phosphorus, Total	2.7 mg/L	V	1	0.047	0.10	365.4	02/23/07 7:30	02/26/07 15:38	7020715
Solids, Total Dissolved	450 mg/L		1	8.9	10	160.1	02/26/07 16:30	02/26/07 16:30	7020737
Sulfate	28 mg/L		1	0.14	1.0	300.0	02/23/07 18:00	02/23/07 18:00	7020699

Subcontract Data

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Carbofuran	0.5 ug/L	U	1	0.5		531.1			
Oxamyl	0.5 ug/L	U	1	0.5		531.1			

Subcontract Data - 508.1

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Chlordane	0.05 ug/L	U	1	0.05		508.1	03/01/07 10:00	03/07/07 21:42	
PCB 1016	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1221	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1232	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1242	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1248	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1254	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1260	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
Total PCBs	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
Toxaphene	0.5 ug/L	U	1	0.5		508.1	03/01/07 10:00	03/07/07 21:42	

Subcontract Data - 515.3

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
2,4,5-TP (Silvex)	0.25 ug/L	U	1	0.25		515.3	02/27/07 9:30	02/28/07 16:28	
2,4-D	1 ug/L	U	1	1		515.3	02/27/07 9:30	02/28/07 16:28	
Dalapon	1 ug/L	U	1	1		515.3	02/27/07 9:30	02/28/07 16:28	
Dinoseb	0.5 ug/L	U	1	0.5		515.3	02/27/07 9:30	02/28/07 16:28	
Pentachlorophenol	0.1 ug/L	U	1	0.1		515.3	02/27/07 9:30	02/28/07 16:28	
Picloram	0.75 ug/L	U	1	0.75		515.3	02/27/07 9:30	02/28/07 16:28	

Florida Certifications: E86349 & E86616 (Microbiology)

ANALYTICAL REPORT

Sample ID: Combined Effluent
 Lab #: Q001359-01
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling
 Work Order #: Q001359
 Matrix: Wastewater

Subcontract Data - 525.2

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Alachlor	0.2 ug/L U		1	0.2		525.2	03/01/07 10:00	03/02/07 5:36	
Atrazine	0.06 ug/L U		1	0.06		525.2	03/01/07 10:00	03/02/07 5:36	
Benzo (a) pyrene	0.1 ug/L U		1	0.1		525.2	03/01/07 10:00	03/02/07 5:36	
Di(2-ethylhexyl)adipate	0.3 ug/L U		1	0.3		525.2	03/01/07 10:00	03/02/07 5:36	
Di(2-ethylhexyl)phthalate	ug/L U		1	ND		525.2	03/01/07 10:00	03/02/07 5:36	
Endrin	0.1 ug/L U		1	0.1		525.2	03/01/07 10:00	03/02/07 5:36	
gamma-BHC	0.06 ug/L U		1	0.06		525.2	03/01/07 10:00	03/02/07 5:36	
Heptachlor	0.08 ug/L U		1	0.08		525.2	03/01/07 10:00	03/02/07 5:36	
Heptachlor epoxide	0.1 ug/L U		1	0.1		525.2	03/01/07 10:00	03/02/07 5:36	
Hexachlorobenzene	0.05 ug/L U		1	0.05		525.2	03/01/07 10:00	03/02/07 5:36	
Hexachlorocyclopentadiene	0.2 ug/L U		1	0.2		525.2	03/01/07 10:00	03/02/07 5:36	
Methoxychlor	0.05 ug/L U		1	0.05		525.2	03/01/07 10:00	03/02/07 5:36	
Simazine	0.07 ug/L U		1	0.07		525.2	03/01/07 10:00	03/02/07 5:36	

Subcontract Data - 547

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Glyphosate	10 ug/L U		1	10		547		03/06/07 20:11	

Subcontract Data - 548.1

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Endothall	20 ug/L U		1	20		548.1	03/01/07 10:00	03/06/07 17:53	

Subcontract Data - 549.2

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Diquat	1 ug/L U		1	1		549.2	02/27/07 9:30	02/28/07 13:21	

Subcontract Data - 200.8

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Antimony	0.0004 mg/L U		1	0.0004	0.0012	200.8	02/27/07 0:00	02/27/07 15:27	
Arsenic	0.0012 mg/L		1	0.00012	0.00036	200.8	02/27/07 0:00	02/27/07 15:27	
Lead	0.0011 mg/L		1	1e-005	3e-005	200.8	02/27/07 0:00	02/27/07 15:27	
Selenium	0.00030 mg/L U		1	0.00030	0.00090	200.8	02/27/07 0:00	02/27/07 15:27	
Thallium	2e-005 mg/L U		1	2e-005	6e-005	200.8	02/27/07 0:00	02/27/07 15:27	

Florida Certifications: E86349 & E86616 (Microbiology)

ANALYTICAL REPORT

Sample ID: Combined Effluent
 Lab #: Q001359-01
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling
 Work Order #: Q001359
 Matrix: Wastewater

Subcontract Data - 420.2

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Phenols, Total	0.031 mg/L U		1	0.031	0.093	420.2	03/15/07 0:00	03/15/07 16:57	

Subcontract Data

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Gross Alpha	1.5+/-1.1 pCi/L		1	1.3		900.0	03/01/07 0:00	03/02/07 0:00	
Radium-226	0.2+/-0.1 pCi/L		1	0.1		903.1	03/05/07 0:00	03/13/07 0:00	
Radium-228	0.8+/-0.5 pCi/L U		1	0.8		Ra-05	03/05/07 0:00	03/13/07 0:00	

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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Priority Pollutant Volatiles by EPA 624 - Quality Control

Blank (7020758-BLK1)

Prepared & Analyzed: 27-Feb-07

1,1,1-Trichloroethane	0.18	U	0.18	1.0	ug/L			
1,1,2,2-Tetrachloroethane	0.36	U	0.36	1.0	ug/L			
1,1,2-Trichloroethane	0.36	U	0.36	1.0	ug/L			
1,1-Dichloroethane	0.31	U	0.31	1.0	ug/L			
1,1-Dichloroethene	0.25	U	0.25	1.0	ug/L			
1,2-Dichloroethane	0.29	U	0.29	1.0	ug/L			
1,2-Dichloropropane	0.41	U	0.41	1.0	ug/L			
2-Chloroethylvinyl ether	2.2	U	2.2	5.0	ug/L			
Acrolein	2.0	U	2.0	10	ug/L			
Acrylonitrile	5.2	U	5.2	10	ug/L			
Benzene	0.36	U	0.36	1.0	ug/L			
Bromodichloromethane	0.26	U	0.26	1.0	ug/L			
Bromoform	0.41	U	0.41	1.0	ug/L			
Bromomethane	0.77	U	0.77	1.0	ug/L			
Carbon tetrachloride	0.15	U	0.15	1.0	ug/L			
Chlorobenzene	0.23	U	0.23	1.0	ug/L			
Chlorodibromomethane	0.30	U	0.30	1.0	ug/L			
Chloroethane	0.66	U	0.66	1.0	ug/L			
Chloroform	0.30	U	0.30	1.0	ug/L			
Chloromethane	0.72	U	0.72	1.0	ug/L			
cis-1,3-Dichloropropene	0.32	U	0.32	1.0	ug/L			
Ethylbenzene	0.33	U	0.33	1.0	ug/L			
Methylene chloride	0.42	U	0.42	5.0	ug/L			
Tetrachloroethene	0.34	U	0.34	1.0	ug/L			
Toluene	0.31	U	0.31	1.0	ug/L			
trans-1,2-Dichloroethene	0.38	U	0.38	1.0	ug/L			
trans-1,3-Dichloropropene	0.34	U	0.34	1.0	ug/L			
Trichloroethene	0.42	U	0.42	1.0	ug/L			
Vinyl chloride	0.31	U	0.31	1.0	ug/L			
<i>Surrogate: 1,2-Dichloroethane-d4</i>						120		72-136
<i>Surrogate: 4-Bromo fluorobenzene</i>						96.5		79-117
<i>Surrogate: Dibromo fluoromethane</i>						130		77-131
<i>Surrogate: Toluene-d8</i>						111		78-125

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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Priority Pollutant Volatiles by EPA 624 - Quality Control

LCS (7020758-BS1)				Prepared & Analyzed: 27-Feb-07				
1,1,1-Trichloroethane					102	79-133		
1,1,2,2-Tetrachloroethane					96.5	78-127		
1,1,2-Trichloroethane					95.0	77-123		
1,1-Dichloroethane					99.0	76-127		
1,1-Dichloroethene					99.5	73-142		
1,2-Dichloropropane					93.5	77-125		
Benzene					98.5	80-126		
Chlorobenzene					94.5	82-118		
Chloroform					106	78-126		
Ethylbenzene					94.0	83-122		
Tetrachloroethene					89.5	76-126		
Toluene					93.5	77-123		
trans-1,2-Dichloroethene					98.5	77-126		
Trichloroethene					92.5	79-126		
Vinyl chloride					87.5	67-127		
<i>Surrogate: 1,2-Dichloroethane-d4</i>					99.0	72-136		
<i>Surrogate: 4-Bromofluorobenzene</i>					101	79-117		
<i>Surrogate: Dibromofluoromethane</i>					111	77-131		
<i>Surrogate: Toluene-d8</i>					99.2	78-125		

Priority Pollutant Volatiles by EPA 624 - Quality Control

LCS Dup (7020758-BSD1)				Prepared & Analyzed: 27-Feb-07				
1,1,1-Trichloroethane					104	79-133	1.94	20
1,1,2,2-Tetrachloroethane					98.5	78-127	2.05	20
1,1,2-Trichloroethane					99.0	77-123	4.12	20
1,1-Dichloroethane					102	76-127	2.99	20
1,1-Dichloroethene					101	73-142	1.50	20
1,2-Dichloropropane					96.5	77-125	3.16	20
Benzene					101	80-126	2.51	20
Chlorobenzene					96.5	82-118	2.09	20
Chloroform					109	78-126	2.79	20
Ethylbenzene					97.5	83-122	3.66	20
Tetrachloroethene					93.0	76-126	3.84	20
Toluene					96.5	77-123	3.16	20
trans-1,2-Dichloroethene					102	77-126	3.49	20
Trichloroethene					94.5	79-126	2.14	20
Vinyl chloride					89.5	67-127	2.26	20
<i>Surrogate: 1,2-Dichloroethane-d4</i>					100	72-136		
<i>Surrogate: 4-Bromofluorobenzene</i>					101	79-117		
<i>Surrogate: Dibromofluoromethane</i>					109	77-131		
<i>Surrogate: Toluene-d8</i>					99.8	78-125		

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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Priority Pollutant Volatiles by EPA 624 - Quality Control

Matrix Spike (7020758-MS1)	Source: Q001382-01	Prepared & Analyzed: 27-Feb-07
1,1,1-Trichloroethane		138 70-130
1,1,2,2-Tetrachloroethane		104 70-130
1,1,2-Trichloroethane		114 70-130
1,1-Dichloroethane		136 70-130
1,1-Dichloroethene		140 70-130
1,2-Dichloropropane		114 70-130
Benzene		129 70-130
Chlorobenzene		102 70-130
Chloroform		146 70-130
Ethylbenzene		108 70-130
Tetrachloroethene		106 70-130
Toluene		114 70-130
trans-1,2-Dichloroethene		144 70-130
Trichloroethene		110 70-130
Vinyl chloride		114 70-130
Surrogate: 1,2-Dichloroethane-d4		128 72-136
Surrogate: 4-Bromofluorobenzene		104 79-117
Surrogate: Dibromofluoromethane		128 77-131
Surrogate: Toluene-d8		109 78-125

Primary DW Volatiles by EPA 524.2 - Quality Control

Blank (7030046-BLK1)	Prepared & Analyzed: 02-Mar-07
1,1,1-Trichloroethane	0.22 U 0.22 0.50 ug/L
1,1,2-Trichloroethane	0.30 U 0.30 0.50 ug/L
1,1-Dichloroethene	0.25 U 0.25 0.50 ug/L
1,2,4-Trichlorobenzene	0.29 U 0.29 0.50 ug/L
1,2-Dichlorobenzene	0.28 U 0.28 0.50 ug/L
1,2-Dichloroethane	0.23 U 0.23 0.50 ug/L
1,2-Dichloropropane	0.25 U 0.25 0.50 ug/L
1,4-Dichlorobenzene	0.28 U 0.28 0.50 ug/L
Benzene	0.30 U 0.30 0.50 ug/L
Carbon Tetrachloride	0.24 U 0.24 0.50 ug/L
Chlorobenzene	0.27 U 0.27 0.50 ug/L
cis-1,2-Dichloroethene	0.24 U 0.24 0.50 ug/L
Ethylbenzene	0.32 U 0.32 0.50 ug/L
Methylene chloride	0.42 U 0.42 1.0 ug/L
Styrene	0.27 U 0.27 0.50 ug/L
Tetrachloroethene	0.37 U 0.37 0.50 ug/L
Toluene	0.41 U 0.41 0.50 ug/L
trans-1,2-Dichloroethene	0.31 U 0.31 0.50 ug/L
Trichloroethene	0.24 U 0.24 0.50 ug/L
Vinyl chloride	0.38 U 0.38 0.50 ug/L
Xylenes, Total	0.98 U 0.98 1.5 ug/L
Surrogate: 1,2-Dichlorobenzene-d4	85.8 0-200
Surrogate: 4-Bromofluorobenzene	84.5 80-120

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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Primary DW Volatiles by EPA 524.2 - Quality Control

LCS (7030046-BS1)				Prepared & Analyzed: 02-Mar-07				
1,1,1-Trichloroethane					91.8	70-130		
1,1,2-Trichloroethane					93.2	70-130		
1,1-Dichloroethene					91.6	70-130		
1,2,4-Trichlorobenzene					79.6	70-130		
1,2-Dichlorobenzene					90.2	70-130		
1,2-Dichloroethane					90.2	70-130		
1,2-Dichloropropane					93.0	70-130		
1,4-Dichlorobenzene					89.6	70-130		
Benzene					92.6	70-130		
Carbon Tetrachloride					95.6	70-130		
Chlorobenzene					91.4	70-130		
cis-1,2-Dichloroethene					89.6	70-130		
Ethylbenzene					93.4	70-130		
Methylene chloride					90.2	70-130		
Styrene					93.4	70-130		
Tetrachloroethene					92.0	70-130		
Toluene					91.4	70-130		
trans-1,2-Dichloroethene					88.4	70-130		
Trichloroethene					89.6	70-130		
Vinyl chloride					84.6	70-130		
Xylenes, Total					94.7	70-130		
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					91.2	0-200		
<i>Surrogate: 4-Bromofluorobenzene</i>					90.0	80-120		

Semivolatiles by GC/MS - Quality Control

Blank (7020639-BLK1)						Prepared: 23-Feb-07 Analyzed: 26-Feb-07		
2,4,6-Trichlorophenol	1.5	U	1.5	2.0	ug/L			
2-Chlorophenol	1.5	U	1.5	2.0	ug/L			
Anthracene	0.035	U	0.035	0.30	ug/L			
Butyl benzyl phthalate	2.0	U	2.0	5.0	ug/L			
Dimethyl phthalate	1.7	U	1.7	5.0	ug/L			
Naphthalene	0.057	U	0.057	10	ug/L			
Phenanthrene	0.085	U	0.085	0.20	ug/L			
Phenol	2.0	U	2.0	2.0	ug/L			
<i>Surrogate: 2,4,6-Tribromophenol</i>						59.3	31-139	
<i>Surrogate: 2-Fluorobiphenyl</i>						70.2	43-119	
<i>Surrogate: 2-Fluorophenol</i>						63.5	19-108	
<i>Surrogate: Nitrobenzene-d5</i>						75.2	33-120	
<i>Surrogate: Phenol-d5</i>						73.3	10-117	
<i>Surrogate: Terphenyl-d14</i>						75.4	37-129	

Florida Certifications: E86349 & E86616 (Microbiology)

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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Semivolatiles by GC/MS - Quality Control

LCS (7020639-BS1)				Prepared: 23-Feb-07 Analyzed: 26-Feb-07				
2,4,6-Trichlorophenol					60.0	59-137		
2-Chlorophenol					74.0	57-118		
Anthracene					80.8	56-140		
Butyl benzyl phthalate					87.2	75-140		
Dimethyl phthalate					87.8	78-127		
Naphthalene					84.5	39-131		
Phenanthrene					81.0	51-142		
Phenol					79.0	27-126		
Surrogate: 2,4,6-Tribromophenol					58.8	31-139		
Surrogate: 2-Fluorobiphenyl					61.2	43-119		
Surrogate: 2-Fluorophenol					72.0	19-108		
Surrogate: Nitrobenzene-d5					64.4	33-120		
Surrogate: Phenol-d5					69.9	10-117		
Surrogate: Terphenyl-d14					90.2	37-129		

Semivolatiles by GC/MS - Quality Control

LCS Dup (7020639-BSD1)				Prepared: 23-Feb-07 Analyzed: 26-Feb-07				
2,4,6-Trichlorophenol					60.8	59-137	1.32	20
2-Chlorophenol					71.5	57-118	3.44	20
Anthracene					80.8	56-140	0.00	20
Butyl benzyl phthalate					94.2	75-140	7.72	20
Dimethyl phthalate					95.2	78-127	8.09	20
Naphthalene					81.5	39-131	3.61	20
Phenanthrene					81.0	51-142	0.00	20
Phenol					80.2	27-126	1.51	20
Surrogate: 2,4,6-Tribromophenol					56.8	31-139		
Surrogate: 2-Fluorobiphenyl					58.4	43-119		
Surrogate: 2-Fluorophenol					49.7	19-108		
Surrogate: Nitrobenzene-d5					71.0	33-120		
Surrogate: Phenol-d5					23.2	10-117		
Surrogate: Terphenyl-d14					96.2	37-129		

Semivolatiles by GC - Quality Control

Blank (7020651-BLK1)					Prepared: 23-Feb-07 Analyzed: 04-Mar-07			
Aldrin	0.0043	U	0.0043	0.0050	ug/L			
Dieldrin	0.0030	U	0.0030	0.0050	ug/L			
Surrogate: Decachlorobiphenyl						101	41-129	
Surrogate: Tetrachloro-meta-xylene						95.6	42-129	

Semivolatiles by GC - Quality Control

LCS (7020651-BS1)				Prepared: 23-Feb-07 Analyzed: 04-Mar-07				
Aldrin					127	56-120		
Dieldrin					138	51-133		
Surrogate: Decachlorobiphenyl					72.8	41-129		
Surrogate: Tetrachloro-meta-xylene					98.0	42-129		

Florida Certifications: E86349 & E86616 (Microbiology)

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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Semivolatiles by GC - Quality Control

LCS Dup (7020651-BSD1)					Prepared: 23-Feb-07 Analyzed: 05-Mar-07			
Aldrin					106	56-120	18.0	20
Dieldrin					118	51-133	15.6	20
<i>Surrogate: Decachlorobiphenyl</i>					51.2	41-129		
<i>Surrogate: Tetrachloro-meta-xylene</i>					80.8	42-129		

Semivolatiles by GC - Quality Control

Blank (7030126-BLK1)					Prepared & Analyzed: 06-Mar-07			
1,2-Dibromo-3-chloropropane	0.0036	U	0.0036	0.040	ug/L			
1,2-Dibromoethane (EDB)	0.0053	U	0.0053	0.020	ug/L			
<i>Surrogate: 1,1,1,2-Tetrachloroethane</i>						105	64-125	

Semivolatiles by GC - Quality Control

LCS (7030126-BS1)					Prepared & Analyzed: 06-Mar-07			
1,2-Dibromo-3-chloropropane					88.0	70-130		
1,2-Dibromoethane (EDB)					83.6	70-130		
<i>Surrogate: 1,1,1,2-Tetrachloroethane</i>					103	64-125		

Semivolatiles by GC - Quality Control

LCS Dup (7030126-BSD1)					Prepared & Analyzed: 06-Mar-07			
1,2-Dibromo-3-chloropropane					82.0	70-130	7.06	20
1,2-Dibromoethane (EDB)					76.8	70-130	8.48	20
<i>Surrogate: 1,1,1,2-Tetrachloroethane</i>					101	64-125		

Semivolatiles by GC - Quality Control

Matrix Spike (7030126-MS1)					Source: Q001453-03 Prepared & Analyzed: 06-Mar-07			
1,2-Dibromo-3-chloropropane					109	70-130		
1,2-Dibromoethane (EDB)					116	70-130		
<i>Surrogate: 1,1,1,2-Tetrachloroethane</i>					103	64-125		

Metals - Quality Control

Blank (7020629-BLK1)					Prepared: 22-Feb-07 Analyzed: 23-Feb-07			
Mercury, Total	0.000072	I	0.000060	0.00020	mg/L			

Metals - Quality Control

LCS (7020629-BS1)					Prepared: 22-Feb-07 Analyzed: 23-Feb-07			
Mercury, Total						99.1	85-115	

Metals - Quality Control

Matrix Spike (7020629-MS1)					Source: Q001353-01 Prepared: 22-Feb-07 Analyzed: 23-Feb-07			
Mercury, Total						96.5	75-125	

Metals - Quality Control

Matrix Spike Dup (7020629-MSD1)					Source: Q001353-01 Prepared: 22-Feb-07 Analyzed: 23-Feb-07			
Mercury, Total						87.0	75-125	10.4
								20

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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Metals - Quality Control

Blank (7020630-BLK1)

Prepared: 22-Feb-07 Analyzed: 23-Feb-07

Aluminum, Total	0.085	I	0.035	0.20	mg/L
Barium, Total	0.00098	U	0.00098	0.050	mg/L
Beryllium, Total	0.0018	U	0.0018	0.0040	mg/L
Cadmium, Total	0.0021	U	0.0021	0.0050	mg/L
Chromium, Total	0.0025	U	0.0025	0.0050	mg/L
Copper, Total	0.0060	U	0.0060	0.010	mg/L
Iron, Total	0.029	U	0.029	0.050	mg/L
Manganese, Total	0.0034	U	0.0034	0.0050	mg/L
Nickel, Total	0.0059	U	0.0059	0.010	mg/L
Silver, Total	0.00088	U	0.00088	0.0050	mg/L
Sodium, Total	0.35	U	0.35	1.0	mg/L
Zinc, Total	0.0042	U	0.0042	0.020	mg/L

Metals - Quality Control

LCS (7020630-BS1)

Prepared: 22-Feb-07 Analyzed: 23-Feb-07

Aluminum, Total	101	85-115
Barium, Total	100	85-115
Beryllium, Total	106	85-115
Cadmium, Total	105	85-115
Chromium, Total	110	85-115
Copper, Total	104	85-115
Iron, Total	101	85-115
Manganese, Total	96.3	85-115
Nickel, Total	106	85-115
Silver, Total	106	85-115
Sodium, Total	86.9	85-115
Zinc, Total	107	85-115

Metals - Quality Control

Matrix Spike (7020630-MS1)

Source: Q001306-01

Prepared: 22-Feb-07 Analyzed: 23-Feb-07

Aluminum, Total	106	70-130
Barium, Total	97.0	70-130
Beryllium, Total	106	70-130
Cadmium, Total	106	70-130
Chromium, Total	109	70-130
Copper, Total	107	70-130
Iron, Total	109	70-130
Manganese, Total	95.5	70-130
Nickel, Total	107	70-130
Silver, Total	107	70-130
Sodium, Total	100	70-130
Zinc, Total	113	70-130

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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Metals - Quality Control

Matrix Spike Dup (7020630-MSD1)		Source: Q001306-01			Prepared: 22-Feb-07 Analyzed: 23-Feb-07			
Aluminum, Total					103	70-130	2.87	20
Barium, Total					96.0	70-130	1.04	20
Beryllium, Total					104	70-130	1.90	20
Cadmium, Total					103	70-130	2.87	20
Chromium, Total					106	70-130	2.79	20
Copper, Total					104	70-130	2.84	20
Iron, Total					119	70-130	8.77	20
Manganese, Total					93.2	70-130	2.44	20
Nickel, Total					104	70-130	2.84	20
Silver, Total					104	70-130	2.84	20
Sodium, Total					800	70-130	156	20
Zinc, Total					110	70-130	2.69	20

Wet Chemistry - Quality Control

Blank (7020647-BLK1)		Prepared & Analyzed: 23-Feb-07						
Color	2.5	U	2.5	2.5	cu			

Wet Chemistry - Quality Control

LCS (7020647-BS1)		Prepared & Analyzed: 23-Feb-07						
Color						100	80-120	

Wet Chemistry - Quality Control

LCS Dup (7020647-BSD1)		Prepared & Analyzed: 23-Feb-07						
Color						100	80-120	0.00 20

Wet Chemistry - Quality Control

Duplicate (7020647-DUP1)		Source: Q001359-01			Prepared & Analyzed: 23-Feb-07			
Color	50.0		2.5	2.5	cu			0.00 20

Wet Chemistry - Quality Control

Blank (7020657-BLK1)		Prepared & Analyzed: 23-Feb-07						
Nitrogen, Ammonia (as N)	0.015	U	0.015	0.020	mg/L			

Wet Chemistry - Quality Control

LCS (7020657-BS1)		Prepared & Analyzed: 23-Feb-07						
Nitrogen, Ammonia (as N)						109	90-110	

Wet Chemistry - Quality Control

LCS Dup (7020657-BSD1)		Prepared & Analyzed: 23-Feb-07						
Nitrogen, Ammonia (as N)						108	90-110	0.922 20

Wet Chemistry - Quality Control

LCS (7020672-BS1)		Prepared & Analyzed: 23-Feb-07						
pH						100	90-110	

Wet Chemistry - Quality Control

LCS Dup (7020672-BSD1)		Prepared & Analyzed: 23-Feb-07						
pH						100	90-110	0.163 20

Wet Chemistry - Quality Control

Duplicate (7020672-DUP1)		Source: Q001366-01			Prepared & Analyzed: 23-Feb-07			
pH	7.61		0.00	0.00	s.u.			0.527 20

Florida Certifications: E86349 & E86616 (Microbiology)

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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Wet Chemistry - Quality Control

Blank (7020685-BLK1)					Prepared & Analyzed: 21-Feb-07			
MBAS	0.043	U	0.043	0.075	mg/L			

Wet Chemistry - Quality Control

LCS (7020685-BS1)					Prepared & Analyzed: 21-Feb-07			
MBAS					91.2	90-110		

Wet Chemistry - Quality Control

LCS Dup (7020685-BSD1)					Prepared & Analyzed: 21-Feb-07			
MBAS					102	90-110	11.2	20

Wet Chemistry - Quality Control

Blank (7020687-BLK1)					Prepared: 23-Feb-07 Analyzed: 25-Feb-07			
Cyanide, Total	0.0040	U	0.0040	0.0050	mg/L			

Wet Chemistry - Quality Control

LCS (7020687-BS1)					Prepared: 23-Feb-07 Analyzed: 25-Feb-07			
Cyanide, Total					107	80-120		

Wet Chemistry - Quality Control

LCS Dup (7020687-BSD1)					Prepared: 23-Feb-07 Analyzed: 25-Feb-07			
Cyanide, Total					105	80-120	1.89	20

Wet Chemistry - Quality Control

Matrix Spike (7020687-MS1)			Source: Q001359-01		Prepared: 23-Feb-07 Analyzed: 25-Feb-07			
Cyanide, Total					97.0	80-120		

Wet Chemistry - Quality Control

Matrix Spike Dup (7020687-MSD1)			Source: Q001359-01		Prepared: 23-Feb-07 Analyzed: 25-Feb-07			
Cyanide, Total					NR	80-120	NR	20

Wet Chemistry - Quality Control

Blank (7020699-BLK1)					Prepared & Analyzed: 23-Feb-07			
Chloride	0.20	U	0.20	0.40	mg/L			
Nitrogen, Nitrate (as N)	0.062	U	0.062	0.50	mg/L			
Sulfate	0.14	U	0.14	1.0	mg/L			

Wet Chemistry - Quality Control

LCS (7020699-BS1)					Prepared & Analyzed: 23-Feb-07			
Chloride					100	90-110		
Nitrogen, Nitrate (as N)					105	80-110		
Sulfate					100	90-110		

Wet Chemistry - Quality Control

LCS Dup (7020699-BSD1)					Prepared & Analyzed: 23-Feb-07			
Chloride					101	90-110	0.995	20
Nitrogen, Nitrate (as N)					105	80-110	0.00	20
Sulfate					100	90-110	0.00	20

Wet Chemistry - Quality Control

Blank (7020715-BLK1)					Prepared: 23-Feb-07 Analyzed: 26-Feb-07			
Phosphorus, Total	0.057	I	0.047	0.10	mg/L			

Florida Certifications: E86349 & E86616 (Microbiology)

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
Wet Chemistry - Quality Control								
LCS (7020715-BS1)					Prepared: 23-Feb-07 Analyzed: 26-Feb-07			
Phosphorus, Total					89.8	80-120		
Wet Chemistry - Quality Control								
LCS Dup (7020715-BSD1)					Prepared: 23-Feb-07 Analyzed: 26-Feb-07			
Phosphorus, Total					102	80-120	12.7	20
Wet Chemistry - Quality Control								
Matrix Spike (7020715-MS1)					Source: Q001355-02 Prepared: 23-Feb-07 Analyzed: 26-Feb-07			
Phosphorus, Total					77.2	80-120		
Wet Chemistry - Quality Control								
Matrix Spike Dup (7020715-MSD1)					Source: Q001355-02 Prepared: 23-Feb-07 Analyzed: 26-Feb-07			
Phosphorus, Total					81.7	80-120	5.66	20
Wet Chemistry - Quality Control								
Blank (7020737-BLK1)					Prepared & Analyzed: 26-Feb-07			
Solids, Total Dissolved	8.9	U	8.9	10	mg/L			
Wet Chemistry - Quality Control								
LCS (7020737-BS1)					Prepared & Analyzed: 26-Feb-07			
Solids, Total Dissolved					100	80-120		
Wet Chemistry - Quality Control								
LCS Dup (7020737-BSD1)					Prepared & Analyzed: 26-Feb-07			
Solids, Total Dissolved					104	80-120	3.92	30
Wet Chemistry - Quality Control								
Duplicate (7020737-DUP1)					Source: Q001376-05 Prepared & Analyzed: 26-Feb-07			
Solids, Total Dissolved	2040		8.9	10	mg/L		1.98	20
Wet Chemistry - Quality Control								
Blank (7020745-BLK1)					Prepared & Analyzed: 26-Feb-07			
COD	8.4	U	8.4	10	mg/L			
Wet Chemistry - Quality Control								
LCS (7020745-BS1)					Prepared & Analyzed: 26-Feb-07			
COD					99.7	90-110		
Wet Chemistry - Quality Control								
LCS Dup (7020745-BSD1)					Prepared & Analyzed: 27-Feb-07			
COD					104	90-110	4.22	20
Wet Chemistry - Quality Control								
Matrix Spike (7020745-MS1)					Source: Q001359-01 Prepared & Analyzed: 26-Feb-07			
COD					58.0	90-110		
Wet Chemistry - Quality Control								
Matrix Spike Dup (7020745-MSD1)					Source: Q001359-01 Prepared & Analyzed: 26-Feb-07			
COD					64.0	90-110	9.84	20

Florida Certifications: E86349 & E86616 (Microbiology)

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
Wet Chemistry - Quality Control								
Blank (7020746-BLK1)					Prepared & Analyzed: 27-Feb-07			
Fluoride	0.054	U	0.054	0.20	mg/L			
Wet Chemistry - Quality Control								
LCS (7020746-BS1)					Prepared & Analyzed: 27-Feb-07			
Fluoride					96.6	90-110		
Wet Chemistry - Quality Control								
LCS Dup (7020746-BSD1)					Prepared & Analyzed: 27-Feb-07			
Fluoride					96.6	90-110	0.00	20
Wet Chemistry - Quality Control								
Matrix Spike (7020746-MS1)					Source: Q001279-01		Prepared & Analyzed: 27-Feb-07	
Fluoride					98.4	90-110		
Wet Chemistry - Quality Control								
Matrix Spike Dup (7020746-MSD1)					Source: Q001279-01		Prepared & Analyzed: 27-Feb-07	
Fluoride					98.4	90-110	0.00	20
Wet Chemistry - Quality Control								
LCS (7020764-BS1)					Prepared & Analyzed: 27-Feb-07			
Conductivity					102	90-110		
Wet Chemistry - Quality Control								
LCS Dup (7020764-BSD1)					Prepared & Analyzed: 27-Feb-07			
Conductivity					102	90-110	0.00	20
Wet Chemistry - Quality Control								
Duplicate (7020764-DUPI)					Source: Q001359-01		Prepared & Analyzed: 27-Feb-07	
Conductivity	860		0.00	0.00	umhos/cm		0.349	20
Wet Chemistry - Quality Control								
Blank (7020797-BLK1)					Prepared & Analyzed: 23-Feb-07			
BOD	1.0	U	1.0	2.0	mg/L			
Wet Chemistry - Quality Control								
LCS (7020797-BS1)					Prepared & Analyzed: 23-Feb-07			
BOD					102	85-115		
Wet Chemistry - Quality Control								
LCS Dup (7020797-BSD1)					Prepared & Analyzed: 23-Feb-07			
BOD					97.0	85-115	4.58	20
Wet Chemistry - Quality Control								
Blank (7020810-BLK1)					Prepared & Analyzed: 23-Feb-07			
Nitrogen, Nitrite (as N)	0.021	U	0.021	0.50	mg/L			
Wet Chemistry - Quality Control								
LCS (7020810-BS1)					Prepared & Analyzed: 23-Feb-07			
Nitrogen, Nitrite (as N)					90.0	90-110		

Florida Certifications: E86349 & E86616 (Microbiology)

QUALITY CONTROL FOR :Q001359

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
Wet Chemistry - Quality Control								
LCS Dup (7020810-BSD1)					Prepared & Analyzed: 23-Feb-07			
Nitrogen, Nitrite (as N)					90.0	90-110	0.00	20
Wet Chemistry - Quality Control								
Blank (7030006-BLK1)					Prepared & Analyzed: 28-Feb-07			
Nitrogen, Kjeldahl, Total	0.091	U	0.091	0.25	mg/L			
Wet Chemistry - Quality Control								
LCS (7030006-BS1)					Prepared & Analyzed: 28-Feb-07			
Nitrogen, Kjeldahl, Total					110	90-110		
Wet Chemistry - Quality Control								
LCS Dup (7030006-BSD1)					Prepared & Analyzed: 28-Feb-07			
Nitrogen, Kjeldahl, Total					96.8	90-110	12.8	20
Wet Chemistry - Quality Control								
Matrix Spike (7030006-MS1)			Source: Q001357-01		Prepared & Analyzed: 28-Feb-07			
Nitrogen, Kjeldahl, Total					53.0	90-110		
Wet Chemistry - Quality Control								
Matrix Spike Dup (7030006-MSD1)			Source: Q001357-01		Prepared & Analyzed: 28-Feb-07			
Nitrogen, Kjeldahl, Total					128	90-110	82.9	20

NOTES AND DEFINITIONS

V	Indicates the analyte was detected in both the sample and the associated method blank. The value in the method blank is not subtracted from the associated samples.
U	Indicates the compound was analyzed for but not detected.
J	Estimated value. See accompanying case narrative for a complete description.
I	The reported value is between the laboratory method detection limit and the reporting limit.
#	Quality control recovered outside acceptance criteria.
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
DF	Dilution Factor
%REC	Percent Recovery
RPD	Relative Percent Difference

2001359

CHAIN OF CUSTODY RECORD

KSA KSA Environmental Laboratory, Inc.
 10200 USA Today Way - Miramar, Florida 33025
 Phone: (954) 431-4550 Fax: (954) 431-1988
 Work Order #: _____ of _____
 Page _____ of _____
 NELAC / FDOT #: E86349

Client Name: Miami Dade Water & Sewer Dept Phone: 305 259 8500
 Client Address: 850 SW 232 ST Site Location: SOUTH DISTRICT WWTTP

Project Contact: Clive Powell
 Project Number/Name: ANALYTICAL LAB SAMPLING
 Sampled By (Print): AL PAPER
 Sampler's Signature: [Signature]

SAMPLE ID	DATE	TIME	COLLECTED	ANALYSIS REQUESTED	MATRIX CODE	PRESERVATION CODE	LAB NO.
1				GENERAL TOXICITY			
2				GENERAL TOXICITY			
3				GENERAL TOXICITY			
4				GENERAL TOXICITY			
5				GENERAL TOXICITY			
6				GENERAL TOXICITY			
7				GENERAL TOXICITY			
8				GENERAL TOXICITY			
9				GENERAL TOXICITY			
10				GENERAL TOXICITY			
11				GENERAL TOXICITY			

Special Instructions & Comments:
 Enter Preservation code: ←

Requested by: Clive Powell Date Time: _____
 Collected by: [Signature] Date Time: _____
 Analyzed by: [Signature] Date Time: _____
 Approved by: [Signature] Date Time: _____



Carlos Alvarez, Mayor

April 29, 2008

Certified Mail: 7003 1680 0004 5547 8464
Return Receipt

- ADA Coordination
- Agenda Coordination
- Animal Services
- Art in Public Places
- Audit and Management Services
- Aviation
- Building
- Building Code Compliance
- Business Development
- Capital Improvements
- Citizens' Independent Transportation Trust
- Commission on Ethics and Public Trust
- Communications
- Community Action Agency
- Community & Economic Development
- Community Relations
- Consumer Services
- Corrections & Rehabilitation
- Cultural Affairs
- Elections
- Emergency Management
- Employee Relations
- Empowerment Trust
- Enterprise Technology Services
- Environmental Resources Management
- Fair Employment Practices
- Finance
- Fire Rescue
- General Services Administration
- Government Information Center
- Historic Preservation
- Homeless Trust
- Housing Agency
- Housing Finance Authority
- Human Services
- Independent Review Panel
- International Trade Consortium
- Juvenile Services
- Medical Examiner
- Metro-Miami Action Plan
- Metropolitan Planning Organization
- Park and Recreation
- Planning and Zoning
- Police
- Procurement Management
- Property Appraisal
- Public Library System
- Public Works
- Safe Neighborhood Parks
- Seaport
- Solid Waste Management
- Strategic Business Management
- Team Metro
- Transit
- Task Force on Urban Economic Revitalization
- Vizcaya Museum And Gardens
- Water & Sewer**

Mr. Joseph R. May, P.G.
UIC Program Manager
Florida Department of Environmental Protection
400 North Congress Avenue, Suite 200
West Palm Beach, Florida 33401

Ref: Miami-Dade Water and Sewer Department (MDWASD), South District Wastewater Treatment Plant (WWTP), Permits 61787-001-UO through 61787-013-UO, and 61787-014-UC through 61787-017-UC


Dear Mr. May:

In accordance FAC 62-550, specific condition 3.k of the referenced operation permits, and specific condition 6.l of the referenced construction permits, attached please find the 2008 sampling results for the annual wastestream analysis of primary, secondary drinking water standards, and minimum criteria.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me at (786) 552-8116 or Richard M. O'Rourke at (786) 552-8123, if there are any questions regarding this submittal.

Sincerely,


Vicente E. Arrebola, P.E.
Assistant Director, Wastewater

VEA/RMO/abs

c: T. Brown, FDEP/SED

Attachment: South District WWTP – 2008 Annual Wastestream Analysis Sampling Results

Delivering Excellence Every Day



Genapure™

February 29, 2008

Clive Powell
Miami Dade Water & Sewer
8650 SW 232 Street
Miami, FL 33190

Project: Annual Sampling

Log #: L246684

Case Narrative:

These samples were originally received on 02/07/08 from samples collected on 02/07/08. No variances were noted upon receipt. Results for those analysis follow in the analytical report.

Two report formats were submitted with this report. The Genapure Standard report format which include MDL & PQL, and the Florida DW DEP format the includes MCL and MDL.

Observed Discrepancies:

All analysis passed QA/QC protocol. Dilutions were performed on certain analysis due to high levels of target analytes, to get the concentration within the calibration range of the instrument. Some analytes had high concentrations of other non-target analytes, causing a dilution to be performed.

Sample (-1) was qualified with a "V" due to hit in the method blank for the following analysis: Antimony at 0.00101 mg/l, Copper at 0.00517 mg/l, and TDS at 9.0 mg/l.

Respectfully submitted,
Maria Pacheco
Project Manager
Genapure Analytical Services Inc.

3231 NW 7th Ave, Boca Raton, FL 33431

ANALYTICAL RESULTS
Printed: 02/29/08 07:37pm

ATTN: CLIVE POWELL
MIAMI-DADE WATER & SEWER
SOUTH DISTRICT LABORATORY
8950 SW 232 ST.
MIAMI, FL 33170

Project No: 002446, MIAMI-DADE WATER & SEWER
Job Name: ANNUAL SAMPLING
Job Id:

P.O. No: 6724

Inv. No: 207848

Collected by: Customer Sampled

Laboratory Sample #	Client Sample #
---------------------	-----------------

L246684-1	TRIP BLANK
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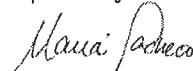
L246684-2	COMBINED EFFL
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All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below MDL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-
exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL
and PQL;
Lab certification IDs: FLD0H/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ
FL014; PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.
EPA 18 is a non-NELAC certifiable parameter.

02-29-08 19:36 This report is a revision of report number 666380

Genapure Analytical Services, Inc. 3231 NW 7th Avenue Boca Raton, FL 33431 (888)862-5227

Respectfully submitted,



Maria Pacheco
Project Manager

ANALYTICAL RESULTS

Printed: 02/29/08 07:37pm

Project No: 002446, MIAMI-DADE WATER & SEWER

P.O. No: 6724

Inv. No: 207848

Job Name: ANNUAL SAMPLING

Job id:

Sample Number L246684-1
 Sample Description TRIP BLANK
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
 Sampled by Customer Sampled
 Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
Volatile Organic Compounds							
VINYL CHLORIDE	524.2	U ug/l	1	0.34	1.7	N/A	02/12 10:17 AJ
CHLOROETHANE	524.2	U ug/l	1	0.30	1.5	N/A	02/12 10:17 AJ
1,1-DICHLOROETHENE	524.2	U ug/l	1	0.27	1.4	N/A	02/12 10:17 AJ
METHYLENE CHLORIDE	524.2	0.470 I ug/l	1	0.40	2.0	N/A	02/12 10:17 AJ
TRANS-1,2-DICHLOROETHENE	524.2	U ug/l	1	0.19	0.95	N/A	02/12 10:17 AJ
CIS-1,2-DICHLOROETHENE	524.2	U ug/l	1	0.17	0.85	N/A	02/12 10:17 AJ
CHLOROFORM	524.2	U ug/l	1	0.28	1.4	N/A	02/12 10:17 AJ
1,2-DICHLOROETHANE	524.2	U ug/l	1	0.18	0.90	N/A	02/12 10:17 AJ
1,1,1-TRICHLOROETHANE	524.2	U ug/l	1	0.10	0.50	N/A	02/12 10:17 AJ
CARBON TETRACHLORIDE	524.2	U ug/l	1	0.11	0.55	N/A	02/12 10:17 AJ
BENZENE	524.2	U ug/l	1	0.10	0.50	N/A	02/12 10:17 AJ
1,2-DICHLOROPROPANE	524.2	U ug/l	1	0.14	0.70	N/A	02/12 10:17 AJ
TRICHLOROETHENE	524.2	U ug/l	1	0.23	1.2	N/A	02/12 10:17 AJ
BROMODICHLOROMETHANE	524.2	U ug/l	1	0.16	0.80	N/A	02/12 10:17 AJ
1,1,2-TRICHLOROETHANE	524.2	U ug/l	1	0.42	2.1	N/A	02/12 10:17 AJ
TOLUENE	524.2	U ug/l	1	0.10	0.50	N/A	02/12 10:17 AJ
DIBROMOCHLOROMETHANE	524.2	U ug/l	1	0.25	1.3	N/A	02/12 10:17 AJ
TETRACHLOROETHENE	524.2	U ug/l	1	0.27	1.4	N/A	02/12 10:17 AJ
CHLOROBENZENE	524.2	U ug/l	1	0.30	1.5	N/A	02/12 10:17 AJ
ETHYL BENZENE	524.2	U ug/l	1	0.080	0.40	N/A	02/12 10:17 AJ
M&P-XYLENES	524.2	U ug/l	1	0.31	1.6	N/A	02/12 10:17 AJ
BROMOFORM	524.2	U ug/l	1	0.20	1.0	N/A	02/12 10:17 AJ
TOTAL THM	524.2	U ug/l	1	0.89	4.5	N/A	02/12 10:17 AJ
STYRENE	524.2	U ug/l	1	0.15	0.75	N/A	02/12 10:17 AJ
O-XYLENE	524.2	U ug/l	1	0.10	0.50	N/A	02/12 10:17 AJ

ANALYTICAL RESULTS

Printed: 02/29/08 07:37pm

Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id: [REDACTED]

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-1
 Sample Description TRIP BLANK
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
 Sampled by Customer Sampled

Parameter	Method	Result	DIL	MDL	PQL	Prep Date,Time	Test Date, Time,Analyst
XYLENES (TOTAL)	524.2	U ug/1	1	0.41	2.1	N/A	02/12 10:17 AJ
1,4-DICHLOROBENZENE	524.2	U ug/1	1	0.10	0.50	N/A	02/12 10:17 AJ
1,2-DICHLOROBENZENE	524.2	U ug/1	1	0.10	0.50	N/A	02/12 10:17 AJ
1,2,4-TRICHLOROBENZENE	524.2	U ug/1	1	0.16	0.80	N/A	02/12 10:17 AJ
SURROGATES		% RECOVERY			% Recovery Limits		
BROMOFLUOROBENZENE (SURR)	524.2	97 %	1		70-130		02/12 10:17 AJ
1,2-DICHLOROBENZENE-D4	524.2	90 %	1		70-130		02/12 10:17 AJ
EDB/DBCP BY GC [REDACTED]							
1,2-DIBROMOETHANE	504	U ug/1	1	0.0027	0.014	02/12 09:00	02/17 02:43 MR
1,2-DIBROMO-3-CHLOROPROPANE	504	U ug/1	1	0.0061	0.031	02/12 09:00	02/17 02:43 MR
SURROGATES		% RECOVERY			% Recovery Limits		
BROMOFLUOROBENZENE (SURR)	504	85 %	1		70-130	02/12 09:00	02/17 02:43 MR

ANALYTICAL RESULTS

Printed: 02/29/08 07:37pm

Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id:

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-2
 Sample Description COMBINED EFFL
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
 Sampled by Customer Sampled
 Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
Volatile Organic Compounds							
VINYL CHLORIDE	524.2	U ug/l	1	0.34	1.7	N/A	02/12 10:39 AJ
CHLOROETHANE	524.2	U ug/l	1	0.30	1.5	N/A	02/12 10:39 AJ
1,1-DICHLOROETHENE	524.2	U ug/l	1	0.27	1.4	N/A	02/12 10:39 AJ
METHYLENE CHLORIDE	524.2	U ug/l	1	0.40	2.0	N/A	02/12 10:39 AJ
TRANS-1,2-DICHLOROETHENE	524.2	U ug/l	1	0.19	0.95	N/A	02/12 10:39 AJ
CIS-1,2-DICHLOROETHENE	524.2	U ug/l	1	0.17	0.85	N/A	02/12 10:39 AJ
CHLOROFORM	524.2	1.14 ug/l	1	0.28	1.4	N/A	02/12 10:39 AJ
1,2-DICHLOROETHANE	524.2	U ug/l	1	0.18	0.90	N/A	02/12 10:39 AJ
1,1,1-TRICHLOROETHANE	524.2	U ug/l	1	0.10	0.50	N/A	02/12 10:39 AJ
CARBON TETRACHLORIDE	524.2	U ug/l	1	0.11	0.55	N/A	02/12 10:39 AJ
BENZENE	524.2	U ug/l	1	0.10	0.50	N/A	02/12 10:39 AJ
1,2-DICHLOROPROPANE	524.2	U ug/l	1	0.14	0.70	N/A	02/12 10:39 AJ
TRICHLOROETHENE	524.2	U ug/l	1	0.23	1.2	N/A	02/12 10:39 AJ
BROMODICHLOROMETHANE	524.2	U ug/l	1	0.16	0.80	N/A	02/12 10:39 AJ
1,1,2-TRICHLOROETHANE	524.2	U ug/l	1	0.42	2.1	N/A	02/12 10:39 AJ
TOLUENE	524.2	0.120 I ug/l	1	0.10	0.50	N/A	02/12 10:39 AJ
DIBROMOCHLOROMETHANE	524.2	U ug/l	1	0.25	1.3	N/A	02/12 10:39 AJ
TETRACHLOROETHENE	524.2	0.280 I ug/l	1	0.27	1.4	N/A	02/12 10:39 AJ
CHLOROBENZENE	524.2	U ug/l	1	0.30	1.5	N/A	02/12 10:39 AJ
ETHYL BENZENE	524.2	U ug/l	1	0.080	0.40	N/A	02/12 10:39 AJ
M&P-XYLENES	524.2	U ug/l	1	0.31	1.6	N/A	02/12 10:39 AJ
BROMOFORM	524.2	U ug/l	1	0.20	1.0	N/A	02/12 10:39 AJ
TOTAL THM	524.2	1.14 I ug/l	1	0.89	4.5	N/A	02/12 10:39 AJ
STYRENE	524.2	U ug/l	1	0.15	0.75	N/A	02/12 10:39 AJ
O-XYLENE	524.2	U ug/l	1	0.10	0.50	N/A	02/12 10:39 AJ

ANALYTICAL RESULTS

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Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id: [REDACTED]

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-2
 Sample Description COMBINED EFFL
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
 Sampled by Customer Sampled

Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
XYLENES (TOTAL)	524.2	U ug/l	1	0.41	2.1	N/A	02/12 10:39 AJ
1,4-DICHLOROBENZENE	524.2	1.75 ug/l	1	0.10	0.50	N/A	02/12 10:39 AJ
1,2-DICHLOROBENZENE	524.2	U ug/l	1	0.10	0.50	N/A	02/12 10:39 AJ
1,2,4-TRICHLOROBENZENE	524.2	U ug/l	1	0.16	0.80	N/A	02/12 10:39 AJ
SURROGATES		% RECOVERY		% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	524.2	101 %	1		70-130		02/12 10:39 AJ
1,2-DICHLOROBENZENE-D4	524.2	93 %	1		70-130		02/12 10:39 AJ
CHLOROMETHANE	624	U ug/l	1	0.28	1.4	N/A	02/16 05:35 MD
VINYL CHLORIDE	624	U ug/l	1	0.12	0.60	N/A	02/16 05:35 MD
BROMOMETHANE	624	U ug/l	1	0.63	3.2	N/A	02/16 05:35 MD
CHLOROETHANE	624	U ug/l	1	0.71	3.6	N/A	02/16 05:35 MD
ACROLEIN	624	U ug/l	1	1.1	5.6	N/A	02/16 05:35 MD
1,1-DICHLOROETHENE	624	U ug/l	1	0.23	1.2	N/A	02/16 05:35 MD
ACRYLONITRILE	624	U ug/l	1	0.95	4.8	N/A	02/16 05:35 MD
METHYLENE CHLORIDE	624	U ug/l	1	0.24	1.2	N/A	02/16 05:35 MD
TRANS-1,2-DICHLOROETHENE	624	U ug/l	1	0.27	1.4	N/A	02/16 05:35 MD
1,1-DICHLOROETHANE	624	U ug/l	1	0.19	0.95	N/A	02/16 05:35 MD
CHLOROFORM	624	0.830 I ug/l	1	0.18	0.90	N/A	02/16 05:35 MD
1,2-DICHLOROETHANE	624	U ug/l	1	0.12	0.60	N/A	02/16 05:35 MD
1,1,1-TRICHLOROETHANE	624	U ug/l	1	0.15	0.75	N/A	02/16 05:35 MD
CARBON TETRACHLORIDE	624	U ug/l	1	0.19	0.95	N/A	02/16 05:35 MD
BENZENE	624	U ug/l	1	0.31	1.6	N/A	02/16 05:35 MD
1,2-DICHLOROPROPANE	624	U ug/l	1	0.25	1.3	N/A	02/16 05:35 MD
TRICHLOROETHENE	624	U ug/l	1	0.22	1.1	N/A	02/16 05:35 MD
BROMODICHLOROMETHANE	624	U ug/l	1	0.14	0.70	N/A	02/16 05:35 MD
2-CHLOROETHYL VINYL ETHER	624	U ug/l	1	5.5	28	N/A	02/16 05:35 MD

ANALYTICAL RESULTS

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 Job Name: ANNUAL SAMPLING
 Job Id: [REDACTED]

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-2
 Sample Description COMBINED EFFL
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
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Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
CIS-1,3-DICHLOROPROPENE	624	U ug/l	1	0.19	0.95	N/A	02/16 05:35 MD
TRANS-1,3-DICHLOROPROPENE	624	U ug/l	1	0.19	0.95	N/A	02/16 05:35 MD
1,1,2-TRICHLOROETHANE	624	U ug/l	1	0.24	1.2	N/A	02/16 05:35 MD
TOLUENE	624	U ug/l	1	0.28	1.4	N/A	02/16 05:35 MD
DIBROMOCHLOROMETHANE	624	U ug/l	1	0.20	1.0	N/A	02/16 05:35 MD
TETRACHLOROETHENE	624	U ug/l	1	0.33	1.7	N/A	02/16 05:35 MD
CHLOROBENZENE	624	U ug/l	1	0.31	1.6	N/A	02/16 05:35 MD
ETHYL BENZENE	624	U ug/l	1	0.31	1.6	N/A	02/16 05:35 MD
M&P XYLENES	624	U ug/l	1	0.77	3.9	N/A	02/16 05:35 MD
BROMOFORM	624	U ug/l	1	0.27	1.4	N/A	02/16 05:35 MD
O-XYLENE	624	U ug/l	1	0.38	1.9	N/A	02/16 05:35 MD
XYLENES (TOTAL)	624	U ug/l	1	1.2	5.8	N/A	02/16 05:35 MD
1,1,2,2-TETRACHLOROETHANE	624	U ug/l	1	0.16	0.80	N/A	02/16 05:35 MD
SURROGATES		% RECOVERY		% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	624	101 %	1		69-134		02/16 05:35 MD
TOLUENE-D8 (SURR)	624	101 %	1		63-127		02/16 05:35 MD
4-BROMOFLUOROBENZENE (SURR)	624	101 %	1		64-130		02/16 05:35 MD
Semivolatile Compounds							
N-NITROSODIMETHYLAMINE	625	U ug/l	1	1.0	5.2	02/08 19:20	02/11 21:54 LN
PHENOL	625	U ug/l	1	0.41	2.0	02/08 19:20	02/11 21:54 LN
BIS(2-CHLOROETHYL)ETHER	625	U ug/l	1	0.46	2.3	02/08 19:20	02/11 21:54 LN
2-CHLOROPHENOL	625	U ug/l	1	0.22	1.1	02/08 19:20	02/11 21:54 LN
1,3-DICHLOROBENZENE	625	U ug/l	1	0.35	1.8	02/08 19:20	02/11 21:54 LN
1,4-DICHLOROBENZENE	625	0.821 I ug/l	1	0.28	1.4	02/08 19:20	02/11 21:54 LN
1,2-DICHLOROBENZENE	625	U ug/l	1	0.34	1.7	02/08 19:20	02/11 21:54 LN
BIS(2-CHLOROISOPROPYL)ETHER	625	U ug/l	1	0.34	1.7	02/08 19:20	02/11 21:54 LN
N-NITroso-DI-N-PROPYLAMINE	625	U ug/l	1	0.33	1.6	02/08 19:20	02/11 21:54 LN

ANALYTICAL RESULTS

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Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id:

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-2
 Sample Description COMBINED EFFL
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
 Sampled by Customer Sampled

Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
HEXACHLOROETHANE	625	U ug/l	1	0.36	1.8	02/08 19:20	02/11 21:54 LN
NITROBENZENE	625	U ug/l	1	0.31	1.5	02/08 19:20	02/11 21:54 LN
ISOPHORONE	625	U ug/l	1	0.34	1.7	02/08 19:20	02/11 21:54 LN
2-NITROPHENOL	625	U ug/l	1	0.24	1.2	02/08 19:20	02/11 21:54 LN
2,4-DIMETHYLPHENOL	625	U ug/l	1	0.40	2.0	02/08 19:20	02/11 21:54 LN
BIS(2-CHLOROETHOXY)METHANE	625	U ug/l	1	0.32	1.6	02/08 19:20	02/11 21:54 LN
2,4-DICHLOROPHENOL	625	U ug/l	1	0.43	2.2	02/08 19:20	02/11 21:54 LN
1,2,4-TRICHLOROBENZENE	625	U ug/l	1	0.23	1.1	02/08 19:20	02/11 21:54 LN
NAPHTHALENE	625	U ug/l	1	0.34	1.7	02/08 19:20	02/11 21:54 LN
HEXACHLOROBUTADIENE	625	U ug/l	1	0.45	2.2	02/08 19:20	02/11 21:54 LN
4-CHLORO-3-METHYLPHENOL	625	U ug/l	1	0.22	1.1	02/08 19:20	02/11 21:54 LN
HEXACHLOROCYCLOPENTADIENE	625	U ug/l	1	0.74	3.7	02/08 19:20	02/11 21:54 LN
2,4,6-TRICHLOROPHENOL	625	U ug/l	1	0.27	1.4	02/08 19:20	02/11 21:54 LN
2-CHLORONAPHTHALENE	625	U ug/l	1	0.32	1.6	02/08 19:20	02/11 21:54 LN
DIMETHYLPHTHALATE	625	U ug/l	1	0.31	1.5	02/08 19:20	02/11 21:54 LN
2,6-DINITROTOLUENE	625	U ug/l	1	0.31	1.6	02/08 19:20	02/11 21:54 LN
ACENAPHTHYLENE	625	U ug/l	1	0.26	1.3	02/08 19:20	02/11 21:54 LN
ACENAPHTHENE	625	U ug/l	1	0.33	1.6	02/08 19:20	02/11 21:54 LN
2,4-DINITROPHENOL	625	U ug/l	1	1.4	7.0	02/08 19:20	02/11 21:54 LN
2,4-DINITROTOLUENE	625	U ug/l	1	0.31	1.6	02/08 19:20	02/11 21:54 LN
4-NITROPHENOL	625	U ug/l	1	0.79	3.9	02/08 19:20	02/11 21:54 LN
DIETHYLPHTHALATE	625	U ug/l	1	0.33	1.6	02/08 19:20	02/11 21:54 LN
FLUORENE	625	U ug/l	1	0.27	1.3	02/08 19:20	02/11 21:54 LN
4-CHLOROPHENYL-PHENYLETHER	625	U ug/l	1	0.45	2.2	02/08 19:20	02/11 21:54 LN
4,6-DINITRO-2-METHYLPHENOL	625	U ug/l	1	0.35	1.8	02/08 19:20	02/11 21:54 LN
N-NITROSODIPHENYLAMINE	625	U ug/l	1	0.31	1.6	02/08 19:20	02/11 21:54 LN

ANALYTICAL RESULTS

Printed: 02/29/08 07:37pm

Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id:

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-2
 Sample Description COMBINED EFFL
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
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Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
1,2-DIPHENYLHYDRAZINE	3510/8270	U ug/l	1	0.23	1.2	02/08 19:20	02/11 21:54 LN
4-BROMOPHENYL-PHENYLETHER	625	U ug/l	1	0.27	1.4	02/08 19:20	02/11 21:54 LN
HEXACHLOROBENZENE	625	U ug/l	1	0.32	1.6	02/08 19:20	02/11 21:54 LN
PENTACHLOROPHENOL	625	U ug/l	1	0.67	3.4	02/08 19:20	02/11 21:54 LN
PHENANTHRENE	625	U ug/l	1	0.29	1.4	02/08 19:20	02/11 21:54 LN
ANTHRACENE	625	U ug/l	1	0.25	1.2	02/08 19:20	02/11 21:54 LN
DI-N-BUTYLPHTHALATE	625	U ug/l	1	0.21	1.1	02/08 19:20	02/11 21:54 LN
FLUORANTHENE	625	U ug/l	1	0.20	1.0	02/08 19:20	02/11 21:54 LN
BENZIDINE	625	U ug/l	1	9.7	49	02/08 19:20	02/11 21:54 LN
PYRENE	625	U ug/l	1	0.47	2.3	02/08 19:20	02/11 21:54 LN
BUTYLBENZYLPHTHALATE	625	U ug/l	1	0.36	1.8	02/08 19:20	02/11 21:54 LN
BENZO(A)ANTHRACENE	625	U ug/l	1	0.27	1.4	02/08 19:20	02/11 21:54 LN
3,3'-DICHLOROBENZIDINE	625	U ug/l	1	0.31	1.5	02/08 19:20	02/11 21:54 LN
CHRYSENE	625	U ug/l	1	0.28	1.4	02/08 19:20	02/11 21:54 LN
BIS(2-ETHYLHEXYL)PHTHALATE	625	0.442 I ug/l	1	0.20	1.0	02/08 19:20	02/11 21:54 LN
DI-N-OCTYLPHTHALATE	625	U ug/l	1	0.28	1.4	02/08 19:20	02/11 21:54 LN
BENZO(B)FLUORANTHENE	625	U ug/l	1	0.25	1.2	02/08 19:20	02/11 21:54 LN
BENZO(K)FLUORANTHENE	625	U ug/l	1	0.39	1.9	02/08 19:20	02/11 21:54 LN
BENZO(A)PYRENE	625	U ug/l	1	0.31	1.5	02/08 19:20	02/11 21:54 LN
INDENO(1,2,3-CD)PYRENE	625	U ug/l	1	0.26	1.3	02/08 19:20	02/11 21:54 LN
DIBENZ(A,H)ANTHRACENE	625	U ug/l	1	0.55	2.8	02/08 19:20	02/11 21:54 LN
BENZO(G,H,I)PERYLENE	625	U ug/l	1	0.28	1.4	02/08 19:20	02/11 21:54 LN
SURROGATES		% RECOVERY		% Recovery Limits			
NITROBENZENE-D5 (SURR)	625	55 %	1		39-117	02/08 19:20	02/11 21:54 LN
2-FLUOROBIPHENYL (SURR)	625	63 %	1		40-112	02/08 19:20	02/11 21:54 LN
TERPHENYL-D14 (SURR)	625	92 %	1		31-146	02/08 19:20	02/11 21:54 LN

ANALYTICAL RESULTS

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Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id: [REDACTED]

P.O. No: 6724

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Sample Number L246684-2
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 Samp. Date/Time/Temp 02/07/08 00:00am NA C
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Parameter	Method	Result	DIL	MDL	PQL	Prep Date,Time	Test Date, Time,Analyst
PHENOL-D5 (SURR)	625	22 %	1		14-48	02/08 19:20	02/11 21:54 LN
2-FLUOROPHENOL (SURR)	625	29 %	1		24-64	02/08 19:20	02/11 21:54 LN
2,4,6-TRIBROMOPHENOL (SURR)	625	86 %	1		52-121	02/08 19:20	02/11 21:54 LN
Dioxin Scan by 625 2,3,7,8-TCDD (DIOXIN)	625	U* mg/l	1			02/08 19:20	02/11 21:54 LN
Metals Analysis SILVER	200.7	U mg/l	1	0.0010	0.0050	02/08 00:00	02/11 21:46 KO
ALUMINUM	200.7	0.0672 I mg/l	1	0.038	0.19	02/08 00:00	02/11 21:46 KO
ARSENIC	200.8	0.00120 I mg/l	1	0.00090	0.0045	02/08 00:00	02/11 17:20 NR
BARIUM	200.8	0.00760 mg/l	1	0.00090	0.0045	02/08 00:00	02/11 17:20 NR
BERYLLIUM	200.8	U mg/l	1	0.00010	0.00050	02/08 00:00	02/12 14:42 NR
CADMIUM	200.7	U mg/l	1	0.00037	0.0019	02/08 00:00	02/11 21:46 KO
CHROMIUM	200.7	U mg/l	1	0.00099	0.0050	02/08 00:00	02/11 21:46 KO
COPPER	200.7	0.00684 IV mg/l	1	0.0050	0.025	02/08 00:00	02/11 21:46 KO
IRON	200.7	U mg/l	1	0.020	0.10	02/08 00:00	02/11 21:46 KO
MANGANESE	200.8	0.0112 V mg/l	1	0.00040	0.0020	02/08 00:00	02/11 17:20 NR
SODIUM	200.7	81.6 mg/l	1	0.075	0.38	02/08 00:00	02/11 21:46 KO
NICKEL	200.7	0.00141 I mg/l	1	0.0011	0.0055	02/08 00:00	02/11 21:46 KO
LEAD	200.8	U mg/l	1	0.00010	0.00050	02/08 00:00	02/11 17:20 NR
ANTIMONY	200.8	0.000800 I mg/l	1	0.00070	0.0035	02/08 00:00	02/12 14:42 NR
SELENIUM	200.8	U mg/l	1	0.00090	0.0045	02/08 00:00	02/11 17:20 NR
THALLIUM	200.8	U mg/l	1	0.00040	0.0020	02/08 00:00	02/11 17:20 NR
ZINC	200.7	0.0171 I mg/l	1	0.0052	0.026	02/08 00:00	02/11 21:46 KO
Mercury Analysis MERCURY	245.1	0.000103 I mg/l	1	0.000065	0.00033	02/09 00:00	02/09 14:37 TB
EDB/DBCP BY GC 1,2-DIBROMOETHANE	504.1	U ug/l	1	0.0022	0.011	02/12 09:00	02/17 03:06 MR
1,2-DIBROMO-3-CHLOROPROPANE	504.1	U ug/l	1	0.0074	0.037	02/12 09:00	02/17 03:06 MR

ANALYTICAL RESULTS

Printed: 02/29/08 07:37pm

Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id: [REDACTED]

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-2
 Sample Description COMBINED EFFL
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
 Sampled by Customer Sampled

Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
SURROGATES		% RECOVERY		% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	504.1	87 %	1		70-130	02/12 09:00	02/17 03:06 MR
Organochlorine Pesticides/PCBs							
ALPHA-BHC	3510/608	U ug/l	1	0.000300	0.00150	02/09 00:00	02/12 08:54 BL
GAMMA-BHC (LINDANE)	3510/608	U ug/l	1	0.000300	0.00150	02/09 00:00	02/12 08:54 BL
BETA-BHC	3510/608	U ug/l	1	0.00140	0.00700	02/09 00:00	02/12 08:54 BL
HEPTACHLOR	3510/608	0.00700 I* ug/l	1	0.00710	0.0355	02/09 00:00	02/12 08:54 BL
DELTA-BHC	3510/608	0.00400 I* ug/l	1	0.00410	0.0205	02/09 00:00	02/12 08:54 BL
ALDRIN	3510/608	0.00400 I* ug/l	1	0.00410	0.0205	02/09 00:00	02/12 08:54 BL
HEPTACHLOR EPOXIDE	3510/608	U ug/l	1	0.000300	0.00150	02/09 00:00	02/12 08:54 BL
GAMMA-CHLORDANE	3510/608	U ug/l	1	0.000400	0.00200	02/09 00:00	02/12 08:54 BL
ALPHA-CHLORDANE	3510/608	U ug/l	1	0.000400	0.00200	02/09 00:00	02/12 08:54 BL
ENDOSULFAN I	3510/608	U ug/l	1	0.000300	0.00150	02/09 00:00	02/12 08:54 BL
4,4'-DDE	3510/608	U ug/l	1	0.000400	0.00200	02/09 00:00	02/12 08:54 BL
DIELDRIN	3510/608	U ug/l	1	0.000500	0.00250	02/09 00:00	02/12 08:54 BL
ENDRIN	3510/608	U ug/l	1	0.000600	0.00300	02/09 00:00	02/12 08:54 BL
4,4'-DDD	3510/608	U ug/l	1	0.000500	0.00250	02/09 00:00	02/12 08:54 BL
ENDOSULFAN II	3510/608	U ug/l	1	0.000500	0.00250	02/09 00:00	02/12 08:54 BL
4,4'-DDT	3510/608	U ug/l	1	0.000600	0.00300	02/09 00:00	02/12 08:54 BL
ENDRIN ALDEHYDE	3510/608	U ug/l	1	0.000500	0.00250	02/09 00:00	02/12 08:54 BL
ENDOSULFAN SULFATE	3510/608	U ug/l	1	0.000400	0.00200	02/09 00:00	02/12 08:54 BL
METHOXYCHLOR	3510/608	U ug/l	1	0.00150	0.00750	02/09 00:00	02/12 08:54 BL
ENDRIN KETONE	3510/608	U ug/l	1	0.000600	0.00300	02/09 00:00	02/12 08:54 BL
TOXAPHENE	3510/608	U ug/l	1	0.900	4.50	02/09 00:00	02/12 08:54 BL
CHLORDANE	3510/608	U ug/l	1	0.0755	0.378	02/09 00:00	02/12 08:54 BL
PCB 1016	3510/608	U ug/l	1	0.170	0.850	02/09 00:00	02/12 08:54 BL
PCB 1221	3510/608	U ug/l	1	0.200	1.00	02/09 00:00	02/12 08:54 BL

ANALYTICAL RESULTS

Printed: 02/29/08 07:37pm

Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id: [REDACTED]

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-2
 Sample Description COMBINED EFFL
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
 Sampled by Customer Sampled

Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
PCB 1232	3510/608	U ug/l	1	0.190	0.950	02/09 00:00	02/12 08:54 BL
PCB 1242	3510/608	U ug/l	1	0.160	0.800	02/09 00:00	02/12 08:54 BL
PCB 1248	3510/608	U ug/l	1	0.290	1.45	02/09 00:00	02/12 08:54 BL
PCB 1254	3510/608	U ug/l	1	0.260	1.30	02/09 00:00	02/12 08:54 BL
PCB 1260	3510/608	U ug/l	1	0.120	0.600	02/09 00:00	02/12 08:54 BL
SURROGATES		% RECOVERY		% Recovery Limits			
2,4,5,6-TETRA-CHLORO-M-XYLENE	3510/608	81 %	1		32-137	02/09 00:00	02/12 08:54 BL
DECACHLOROBIPHENYL	3510/608	39 %	1		25-165	02/09 00:00	02/12 08:54 BL
Asbestos ASBESTOS WATER (E86772)	100.2	U MFL	1	0.18	0.90	N/A	02/11 17:00 SUB
Semivolatile Organic Compounds							
ALACHLOR (E83079)	508.1	U ug/l	1	0.014	0.070	02/15 10:00	02/16 09:55 SUB
ATRAZINE (E83079)	508.1	U ug/l	1	0.14	0.70	02/15 10:00	02/16 09:55 SUB
LINDANE (E83079)	508.1	U ug/l	1	0.0081	0.041	02/15 10:00	02/16 09:55 SUB
CHLORDANE (E83079)	508.1	U ug/l	1	0.059	0.30	02/15 10:00	02/16 09:55 SUB
ENDRIN (E83079)	508.1	U ug/l	1	0.0081	0.041	02/15 10:00	02/16 09:55 SUB
HEPTACHLOR (E83079)	508.1	U ug/l	1	0.026	0.13	02/15 10:00	02/16 09:55 SUB
HEPTACHLOR EPOXIDE (E83079)	508.1	U ug/l	1	0.0061	0.031	02/15 10:00	02/16 09:55 SUB
HEXACHLOROBENZENE (E83079)	508.1	U ug/l	1	0.0081	0.041	02/15 10:00	02/16 09:55 SUB
HEXACHLOROCYCLOPENTADIENE (E83079)	508.1	U ug/l	1	0.018	0.090	02/15 10:00	02/16 09:55 SUB
METHOXYCHLOR (E83079)	508.1	U ug/l	1	0.020	0.10	02/15 10:00	02/16 09:55 SUB
SIMAZINE (E83079)	508.1	U ug/l	1	0.13	0.65	02/15 10:00	02/16 09:55 SUB
TOXAPHENE (E83079)	508.1	U ug/l	1	0.23	1.2	02/15 10:00	02/16 09:55 SUB
PCB'S (E83079)	508.1	U ug/l	1	0.10	0.50	02/15 10:00	02/16 09:55 SUB
2,4-DICHLOROPHENOXYACETIC ACID (E83079)	515.3	U ug/l	2	0.11	0.55	02/13 10:00	02/21 15:01 SUB
DALAPON (E83079)	515.3	U ug/l	2	1.2	6.0	02/13 10:00	02/21 15:01 SUB
DINOSEB (E83079)	515.3	U ug/l	2	0.19	0.95	02/13 10:00	02/21 15:01 SUB

ANALYTICAL RESULTS

Printed: 02/29/08 07:37pm

Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id: [REDACTED]

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-2
 Sample Description COMBINED EFFL
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
 Sampled by Customer Sampled

Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
PENTACHLOROPHENOL (E83079)	515.3	U ug/l	2	0.0080	0.040	02/13 10:00	02/21 15:01 SUB
PICLORAM (E83079)	515.3	U ug/l	2	0.074	0.37	02/13 10:00	02/21 15:01 SUB
SILVEX, METHYL ESTER (E83079)	515.3	U ug/l	2	0.073	0.37	02/13 10:00	02/21 15:01 SUB
BENZO(A)PYRENE (E83079)	525.2	U ug/l	1	0.035	0.18	02/14 10:00	02/16 02:46 SUB
ADIPATE, DI(2-ETHYLHEXYL) (E83079)	525.2	U ug/l	1	0.23	1.2	02/14 10:00	02/16 02:46 SUB
PHTHALATE, DI(2-ETHYLHEXYL) (E83079)	525.2	1.1 I ug/l	1	0.50	2.5	02/14 10:00	02/16 02:46 SUB
OXAMYL(VYDATE) (E83079)	531.1	U ug/l	1	0.16	0.80	02/19 17:30	02/20 00:25 SUB
CARBOFURAN (E83079)	531.1	U ug/l	1	0.13	0.65	02/19 17:30	02/20 00:25 SUB
GLYPHOSATE (E83079)	547	U ug/l	1	0.99	5.0	02/13 09:30	02/13 16:12 SUB
ENDOTHALL (E83079)	548.1	U ug/l	1	7.6	38	02/12 10:30	02/16 00:22 SUB
DIQUAT (E83079)	549.2	U ug/l	1	0.29	1.5	02/13 16:30	02/18 21:56 SUB
Ion Chromatography FLUORIDE	300.0	U mg/l	10	0.30	1.5	N/A	02/08 22:32 WRD
FLUORIDE-II	300.0	U mg/l	10	0.30	1.5	N/A	02/08 22:32 WRD
NITRATE (AS N)	300.0	0.955 mg/l	10	0.052	0.26	N/A	02/08 22:32 WRD
NITRITE (AS N)	300.0	U mg/l	10	0.012	0.060	N/A	02/08 22:32 WRD
TOTAL NITRATE/NITRITE	300.0	0.955 I mg/l	10	0.12	0.59	N/A	02/08 22:32 WRD
SULFATE	300.0	47.1 mg/l	10	0.70	3.5	N/A	02/08 22:32 WRD
CYANIDE CYANIDE, TOTAL	335.4	U mg/l	1	0.0032	0.016	N/A	02/14 13:27 BD
Chemical Oxygen Demand CHEMICAL OXYGEN DEMAND	HACH 8000	43.0 mg/l	1	5.9	30	N/A	02/14 13:00 WRD
Color-Lab COLOR-LAB	SM2120B	20.0 pcu	1	5.0	25	N/A	02/08 07:50 ZE
Total Kjeldahl Nitrogen KJELDAHL NITROGEN	351.2	30.1 mg/l	10	2.2	11	N/A	02/13 00:00 SA
MBAS-LAS, molwt 340 DETERGENTS MBAS	SM5540C	U mg/l	1	0.10	0.50	N/A	02/08 00:00 JR
Organic Nitrogen ORGANIC NITROGEN	LAB CALC	11.0 mg/l	1	0.22	1.1	N/A	02/14 00:00

ANALYTICAL RESULTS

Printed: 02/29/08 07:37pm

Project No: 002446, MIAMI-DADE WATER & SEWER
 Job Name: ANNUAL SAMPLING
 Job Id: [REDACTED]

P.O. No: 6724

Inv. No: 207848

Sample Number L246684-2
 Sample Description COMBINED EFFL
 Samp. Date/Time/Temp 02/07/08 00:00am NA C
 Receive Date 02/07/08
 Sampled by Customer Sampled

Parameter	Method	Result	DIL	MDL	PQL	Prep Date, Time	Test Date, Time, Analyst
Ammonia AMMONIA	350.1	19.1 mg/l	100	4.2	21	N/A	02/14 00:00 SA
HEXANE EXTRACTABLES OIL & GREASE	1664	2.80 I mg/l	1	1.8	9.0	N/A	02/12 18:00 MKH
Odor ODOR	140.1	64.0 TON	1	1.0	5.0	N/A	02/08 10:00 WRD
pH PH LAB	SM4500HB	6.74 units	1	0.10	0.50	N/A	02/14 15:30 MT
Phosphorus PHOSPHORUS AS P	365.1	2.39 mg/l	5	0.012	0.060	N/A	02/14 00:00 SA
Total Dissolved Solids TOTAL DISSOLVED SOLIDS	160.1	378. V mg/l	1	7.0	35	N/A	02/13 09:30 TP

**** NOTES CONCERNING THE ABOVE SAMPLE ****

MB Sb 0.001010 mg/L

2,3,7,8-TCDD (DIOXIN) - Flag-The reported analyte is not NELAC certified

ALDRIN - NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

DELTA-BHC - NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

HEPTACHLOR - NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.



Genapure
Analytical Services, Inc.

3231 NW 7th Ave., Boca Raton, FL 33431

www.genapure.com

Log# L24684 T#S

Quote:

Page of

CHAIN OF CUSTODY RECORD

Company Name: M. Alan DadeLKD PO# 36724

Address: 8950 SW 232 ST

City: Miami State: FL Zip: 33190

Attn: GIVE PAUL Fax# 305598200

email: C.POVE@MIRAMON.BOC.FL.GOV

Project Name: Miami Sampling Proj

Sampler Signature: [Signature] Phone# 305598200

#	Sample Label (Orient ID)	Collect Date	Collect Time	Matrix Code	Field Filtered	Integrity OK (Y/N)	Total # of containers
1	MW-1	6/16/04	11:35	GW	X		1

Sample	Parameters	LAB ANALYSIS
TFC	COMPLETE PRIORITY POLLUTANTS OIL ? GREASE DIOXIN (SCAN)	
pH	PRIMARY DRINKING WATER STANDARD	
Press Codes	SECONDARY DRINKING WATER STANDARD MUNICIPAL MINIMUM CRITERIA	

SD	SW	WW	WV
Solid Waste	Waste Water	Waste Water	Waste Water
SO	Soil	ASW	Analyte Free Water
SE	Sediment	DW	Drinking Water
OL	Oil	SU	Surface Water
PE	Petroleum	AO	Aqueous
MA	Nonaqueous	AW	Aqueous Water
ML	Misc. Liquid	A	Air
CL	Chloro. Liquid	O	Other (Please Specify)
Esp.	Effluent		
INF	Influent		

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35
2	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35
3	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35
4	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35
5	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35
6	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35
7	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35
8	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35
9	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35
0	[Signature]	Genapure	6/16/04	11:35	[Signature]	Genapure	6/16/04	11:35

QA/QC Report Level: COC OK Initials: [Signature] Required State Certification: [Signature]

Short Hold: [Signature]

Lab Use Only: [Signature]

Remarks: 9:00
2 coolers

Genapure Telephone: 888-862-LABS or 561-447-7373 Fax: 888-456-4846 or 561-447-6136 Revision G101007

176805

PER SITE

THIS KIT CONSISTS OF THE FOLLOWING:

Test	Sample container	Preservative	Note
8270, 8031, 8032 C10	1- Amber ltr	None	
	1- 802	* NaOH	
Tphenols O/C	1- Amber ltr	H2SO4	
502, 507, 515	1- Amber ltr	Na2S2O3	
525	1- Amber ltr	GDHCl	
531	1 40 ML V	MANA + Na2S2O3	
504	1 40 ML vial	Na2S2O3	
524	1 40 ML vial	HCl + AA	

Total number of Coolers Sent 2

Additional Items sent by request

Other

If you have any questions, please call: 561-447-7373

PER SITE

THIS KIT CONSISTS OF THE FOLLOWING:

Test	Sample container	Preservative	Note
547/548	1-16 A G	NA25203	
549	1- Amber plastic	NA525003	
0.007	1- 8 oz A G	NONE	
NO3, NO2, CO2, NH4	1-16 oz plastic	NONE	
PH, F, NOX, SO4, TDS	16 oz plastic	NONE	
Absorb	1- Amber liter	NONE	
Metal	30 plastic	HNO3	

Total number of Coolers Sent 2

Additional Items sent by request

Other

If you have any questions, please call: 561-447-7373



April 15, 2009

Certified Mail: 7003 1680 0004 5547 9904
Return Receipt
CNN: 52755

Mr. Joseph R. May, P.G.
UIC Program Manager
Florida Department of Environmental Protection
400 North Congress Avenue, Suite 200
West Palm Beach, Florida 33401

Subject: Miami-Dade Water and Sewer Department (MDWASD), South District Wastewater Treatment Plant (WWTP), Permits 61787-001-UO through 61787-013-UO, and 61787-014-UC through 61787-017-UC

Dear Mr. May:

In accordance FAC 62-550, specific condition 3.k of the referenced operation permits, and specific condition 6.l of the referenced construction permits, attached please find the 2009 sampling results for the annual wastestream analysis of primary, secondary drinking water standards, and minimum criteria.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me at (786) 552-8116 or Richard M. O'Rourke at (786) 552-8123, if there are any questions regarding this submittal.

Sincerely,

Vicente E. Arrebola, P.E.
Assistant Director, Wastewater System Operations

VEA/RMO/ab

cc: T. Brown, FDEP/SED

Attachment: South District WWTP – 2009 Annual Wastestream Analysis Sampling Results

Delivering Excellence Every Day



Genapure Analytical Services, Inc.
3231 NW 7th Avenue
Boca Raton, FL 33431
Phone: (561) 447-7373
Fax: (561) 447-7374

March 20, 2009

CLIVE POWELL
MIAMI DADE WATER & SEWER
SOUTH DISTRICT LABORATORY
8950 SW 232 ST.
Miami, FL 33170

RE:
Workorder: 901842
Project: ANNUAL SAMPLING

Dear CLIVE POWELL:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, February 19, 2009. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Kimmel".

Mike Kimmel
mkimmel@genapure.com

FL-NELAC E86240

Statement of uncertainty is available upon request.
Enclosures

CERTIFICATE OF ANALYSIS

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without the written consent of Genapure Analytical Services, Inc..



Genapure Analytical Services, Inc.
3231 NW 7th Avenue
Boca Raton, FL 33431
Phone: (561) 447-7373
Fax: (561) 447-7374

SAMPLE SUMMARY

Lab ID	Sample ID	Collector	Matrix	Date Collected	Date Received
901842001	COMBINED EFFLUENT	CL	Wastewater	2/19/2009	2/19/2009

CERTIFICATE OF ANALYSIS

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without the written consent of Genapure Analytical Services, Inc..



ANALYTICAL RESULTS

Lab ID: **901842001** Date Received: 2/19/2009 Matrix: Wastewater
 Sample ID: **COMBINED EFFLUENT** Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
Wet Chemistry									
Analytical Method: SM 2540 C									
Total Dissolved Solids(TDS)	439		mg/L	35	7.00	1		2/23/2009 1:10:00 PM	ARH O
Preparation Method: EPA 351.2 Analytical Method: EPA 351.2									
Total Kjeldahl Nitrogen	28.5	V	mg/L-N	11	2.2	10	3/2/2009 6:00:00 PM	3/3/2009 11:50:00 AM	IGO N
Preparation Method: EPA 335.2 Analytical Method: EPA 335.4 Cyanide									
Total Cyanide	0.0059I		mg/L	0.02	0.0040	1	2/24/2009 10:22:00 AM	2/24/2009 1:57:00 PM	IGO N
Analytical Method: SM 2120B Color									
Color (True/Apparent)	40.0		pcu	25	5.0	1		2/20/2009 7:45:00 AM	ZES C
Analytical Method: EPA 350.1									
Ammonia	29.0	V	mg/L-N	0.435	0.087	5		2/20/2009 12:53:38 PM	IGO N
Analytical Method: EPA 300.0									
Chloride	118		mg/L	6.65	1.33	20		2/23/2009 4:50:00 PM	ADE S
Fluoride	0.300U		mg/L	1.5	0.300	10		2/20/2009 8:50:00 PM	ADE S
Nitrate	0.074U		mg/L-N	0.37	0.074	10		2/20/2009 8:50:00 PM	ADE S
Nitrite	0.053U		mg/L-N	0.265	0.053	10		2/20/2009 8:50:00 PM	ADE S
Sulfate	37.0		mg/L	3.775	0.755	10		2/20/2009 8:50:00 PM	ADE S
Preparation Method: BOD PREP Analytical Method: SM 5210B BOD									
BOD	5.63	J	mg/L	10	2.0	1	2/20/2009 7:30:00 PM	2/25/2009 9:45:00 AM	LGA R
Analytical Method: EPA 1664A									
Oil and Grease	13.5		mg/L	7	1.4	1		2/23/2009 4:00:00 PM	JSUL
Analytical Method: SM 2150 B									
Odor	16.0		TON	5	1	1		2/20/2009 7:10:00 AM	ZES C
Preparation Method: SM 5540 C Analytical Method: SM 5540 C									
Surfactants	0.114I		mg/L-LAS	0.2	0.040	1	2/20/2009 10:40:00 AM	2/20/2009 10:40:00 AM	ARH O
Analytical Method: EPA 365.1									

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ANALYTICAL RESULTS

 Lab ID: **901842001**
 Sample ID: **COMBINED EFFLUENT**

 Date Received: 2/19/2009 Matrix: Wastewater
 Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
Ortho Phosphate - P	2.38		mg/L-P	0.135	0.027	5		2/20/2009 1:36:56 PM	TAAL
Total Phosphorus	2.51		mg/L	0.11	0.022	5	2/24/2009 8:30:00 AM	2/24/2009 12:30:06 PM	ZES C

Analytical Method: SM4500H-B

pH	7.26		pH unit	0.5	0.100	1		2/24/2009 12:55:00 PM	ADE S
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Analytical Method: EPA 120.1

Specific Conductance	737		umhos/cm	10	2	1		2/25/2009 12:00:00 PM	ADE S
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EDB Analysis
Preparation Method: EPA 504.1 Analytical Method: EPA 504.1

1,2-Dibromo-3-chloropropane	0.00310U		ug/L	0.0155	0.00310	1	2/23/2009 5:00:00 PM	2/24/2009 12:22:00 AM	LREL
1,2-Dibromoethane	0.00640U		ug/L	0.032	0.00640	1	2/23/2009 5:00:00 PM	2/24/2009 12:22:00 AM	LREL
4-Bromofluorobenzene (S)	78		%		70-130	1	2/23/2009 5:00:00 PM	2/24/2009 12:22:00 AM	LREL

INORGANICS
Preparation Method: EPA 245.1 Analytical Method: EPA 245.1

Mercury	0.000056U		mg/L	0.00028	0.000056	1	2/23/2009 11:30:00 AM	2/23/2009 4:01:00 PM	ITUP
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Preparation Method: EPA 200.7 Analytical Method: EPA 200.7

Aluminum	0.046U		mg/L	0.23	0.046	1	2/20/2009 11:00:00 AM	2/23/2009 10:26:50 PM	TBU T
Chromium	0.00250I		mg/L	0.0055	0.0011	1	2/20/2009 11:00:00 AM	2/24/2009 2:34:52 PM	TBU T
Copper	0.0096U		mg/L	0.048	0.0096	1	2/20/2009 11:00:00 AM	2/24/2009 2:34:52 PM	TBU T
Iron	0.140		mg/L	0.225	0.045	1	2/20/2009 11:00:00 AM	2/23/2009 10:26:50 PM	TBU T
Nickel	0.0052U		mg/L	0.026	0.0052	1	2/20/2009 11:00:00 AM	2/23/2009 10:26:50 PM	TBU T
Silver	0.0016U		mg/L	0.008	0.0016	1	2/20/2009 11:00:00 AM	2/24/2009 2:34:52 PM	TBU T
Sodium	78.8		mg/L	0.37	0.074	1	2/20/2009 11:00:00 AM	2/24/2009 2:34:52 PM	TBU T
Zinc	0.0133I		mg/L	0.0265	0.0053	1	2/20/2009 11:00:00 AM	2/24/2009 2:34:52 PM	TBU T

Preparation Method: EPA 200.8 Analytical Method: EPA 200.8

Antimony	0.0010U		mg/L	0.005	0.0010	1	2/20/2009 11:00:00 AM	2/24/2009 12:20:00 AM	DFIR
Arsenic	0.0016U		mg/L	0.008	0.0016	1	2/20/2009 11:00:00 AM	2/24/2009 12:20:00 AM	DFIR
Barium	0.00782		mg/L	0.0075	0.0015	1	2/20/2009 11:00:00 AM	2/24/2009 12:20:00 AM	DFIR
Beryllium	0.00085U		mg/L	0.00425	0.00085	1	2/20/2009 11:00:00 AM	2/24/2009 12:20:00 AM	DFIR

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ANALYTICAL RESULTS

 Lab ID: **901842001**
 Sample ID: **COMBINED EFFLUENT**

 Date Received: 2/19/2009 Matrix: Wastewater
 Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
Cadmium	0.00011U		mg/L	0.0005	0.0001	1	2/20/2009 11:00:00 AM	2/24/2009 12:20:00 AM	DFIR
Lead	0.00075U		mg/L	0.0037	0.0007	1	2/20/2009 11:00:00 AM	2/24/2009 12:20:00 AM	DFIR
Manganese	0.0125		mg/L	0.0055	0.0011	1	2/20/2009 11:00:00 AM	2/24/2009 12:20:00 AM	DFIR
Selenium	0.00082U		mg/L	0.0041	0.0008	1	2/20/2009 11:00:00 AM	2/24/2009 12:20:00 AM	DFIR
Thallium	0.00027U		mg/L	0.0013	0.0002	1	2/20/2009 11:00:00 AM	2/24/2009 12:20:00 AM	DFIR

Analytical Method: 1613

2,3,7,8-TCDD	5.0U		ug/L	25	5.0	1		3/4/2009 6:50:00 PM	SUB
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Wet Chemistry - Subcontract
Analytical Method: EPA 100.2

Asbestos	0.18U	1	MFL	0.9	0.18	1		2/28/2009 1:00:00 PM	SUB
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Semivolatiles
Preparation Method: EPA 625
Analytical Method: EPA 625

1,2,4-Trichlorobenzene	0.23U		ug/L	1.15	0.23	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
1,2-Dichlorobenzene	0.34U		ug/L	1.7	0.34	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
1,2-Diphenylhydrazine	0.23U		ug/L	1.15	0.23	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
1,3-Dichlorobenzene	0.35U		ug/L	1.75	0.35	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
1,4-Dichlorobenzene	0.677U		ug/L	1.4	0.28	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2,4,6-Trichlorophenol	0.27U		ug/L	1.35	0.27	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2,4-Dichlorophenol	0.43U		ug/L	2.15	0.43	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2,4-Dinitrophenol	1.4U		ug/L	7	1.4	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2,4-Dinitrotoluene	0.31U		ug/L	1.55	0.31	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2,6-Dinitrotoluene	0.31U		ug/L	1.55	0.31	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2-Chloronaphthalene	0.32U		ug/L	1.6	0.32	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2-Chlorophenol	0.22U		ug/L	1.1	0.22	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2-Nitrophenol	0.24U		ug/L	1.2	0.24	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
3,3'-Dichlorobenzidine	0.31U		ug/L	1.55	0.31	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
4,6-Dinitro-2-methylphenol	0.35U		ug/L	1.75	0.35	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
4-Chloro-3-methylphenol	0.22U		ug/L	1.1	0.22	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C

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ANALYTICAL RESULTS

Lab ID: **901842001**
 Sample ID: **COMBINED EFFLUENT**

Date Received: 2/19/2009 Matrix: Wastewater
 Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
4-Chlorophenyl phenyl ether	0.45U		ug/L	2.25	0.45	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Acenaphthene	0.25U		ug/L	1.25	0.25	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Acenaphthylene	0.26U		ug/L	1.3	0.26	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Anthracene	0.25U		ug/L	1.25	0.25	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Benzidine	9.7U		ug/L	48.5	9.7	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Benzo(a)anthracene	0.27U		ug/L	1.35	0.27	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Benzo(a)pyrene	0.31U		ug/L	1.55	0.31	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Benzo(b)fluoranthene	0.25U		ug/L	1.25	0.25	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Benzo(g,h,i)perylene	0.28U		ug/L	1.4	0.28	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Benzo(k)fluoranthene	0.39U		ug/L	1.95	0.39	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Bis(2-Chloroethoxy)methane	0.32U		ug/L	1.6	0.32	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Bis(2-Chloroethyl)ether	0.46U		ug/L	2.3	0.46	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Bis(2-Chloroisopropyl)ether	0.34U		ug/L	1.7	0.34	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Bis(2-Ethylhexyl)phthalate	0.45U		ug/L	1	0.20	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
4-Bromophenyl phenyl ether	0.27U		ug/L	1.35	0.27	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Butyl benzyl phthalate	0.36U		ug/L	1.8	0.36	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Chrysene	0.28U		ug/L	1.4	0.28	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Di-n-butyl phthalate	0.21U		ug/L	1.05	0.21	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Di-n-octyl phthalate	0.28U		ug/L	1.4	0.28	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Dibenz(a,h)anthracene	0.55U		ug/L	2.75	0.55	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Diethyl phthalate	0.33U		ug/L	1.65	0.33	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Dimethyl phthalate	0.31U		ug/L	1.55	0.31	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2,4-Dimethylphenol	0.40U		ug/L	2	0.40	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Fluoranthene	0.20U		ug/L	1	0.20	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Fluorene	0.27U		ug/L	1.35	0.27	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Hexachlorobenzene	0.32U		ug/L	1.6	0.32	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Hexachlorobutadiene	0.45U		ug/L	2.25	0.45	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C

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ANALYTICAL RESULTS

Lab ID: **901842001** Date Received: 2/19/2009 Matrix: Wastewater
 Sample ID: **COMBINED EFFLUENT** Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
Hexachlorocyclopentadiene	0.74U		ug/L	3.7	0.74	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Hexachloroethane	0.36U		ug/L	1.8	0.36	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Indeno(1,2,3-cd)pyrene	0.26U		ug/L	1.3	0.26	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Isophorone	0.34U		ug/L	1.7	0.34	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Naphthalene	0.34U		ug/L	1.7	0.34	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Nitrobenzene	0.31U		ug/L	1.55	0.31	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
4-Nitrophenol	0.79U		ug/L	3.95	0.79	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Pentachlorophenol	0.67U		ug/L	3.35	0.67	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Phenanthrene	0.29U		ug/L	1.45	0.29	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Phenol	0.41U		ug/L	2.05	0.41	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Pyrene	0.47U		ug/L	2.35	0.47	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
n-Nitrosodi-n-propylamine	0.33U		ug/L	1.65	0.33	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
n-Nitrosodimethylamine	1.0U		ug/L	5	1.0	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
n-Nitrosodiphenylamine	0.31U		ug/L	1.55	0.31	1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Nitrobenzene-d5 (S)	74		%			1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2-Fluorobiphenyl (S)	71		%			1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Terphenyl-d14 (S)	102		%			1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
Phenol-d6 (S)	29		%			1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2-Fluorophenol (S)	48		%			1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C
2,4,6-Tribromophenol (S)	99		%			1	2/20/2009 9:00:00 AM	2/23/2009 3:35:00 PM	TBU C

Pesticides

Preparation Method: EPA 608	Analytical Method: EPA 608								
4,4'-DDD	0.000993U		ug/L	0.0049	0.0009	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
				65	93				
4,4'-DDE	0.00272U	4	ug/L	0.0136	0.0027	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
					2				
4,4'-DDT	0.00120U		ug/L	0.006	0.0012	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
					0				
Aldrin	0.00139U		ug/L	0.0069	0.0013	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
				5	9				
Chlordane(Technical)	0.00630U		ug/L	0.0315	0.0063	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
					0				

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ANALYTICAL RESULTS

Lab ID: **901842001** Date Received: 2/19/2009 Matrix: Wastewater
 Sample ID: **COMBINED EFFLUENT** Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
Dieldrin	0.00157U	4	ug/L	0.0078 5	0.0015 7	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Endosulfan I	0.00215U	4	ug/L	0.0107 5	0.0021 5	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Endosulfan II	0.00129U		ug/L	0.0064 5	0.0012 9	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Endosulfan sulfate	0.00153U	4	ug/L	0.0076 5	0.0015 3	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Endrin	0.000717U		ug/L	0.0035 85	0.0007 17	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Endrin aldehyde	0.000695U		ug/L	0.0034 75	0.0006 95	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Endrin ketone	0.000969U		ug/L	0.0048 45	0.0009 69	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Heptachlor	0.00885U	4	ug/L	0.0442 5	0.0088 5	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Heptachlor epoxide	0.00121U		ug/L	0.0060 5	0.0012 1	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Methoxychlor	0.000900U		ug/L	0.0045	0.0009 00	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
PCB 1016	0.012U		ug/L	0.06	0.012	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
PCB 1221	0.014U		ug/L	0.07	0.014	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
PCB 1232	0.190U		ug/L	0.95	0.190	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
PCB 1242	0.014U		ug/L	0.07	0.014	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
PCB 1248	0.00850U		ug/L	0.0425	0.0085 0	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
PCB 1254	0.014U		ug/L	0.07	0.014	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
PCB 1260	0.015U		ug/L	0.075	0.015	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Toxaphene	0.047U		ug/L	0.235	0.047	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
alpha-BHC	0.00313U	4	ug/L	0.0156 5	0.0031 3	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
alpha-Chlordane	0.00118U		ug/L	0.0059	0.0011 8	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
beta-BHC	0.00196U	4	ug/L	0.0098	0.0019 6	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
delta-BHC	0.000904U		ug/L	0.0045 2	0.0009 04	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
gamma-BHC (Lindane)	0.00604U	4	ug/L	0.0302	0.0060 4	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
gamma-Chlordane	0.00130U		ug/L	0.0065	0.0013 0	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Tetrachloro-m-xylene (S)	68		%		32-137	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC
Decachlorobiphenyl (S)	38		%		25-165	1	2/23/2009 3:30:00 PM	2/25/2009 4:37:41 AM	CCIC

Synthetic Organics

Preparation Method: EPA 531.1		Analytical Method: EPA 531.1							
Carbofuran	0.25U	2	ug/L	1.25	0.25	1	2/25/2009 3:30:00 PM	2/28/2009 2:24:00 AM	SUB
Oxamyl	0.18U		ug/L	0.9	0.18	1	2/25/2009 3:30:00 PM	2/28/2009 2:24:00 AM	SUB
Preparation Method: EPA 508.1		Analytical Method: EPA 508.1							
Alachlor	0.055U	2	ug/L	0.275	0.055	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB

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ANALYTICAL RESULTS

 Lab ID: **901842001** Date Received: 2/19/2009 Matrix: Wastewater
 Sample ID: **COMBINED EFFLUENT** Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
Atrazine (Aatrex)	0.026U		ug/L	0.13	0.026	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
gamma-BHC (Lindane)	0.0050U		ug/L	0.025	0.0050	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Chlordane(Technical)	0.035U		ug/L	0.175	0.035	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Endrin	0.0020U		ug/L	0.01	0.0020	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Heptachlor	0.0080U		ug/L	0.04	0.0080	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Heptachlor epoxide	0.0040U		ug/L	0.02	0.0040	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Hexachlorobenzene	0.025U		ug/L	0.125	0.025	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Hexachlorocyclopentadiene	0.021U		ug/L	0.105	0.021	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Methoxychlor	0.021U		ug/L	0.105	0.021	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Simazine (Princep)	0.025U		ug/L	0.125	0.025	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Toxaphene	0.21U		ug/L	1.05	0.21	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB
Polychlorinated Biphenyls-PCBS	0.10U		ug/L	0.5	0.10	1	2/25/2009 10:00:00 AM	2/25/2009 10:30:00 PM	SUB

Preparation Method: EPA 515.3 Analytical Method: EPA 515.3

2,4-D	0.030U	2	ug/L	0.15	0.030	1	2/26/2009 9:00:00 AM	2/27/2009 5:07:00 PM	SUB
Dalapon	0.66U		ug/L	3.3	0.66	1	2/26/2009 9:00:00 AM	2/27/2009 5:07:00 PM	SUB
Dinoseb	0.090U		ug/L	0.45	0.090	1	2/26/2009 9:00:00 AM	2/27/2009 5:07:00 PM	SUB
Pentachlorophenol	0.010U		ug/L	0.05	0.010	1	2/26/2009 9:00:00 AM	2/27/2009 5:07:00 PM	SUB
Picloram	0.010U		ug/L	0.05	0.010	1	2/26/2009 9:00:00 AM	2/27/2009 5:07:00 PM	SUB
2,4,5-TP (Silvex)	0.080U		ug/L	0.4	0.080	1	2/26/2009 9:00:00 AM	2/27/2009 5:07:00 PM	SUB

Analytical Method: EPA 547

Glyphosate	2.4U	2	ug/L	12	2.4	1		2/24/2009 4:08:00 AM	SUB
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Preparation Method: EPA 548.1 Analytical Method: EPA 548.1

Endothall	0.28U	2	ug/L	1.4	0.28	1	2/25/2009 9:00:00 AM	2/28/2009 6:23:00 PM	SUB
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Preparation Method: EPA 549.2 Analytical Method: EPA 549.2

Diquat	0.22U	2	ug/L	1.1	0.22	1	2/26/2009 7:58:00 PM	2/26/2009 7:58:00 PM	SUB
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Preparation Method: EPA 525.2 Analytical Method: EPA 525.2

Benzo(a)pyrene	0.019U	2	ug/L	0.095	0.019	1	2/25/2009 4:30:00 PM	2/26/2009 7:59:00 PM	SUB
Di(2-ethylhexyl)adipate	0.39U		ug/L	1.95	0.39	1	2/25/2009 4:30:00 PM	2/26/2009 7:59:00 PM	SUB
Bis(2-Ethylhexyl)phthalate	0.660I	1	ug/L	2.55	0.51	1	2/25/2009 4:30:00 PM	2/26/2009 7:59:00 PM	SUB

Volatiles

Analytical Method: EPA 624

1,1,1-Trichloroethane	0.680U		ug/L	3.4	0.680	1		2/23/2009 6:31:00 AM	LNE M
1,1,2,2-Tetrachloroethane	0.570U		ug/L	2.85	0.570	1		2/23/2009 6:31:00 AM	LNE M
1,1,2-Trichloroethane	0.840U		ug/L	4.2	0.840	1		2/23/2009 6:31:00 AM	LNE M
1,1-Dichloroethane	0.410U		ug/L	2.05	0.410	1		2/23/2009 6:31:00 AM	LNE M
1,1-Dichloroethene	0.640U		ug/L	3.2	0.640	1		2/23/2009 6:31:00 AM	LNE M

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ANALYTICAL RESULTS

Lab ID: **901842001**
 Sample ID: **COMBINED EFFLUENT**

Date Received: 2/19/2009 Matrix: Wastewater
 Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
1,2-Dichloroethane	0.897U		ug/L	4.485	0.897	1		2/23/2009 6:31:00 AM	LNE M
1,2-Dichloropropane	0.725U		ug/L	3.625	0.725	1		2/23/2009 6:31:00 AM	LNE M
2-Chloroethylvinyl ether	0.466U		ug/L	2.33	0.466	1		2/23/2009 6:31:00 AM	LNE M
Acrolein	2.47U		ug/L	12.35	2.47	1		2/23/2009 6:31:00 AM	LNE M
Acrylonitrile	0.955U	3,J	ug/L	4.775	0.955	1		2/23/2009 6:31:00 AM	LNE M
Benzene	0.621U		ug/L	3.105	0.621	1		2/23/2009 6:31:00 AM	LNE M
Bromodichloromethane	0.140U		ug/L	0.7	0.140	1		2/23/2009 6:31:00 AM	LNE M
Bromoform	0.486U		ug/L	2.43	0.486	1		2/23/2009 6:31:00 AM	LNE M
Bromomethane	0.427U		ug/L	2.135	0.427	1		2/23/2009 6:31:00 AM	LNE M
Carbon tetrachloride	0.468U		ug/L	2.34	0.468	1		2/23/2009 6:31:00 AM	LNE M
Chlorobenzene	0.316U		ug/L	1.58	0.316	1		2/23/2009 6:31:00 AM	LNE M
Chloroethane	0.710U		ug/L	3.55	0.710	1		2/23/2009 6:31:00 AM	LNE M
Chloroform	1.64		ug/L	2.86	0.572	1		2/23/2009 6:31:00 AM	LNE M
Chloromethane	0.524U		ug/L	2.62	0.524	1		2/23/2009 6:31:00 AM	LNE M
Dibromochloromethane	0.378U		ug/L	1.89	0.378	1		2/23/2009 6:31:00 AM	LNE M
cis-1,3-Dichloropropene	0.664U		ug/L	3.32	0.664	1		2/23/2009 6:31:00 AM	LNE M
trans-1,3-Dichloropropene	0.522U		ug/L	2.61	0.522	1		2/23/2009 6:31:00 AM	LNE M
Ethylbenzene	0.323U		ug/L	1.615	0.323	1		2/23/2009 6:31:00 AM	LNE M
Methylene chloride	0.240U		ug/L	1.2	0.240	1		2/23/2009 6:31:00 AM	LNE M
Tetrachloroethene	0.370I		ug/L	1.56	0.312	1		2/23/2009 6:31:00 AM	LNE M
Toluene	0.389U		ug/L	1.945	0.389	1		2/23/2009 6:31:00 AM	LNE M
Trichloroethene	0.821U		ug/L	4.105	0.821	1		2/23/2009 6:31:00 AM	LNE M
Vinyl chloride	0.506U		ug/L	2.53	0.506	1		2/23/2009 6:31:00 AM	LNE M
Xylene, m,p-	0.639U		ug/L	3.195	0.639	1		2/23/2009 6:31:00 AM	LNE M
Xylene, o-	0.341U		ug/L	1.705	0.341	1		2/23/2009 6:31:00 AM	LNE M
Xylenes (total)	0.980U		ug/L	4.9	0.980	1		2/23/2009 6:31:00 AM	LNE M
cis-1,2-Dichloroethene	0.442U		ug/L	2.21	0.442	1		2/23/2009 6:31:00 AM	LNE M

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ANALYTICAL RESULTS

Lab ID: **901842001** Date Received: 2/19/2009 Matrix: Wastewater
 Sample ID: **COMBINED EFFLUENT** Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
trans-1,2-Dichloroethene	0.410U		ug/L	2.05	0.410	1		2/23/2009 6:31:00 AM	LNE M
Analytical Method: EPA 524.2									
1,1,1-Trichloroethane	0.132U		ug/L	0.66	0.132	1		2/21/2009 6:38:00 AM	LNE M
1,1,2-Trichloroethane	0.088U		ug/L	0.44	0.088	1		2/21/2009 6:38:00 AM	LNE M
1,1-Dichloroethane	0.075U		ug/L	0.375	0.075	1		2/21/2009 6:38:00 AM	LNE M
1,1-Dichloroethene	0.086U		ug/L	0.43	0.086	1		2/21/2009 6:38:00 AM	LNE M
1,2,4-Trichlorobenzene	0.117U		ug/L	0.585	0.117	1		2/21/2009 6:38:00 AM	LNE M
1,2-Dichlorobenzene	0.076U		ug/L	0.38	0.076	1		2/21/2009 6:38:00 AM	LNE M
1,2-Dichloroethane	0.070U		ug/L	0.35	0.070	1		2/21/2009 6:38:00 AM	LNE M
1,2-Dichloropropane	0.093U		ug/L	0.465	0.093	1		2/21/2009 6:38:00 AM	LNE M
1,4-Dichlorobenzene	1.14		ug/L	0.75	0.150	1		2/21/2009 6:38:00 AM	LNE M
Benzene	0.077U		ug/L	0.385	0.077	1		2/21/2009 6:38:00 AM	LNE M
Bromodichloromethane	0.091U		ug/L	0.455	0.091	1		2/21/2009 6:38:00 AM	LNE M
Bromoform	0.15U		ug/L	0.75	0.15	1		2/21/2009 6:38:00 AM	LNE M
Carbon tetrachloride	0.134U		ug/L	0.67	0.134	1		2/21/2009 6:38:00 AM	LNE M
Chlorobenzene	0.113U		ug/L	0.565	0.113	1		2/21/2009 6:38:00 AM	LNE M
Chloroform	1.66		ug/L	0.385	0.077	1		2/21/2009 6:38:00 AM	LNE M
Dibromochloromethane	0.15U		ug/L	0.75	0.15	1		2/21/2009 6:38:00 AM	LNE M
Ethylbenzene	0.070U		ug/L	0.35	0.070	1		2/21/2009 6:38:00 AM	LNE M
Methylene chloride	0.117U		ug/L	0.585	0.117	1		2/21/2009 6:38:00 AM	LNE M
Styrene	0.040U		ug/L	0.2	0.040	1		2/21/2009 6:38:00 AM	LNE M
Tetrachloroethene	0.460I		ug/L	0.74	0.148	1		2/21/2009 6:38:00 AM	LNE M
Toluene	0.140U		ug/L	0.7	0.140	1		2/21/2009 6:38:00 AM	LNE M
Trichloroethene	0.121U		ug/L	0.605	0.121	1		2/21/2009 6:38:00 AM	LNE M
Total Trihalomethanes	1.66I		ug/L	2.35	0.47	1		2/21/2009 6:38:00 AM	LNE M
Vinyl chloride	0.120U		ug/L	0.6	0.120	1		2/21/2009 6:38:00 AM	LNE M
Xylene, m,p-	0.134U		ug/L	0.67	0.134	1		2/21/2009 6:38:00 AM	LNE M

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ANALYTICAL RESULTS

Lab ID: **901842001** Date Received: 2/19/2009 Matrix: Wastewater
 Sample ID: **COMBINED EFFLUENT** Date Collected: 2/19/2009

Parameters	Results	Qual	Units	PQL	MDL	DF	Prepared	Analyzed	By
Xylene, o-	0.083U		ug/L	0.415	0.083	1		2/21/2009 6:38:00 AM	LNE M
Xylenes (total)	0.210U		ug/L	1.05	0.210	1		2/21/2009 6:38:00 AM	LNE M
cis-1,2-Dichloroethene	0.085U		ug/L	0.425	0.085	1		2/21/2009 6:38:00 AM	LNE M
trans-1,2-Dichloroethene	0.087U		ug/L	0.435	0.087	1		2/21/2009 6:38:00 AM	LNE M
Analytical Method: EPA 624									
4-Bromofluorobenzene (S)	91		%		64-130	1		2/23/2009 6:31:00 AM	LNE M
Dibromofluoromethane (S)	112		%		69-134	1		2/23/2009 6:31:00 AM	LNE M
Toluene d8 (S)	99		%		63-127	1		2/23/2009 6:31:00 AM	LNE M
Analytical Method: EPA 524.2									
4-Bromofluorobenzene (S)	91		%		70-130	1		2/21/2009 6:38:00 AM	LNE M
1,2-Dichlorobenzene-d4 (S)	99		%		70-130	1		2/21/2009 6:38:00 AM	LNE M

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ANALYTICAL RESULTS QUALIFIERS**PARAMETER QUALIFIERS**

- I Estimated value; between MDL and PQL
- J Estimated value.
- V Present in blank.
- [1] E86772
- [2] E83079
- [3] NCR-LCS and/or LCSD recoveries above acceptable limits. The reported target analyte is below detection limits establishing that there is no high biased result reported
- [4] NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

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CASE NARRATIVE**Sample Analysis Comments**

Lab ID 901842001 Client ID COMBINED EFFLUENT**Analyte/2,4-D**

[2] E83079

Analyte/4,4'-DDE

NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

Analyte/Acrylonitrile

NCR-LCS and/or LCSD recoveries above acceptable limits. The reported target analyte is below detection limits establishing that there is no high biased result reported

Analyte/Alachlor

[2] E83079

Analyte/Asbestos

[1] E86772

Analyte/Benzo(a)pyrene

[2] E83079

Analyte/Bis(2-Ethylhexyl)phthalate

I = Estimated value; between MDL and PQL

Analyte/Carbofuran

[2] E83079

Analyte/Dieldrin

NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

Analyte/Diquat

[2] E83079

Analyte/Endosulfan I

NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

Analyte/Endosulfan sulfate

NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

Analyte/Endothall

[2] E83079

Analyte/Glyphosate

[2] E83079

Analyte/Heptachlor

NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

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CASE NARRATIVE**Sample Analysis Comments**

Lab ID 901842001 Client ID COMBINED EFFLUENT**Analyte/alpha-BHC**

NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

Analyte/beta-BHC

NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

Analyte/gamma-BHC (Lindane)

NCR-% difference of results from primary and secondary columns is >40%, possible due to matrix interference. Detection limit elevated above lowest concentration.

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QUALITY CONTROL DATA

QC Batch: EXT0/1744 Analysis Method: EPA 625
 QC Batch Method: EPA 625
 Associated Lab Samples: 901780001 901839001 901840001 901842001 901843002 901850001
 901850002 901850003

METHOD BLANK: 17506

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Semivolatiles				
Acenaphthene	ug/L	0.25U	0.25	
Acenaphthylene	ug/L	0.26U	0.26	
Anthracene	ug/L	0.25U	0.25	
Benzidine	ug/L	9.7U	9.7	
Benzo(a)anthracene	ug/L	0.27U	0.27	
Benzo(a)pyrene	ug/L	0.31U	0.31	
Benzo(b)fluoranthene	ug/L	0.25U	0.25	
Benzo(g,h,i)perylene	ug/L	0.28U	0.28	
Benzo(k)fluoranthene	ug/L	0.39U	0.39	
Bis(2-Chloroethoxy)methane	ug/L	0.32U	0.32	
Bis(2-Chloroethyl)ether	ug/L	0.46U	0.46	
Bis(2-Chloroisopropyl)ether	ug/L	0.34U	0.34	
Bis(2-Ethylhexyl)phthalate	ug/L	0.20U	0.20	
4-Bromophenyl phenyl ether	ug/L	0.27U	0.27	
Butyl benzyl phthalate	ug/L	0.36U	0.36	
2-Chloronaphthalene	ug/L	0.32U	0.32	
4-Chlorophenyl phenyl ether	ug/L	0.45U	0.45	
Chrysene	ug/L	0.28U	0.28	
Dibenz(a,h)anthracene	ug/L	0.55U	0.55	
1,2-Dichlorobenzene	ug/L	0.34U	0.34	
1,3-Dichlorobenzene	ug/L	0.35U	0.35	
1,4-Dichlorobenzene	ug/L	0.28U	0.28	
3,3'-Dichlorobenzidine	ug/L	0.31U	0.31	
Diethyl phthalate	ug/L	0.33U	0.33	
Dimethyl phthalate	ug/L	0.31U	0.31	
Di-n-butyl phthalate	ug/L	0.21U	0.21	
2,4-Dinitrotoluene	ug/L	0.31U	0.31	
2,6-Dinitrotoluene	ug/L	0.31U	0.31	
Di-n-octyl phthalate	ug/L	0.28U	0.28	
Fluoranthene	ug/L	0.20U	0.20	
Fluorene	ug/L	0.27U	0.27	
Hexachlorobenzene	ug/L	0.32U	0.32	
Hexachlorobutadiene	ug/L	0.45U	0.45	
Hexachlorocyclopentadiene	ug/L	0.74U	0.74	
Hexachloroethane	ug/L	0.36U	0.36	
Indeno(1,2,3-cd)pyrene	ug/L	0.26U	0.26	
Isophorone	ug/L	0.34U	0.34	
Naphthalene	ug/L	0.34U	0.34	
Nitrobenzene	ug/L	0.31U	0.31	
n-Nitrosodimethylamine	ug/L	1.0U	1.0	
n-Nitrosodi-n-propylamine	ug/L	0.33U	0.33	
n-Nitrosodiphenylamine	ug/L	0.31U	0.31	

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QUALITY CONTROL DATA

METHOD BLANK: 17506

Parameter	Units	Blank	Reporting
		Result	Limit Qualifiers
Phenanthrene	ug/L	0.29U	0.29
Pyrene	ug/L	0.47U	0.47
1,2,4-Trichlorobenzene	ug/L	0.23U	0.23
2-Chlorophenol	ug/L	0.22U	0.22
2,4-Dichlorophenol	ug/L	0.43U	0.43
2,4-Dimethylphenol	ug/L	0.40U	0.40
4,6-Dinitro-2-methylphenol	ug/L	0.35U	0.35
2,4-Dinitrophenol	ug/L	1.4U	1.4
2-Nitrophenol	ug/L	0.24U	0.24
4-Nitrophenol	ug/L	0.79U	0.79
4-Chloro-3-methylphenol	ug/L	0.22U	0.22
Pentachlorophenol	ug/L	0.67U	0.67
Phenol	ug/L	0.41U	0.41
2,4,6-Trichlorophenol	ug/L	0.27U	0.27
Nitrobenzene-d5 (S)	%	83	10-117
2-Fluorobiphenyl (S)	%	83	10-112
Terphenyl-d14 (S)	%	111	20-146
Phenol-d6 (S)	%	33	10-59
2-Fluorophenol (S)	%	46	24-64
2,4,6-Tribromophenol (S)	%	95	52-121

LABORATORY CONTROL SAMPLE: 17507

Parameter	Units	Spike	LCS	LCS	% Rec
		Conc.	Result	% Rec	Limits Qualifiers
Semivolatiles					
Acenaphthylene	ug/L	50	42.5	85	33-145
Anthracene	ug/L	50	45.4	91	27-133
Benzo(a)anthracene	ug/L	50	48.5	97	33-143
Benzo(b)fluoranthene	ug/L	50	38.0	76	24-159
Benzo(k)fluoranthene	ug/L	50	46.4	93	11-162
Benzo(g,h,i)perylene	ug/L	50	50.3	101	0-219
Benzo(a)pyrene	ug/L	50	44.4	89	17-163
Butyl benzyl phthalate	ug/L	50	52.7	105	0-152
Bis(2-Chloroethoxy)methane	ug/L	50	41.2	82	33-184
Bis(2-Chloroethyl)ether	ug/L	50	38.9	78	12-158
Bis(2-Chloroisopropyl)ether	ug/L	50	38.9	78	36-166
Bis(2-Ethylhexyl)phthalate	ug/L	50	57.9	116	8-158
4-Bromophenyl phenyl ether	ug/L	50	48.9	98	53-127
4-Chlorophenyl phenyl ether	ug/L	50	41.0	82	25-158
Chrysene	ug/L	50	42.7	85	17-168
Dibenz(a,h)anthracene	ug/L	50	49.3	99	0-227
1,2-Dichlorobenzene	ug/L	50	33.9	68	32-129

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QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE: 17507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	32.6	65	0-172	
3,3'-Dichlorobenzidine	ug/L	50	39.6	79	0-262	
2,4-Dichlorophenol	ug/L	50	36.3	73	39-135	
Diethyl phthalate	ug/L	50	44.7	89	0-114	
2,4-Dimethylphenol	ug/L	50	41.5	83	32-119	
Dimethyl phthalate	ug/L	50	44.9	90	0-112	
Di-n-octyl phthalate	ug/L	50	56.7	113	4-146	
2,4-Dinitrophenol	ug/L	50	37.3	75	0-191	
2,6-Dinitrotoluene	ug/L	50	41.9	84	50-158	
Fluoranthene	ug/L	50	47.5	95	26-137	
Fluorene	ug/L	50	42.6	85	59-121	
Hexachlorobenzene	ug/L	50	42.6	85	0-152	
Hexachlorobutadiene	ug/L	50	32.7	65	24-116	
Hexachlorocyclopentadiene	ug/L	50	22.2	44	10-115	
Hexachloroethane	ug/L	50	34.0	68	40-113	
Isophorone	ug/L	50	46.2	92	21-196	
Indeno(1,2,3-cd)pyrene	ug/L	50	48.4	97	0-171	
4,6-Dinitro-2-methylphenol	ug/L	50	32.8	66	0-181	
Naphthalene	ug/L	50	37.3	75	21-133	
Nitrobenzene	ug/L	50	39.7	79	35-180	
n-Nitrosodimethylamine	ug/L	50	27.1	54		
2-Nitrophenol	ug/L	50	36.3	73	29-182	
Phenanthrene	ug/L	50	43.9	88	54-120	
2,4,6-Trichlorophenol	ug/L	50	40.6	81	37-144	
Di-n-butyl phthalate	ug/L	50	51.5	103	57-126	
2-Chloronaphthalene	ug/L	50	39.8	80	60-118	
Phenol	ug/L	50	18.3	37	5-112	
2-Chlorophenol	ug/L	50	34.5	69	23-134	
n-Nitrosodi-n-propylamine	ug/L	50	42.4	85	0-230	
1,4-Dichlorobenzene	ug/L	50	33.9	68	20-124	
n-Nitrosodiphenylamine	ug/L	50	40.4	81	42-113	
1,2,4-Trichlorobenzene	ug/L	50	35.1	70	44-142	
4-Chloro-3-methylphenol	ug/L	50	40.6	81	22-147	
Acenaphthene	ug/L	50	39.7	79	47-145	
4-Nitrophenol	ug/L	50	25.1	50	0-132	
2,4-Dinitrotoluene	ug/L	50	41.1	82	39-139	
Pentachlorophenol	ug/L	50	48.4	97	14-176	
Pyrene	ug/L	50	47.2	94	52-115	
Benzidine	ug/L	50	9.7U	16	10-104	
Nitrobenzene-d5 (S)	%			82	39-117	
2-Fluorobiphenyl (S)	%			83	40-112	
Terphenyl-d14 (S)	%			112	31-146	
Phenol-d6 (S)	%			39	10-59	
2-Fluorophenol (S)	%			49	24-64	
2,4,6-Tribromophenol (S)	%			102	52-121	

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QUALITY CONTROL DATA

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17508 17509 Original: 901791008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
Semivolatiles											
Acenaphthylene	ug/L	0.0859	50	38.4	39.9	77	80	33-145	4	20	
Anthracene	ug/L	0.0575	50	42.2	43.2	84	86	27-133	2	20	
Benzo(a)anthracene	ug/L	0	50	47.6	48.6	95	97	33-143	2	20	
Benzo(b)fluoranthene	ug/L	0	50	36.9	40.6	74	81	24-159	9	20	
Benzo(k)fluoranthene	ug/L	0	50	43.2	39.4	86	79	11-162	8	20	
Benzo(g,h,i)perylene	ug/L	0	50	45.2	46.9	90	94	0-219	4	20	
Benzo(a)pyrene	ug/L	0.0785	50	42.2	43.7	84	87	17-163	4	20	
Butyl benzyl phthalate	ug/L	0	50	51.0	50.9	102	102	0-152	0	20	
Bis(2-Chloroethoxy)methane	ug/L	0	50	38.0	37.1	76	74	33-184	3	20	
Bis(2-Chloroethyl)ether	ug/L	0	50	34.8	36.2	70	72	12-158	3	20	
Bis(2-Chloroisopropyl)ether	ug/L	0	50	35.6	36.7	71	73	36-166	3	20	
Bis(2-Ethylhexyl)phthalate	ug/L	0	50	55.1	54.6	110	109	8-158	0.9	20	
4-Bromophenyl phenyl ether	ug/L	0	50	45.4	45.7	91	91	53-127	0	20	
4-Chlorophenyl phenyl ether	ug/L	0	50	38.0	39.6	76	79	25-158	4	20	
Chrysene	ug/L	0	50	41.2	41.3	82	83	17-168	1	20	
Dibenz(a,h)anthracene	ug/L	0	50	47.2	48.1	94	96	0-227	2	20	
1,2-Dichlorobenzene	ug/L	0	50	31.4	32.1	63	64	32-129	2	20	
1,3-Dichlorobenzene	ug/L	0	50	29.4	30.7	59	61	0-172	3	20	
3,3'-Dichlorobenzidine	ug/L	0	50	40.9	40.1	82	80	0-262	2	20	
2,4-Dichlorophenol	ug/L	0	50	33.1	33.8	66	68	39-135	3	20	
Diethyl phthalate	ug/L	0	50	42.7	45.5	85	91	0-114	7	20	
2,4-Dimethylphenol	ug/L	0	50	38.4	37.1	77	74	32-119	4	20	
Dimethyl phthalate	ug/L	0.0703	50	41.5	42.9	83	86	0-112	4	20	
Di-n-octyl phthalate	ug/L	0	50	54.2	54.1	108	108	4-146	0	20	
2,4-Dinitrophenol	ug/L	0	50	35.5	35.6	71	71	0-191	0	20	
2,6-Dinitrotoluene	ug/L	0	50	38.5	38.2	77	76	50-158	1	20	
Fluoranthene	ug/L	0	50	46.4	45.5	93	91	26-137	2	20	
Fluorene	ug/L	0.0657	50	39.2	40.8	78	82	59-121	5	20	
Hexachlorobenzene	ug/L	0	50	39.1	39.4	78	79	0-152	1	20	
Hexachlorobutadiene	ug/L	0	50	30.3	31.2	61	62	24-116	2	20	
Hexachlorocyclopentadiene	ug/L	0	50	18.4	19.9	37	40	10-115	8	20	
Hexachloroethane	ug/L	0	50	30.0	32.0	60	64	40-113	6	20	
Isophorone	ug/L	0	50	42.6	42.3	85	85	21-196	0	20	
Indeno(1,2,3-cd)pyrene	ug/L	0	50	47.0	48.4	94	97	0-171	3	20	
4,6-Dinitro-2-methylphenol	ug/L	0	50	30.1	29.6	60	59	0-181	2	20	
Naphthalene	ug/L	0	50	33.7	33.9	67	68	21-133	1	20	
Nitrobenzene	ug/L	0	50	35.5	35.5	71	71	35-180	0	20	
n-Nitrosodimethylamine	ug/L	0	50	25.6	26.0	51	52		2		
2-Nitrophenol	ug/L	0	50	32.7	33.6	65	67	29-182	3	20	
Phenanthrene	ug/L	0.0608	50	41.5	41.9	83	84	54-120	1	20	
2,4,6-Trichlorophenol	ug/L	0	50	37.5	38.8	75	78	37-144	4	20	
Di-n-butyl phthalate	ug/L	0	50	48.8	49.8	98	100	57-126	2	20	
2-Chloronaphthalene	ug/L	0.0739	50	35.7	36.8	71	74	60-118	4	20	
Phenol	ug/L	0	50	16.9	16.9	34	34	5-112	0	20	

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QUALITY CONTROL DATA

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17508 17509 Original: 901791008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
2-Chlorophenol	ug/L	0	50	31.3	32.9	63	66	23-134	5	20	
n-Nitrosodi-n-propylamine	ug/L	0	50	37.4	38.4	75	77	0-230	3	20	
1,4-Dichlorobenzene	ug/L	0	50	30.4	31.5	61	63	20-124	3	20	
n-Nitrosodiphenylamine	ug/L	0	50	38.9	39.2	78	78	42-113	0	20	
1,2,4-Trichlorobenzene	ug/L	0	50	31.4	32.6	63	65	44-142	3	20	
4-Chloro-3-methylphenol	ug/L	0	50	37.5	37.4	75	75	22-147	0	20	
Acenaphthene	ug/L	0	50	35.9	37.5	72	75	47-145	4	20	
4-Nitrophenol	ug/L	0	50	24.3	24.3	49	49	0-132	0	20	
2,4-Dinitrotoluene	ug/L	0	50	39.3	39.8	79	80	39-139	1	20	
Pentachlorophenol	ug/L	0	50	46.9	46.3	94	93	14-176	1	20	
Pyrene	ug/L	0.0488	50	44.5	44.2	89	88	52-115	1	20	
Benzidine	ug/L	0	50	9.7U	9.7U	16	9	10-104	56	20	6,5
Nitrobenzene-d5 (S)	%					74	74	39-117	0		
2-Fluorobiphenyl (S)	%					76	80	40-112	5		
Terphenyl-d14 (S)	%					106	105	31-146	0.9		
Phenol-d6 (S)	%					36	36	10-59	0		
2-Fluorophenol (S)	%					46	47	24-64	2		
2,4,6-Tribromophenol (S)	%					97	93	52-121	4		

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QUALITY CONTROL DATA

QC Batch: EXTO/1745 Analysis Method: EPA 1664A
 QC Batch Method: EPA 1664A
 Associated Lab Samples: 901783001 901783002 901789001 901839001 901842001 901843002
 901850001 901850002 901850003 901853002

METHOD BLANK: 17510

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry Oil and Grease	mg/L	1.4U	1.4	

LABORATORY CONTROL SAMPLE: 17511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Wet Chemistry Oil and Grease	mg/L	200	186	93	78-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17512 17513 Original: 901791010

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry Oil and Grease	mg/L	0.36	200	184	181	92	90	70-130	2	20	

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QUALITY CONTROL DATA

QC Batch: EXT0/1746 Analysis Method: EPA 504.1
 QC Batch Method: EPA 504

Associated Lab Samples:	901742001	901742002	901780001	901780002	901835001	901835003
	901838001	901838002	901840001	901840002	901842001	901852001
	901852002	901852003	901872001	901872002	901873001	901873002

METHOD BLANK: 17514

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDB Analysis				
1,2-Dibromo-3-chloropropane	ug/L	0.00310U	0.00310	
1,2-Dibromoethane	ug/L	0.00640U	0.00640	
4-Bromofluorobenzene (S)	%	78	70-130	

LABORATORY CONTROL SAMPLE & LCSD: 17515 17516

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDB Analysis										
1,2-Dibromo-3-chloropropane	ug/L	0.252	0.278	0.287	110	114	72-150	4	20	
1,2-Dibromoethane	ug/L	0.252	0.288	0.288	114	114	78-142	0	20	
4-Bromofluorobenzene (S)	%				78	77	70-130	1		

MATRIX SPIKE SAMPLE: 17517 Original: 901791009

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
EDB Analysis							
1,2-Dibromo-3-chloropropane	ug/L	0	0.252	0.287	114	70-130	
1,2-Dibromoethane	ug/L	0	0.252	0.288	114	70-130	
4-Bromofluorobenzene (S)	%				76	70-130	

SAMPLE DUPLICATE: 17518 Original: 901742001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
EDB Analysis						
1,2-Dibromo-3-chloropropane	ug/L		0.00310U	0		
1,2-Dibromoethane	ug/L		0.00640U	0		
4-Bromofluorobenzene (S)	%		72	6		

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QUALITY CONTROL DATA

QC Batch: MISC/1114 Analysis Method: SM 2150 B
 QC Batch Method: SM 2150 B
 Associated Lab Samples: 901835002 901840001 901842001 901852001 901852002

METHOD BLANK: 17677

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry Odor	TON	1U	1	

SAMPLE DUPLICATE: 17678 Original: 901840001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Wet Chemistry Odor	TON	16.0	16.0	0	20	

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QUALITY CONTROL DATA

QC Batch: LACH/1768 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1
 Associated Lab Samples: 901818001 901822001 901840001 901842001

METHOD BLANK: 17679

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Wet Chemistry Ortho Phosphate - P	mg/L-P	0.005U	0.005

LABORATORY CONTROL SAMPLE & LCSD: 17680 17681

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
Wet Chemistry Ortho Phosphate - P	mg/L-P	0.5	0.520	0.521	104	104	90-110	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17682 17683 Original: 901818001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
Wet Chemistry Ortho Phosphate - P	mg/L-P	0.247	0.5	0.768	0.770	104	105	90-110	1	20

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QUALITY CONTROL DATA

QC Batch: HACH/1120 Analysis Method: SM 2120B Color
 QC Batch Method: SM 2120B Color
 Associated Lab Samples: 901780001 901835001 901840001 901842001

METHOD BLANK: 17684

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry Color (True/Apparent)	pcu	5.0U	5.0	

SAMPLE DUPLICATE: 17685 Original: 901780001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Wet Chemistry Color (True/Apparent)	pcu	300	300	0	20	

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QUALITY CONTROL DATA

QC Batch: DIGM/1602 Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Associated Lab Samples:	901823001	901826001	901827001	901828002	901828004	901829001
	901835001	901838001	901840001	901842001	901850001	901850002
	901850003					

METHOD BLANK: 17690

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Aluminum	mg/L	0.046U	0.046
Chromium	mg/L	0.0011U	0.0011
Copper	mg/L	0.0096U	0.0096
Iron	mg/L	0.045U	0.045
Nickel	mg/L	0.0052U	0.0052
Silver	mg/L	0.0016U	0.0016
Sodium	mg/L	0.074U	0.074
Zinc	mg/L	0.0053U	0.0053

LABORATORY CONTROL SAMPLE: 17691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
Aluminum	mg/L	5	5.16	103	70-130
Chromium	mg/L	1	1.05	105	70-130
Copper	mg/L	1	1.06	106	70-130
Iron	mg/L	5	5.34	107	70-130
Nickel	mg/L	1	1.05	105	70-130
Silver	mg/L	0.5	0.577	115	70-130
Sodium	mg/L	25	27.4	109	70-130
Zinc	mg/L	1	1.06	106	70-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17692 17693 Original: 901838001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Aluminum	mg/L	0.112	5	5.42	5.45	106	107	70-130	0.9	20	
Chromium	mg/L	0.00445	1	1.06	1.08	105	107	70-130	2	20	
Copper	mg/L	0.00733	1	1.07	1.08	107	108	70-130	0.9	20	
Iron	mg/L	0.193	5	5.50	5.38	106	104	70-130	2	20	
Nickel	mg/L	0.00367	1	1.04	1.05	104	105	70-130	1	20	
Silver	mg/L	-0.00322	0.5	0.605	0.580	121	116	70-130	4	20	
Sodium	mg/L	238	25	257	252	80	58	70-130	32	20	
Zinc	mg/L	0.0633	1	1.14	1.16	107	109	70-130	2	20	

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QUALITY CONTROL DATA

QC Batch: DIGM/1603 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8
 Associated Lab Samples: 901738001 901738002 901742001 901742002 901802001 901835001
 901838001 901839001 901840001 901842001 901843002 901850001
 901850002 901850003

METHOD BLANK: 17694

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Antimony	mg/L	0.0010U	0.0010
Arsenic	mg/L	0.0016U	0.0016
Barium	mg/L	0.0015U	0.0015
Beryllium	mg/L	0.00085U	0.00085
Cadmium	mg/L	0.00011U	0.00011
Lead	mg/L	0.00075U	0.00075
Manganese	mg/L	0.0011U	0.0011
Selenium	mg/L	0.00082U	0.00082
Thallium	mg/L	0.00027U	0.00027

LABORATORY CONTROL SAMPLE: 17695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
Antimony	mg/L	0.2	0.216	108	85-115
Arsenic	mg/L	0.2	0.207	104	85-115
Barium	mg/L	0.2	0.204	102	85-115
Beryllium	mg/L	0.2	0.208	104	85-115
Cadmium	mg/L	0.2	0.202	101	85-115
Lead	mg/L	0.2	0.214	107	85-115
Manganese	mg/L	0.2	0.210	105	85-115
Selenium	mg/L	0.2	0.199	100	85-115
Thallium	mg/L	0.2	0.211	106	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17696 17697 Original: 901838001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Antimony	mg/L			0.214	0.222						Q
Arsenic	mg/L			0.200	0.205						Q
Barium	mg/L	0.00704	0.2	0.201	0.208	97	101	70-130	4	20	Q
Beryllium	mg/L			0.202	0.207						Q
Cadmium	mg/L			0.188	0.198						Q
Lead	mg/L			0.212	0.215						Q
Manganese	mg/L	0.0177	0.2	0.207	0.208	95	95	70-130	0	20	Q
Selenium	mg/L			0.187	0.195						Q

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QUALITY CONTROL DATA

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17696 17697 Original: 901838001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
Thallium	mg/L			0.209	0.210						Q

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QUALITY CONTROL DATA

QC Batch: LACH/1770 Analysis Method: EPA 350.1
 QC Batch Method: EPA 350.1
 Associated Lab Samples: 901811001 901811002 901821001 901821002 901823001 901840001
 901841005 901841006 901842001

METHOD BLANK: 17706

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry Ammonia	mg/L-N	0.02341	0.017	

LABORATORY CONTROL SAMPLE & LCSD: 17707 17708

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry Ammonia	mg/L-N	2.5	2.70	2.70	108	108	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17709 17710 Original: 901810001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry Ammonia	mg/L-N			2.13	2.14				1	20	

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QUALITY CONTROL DATA

QC Batch: INPR/1468 Analysis Method: SM 5540 C

QC Batch Method: SM 5540 C

Associated Lab Samples: 901780001 901835001 901838001 901840001 901842001 901852001
 901852002 901872001 901873001

METHOD BLANK: 17734

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry Surfactants	mg/L-LAS	0.040U	0.040	

LABORATORY CONTROL SAMPLE & LCSD: 17735 17736

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry Surfactants	mg/L-LAS	1	0.997	0.979	100	98	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17737 17738 Original: 901844002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry Surfactants	mg/L-LAS	0.271	1	1.28	1.27	101	100	80-120	1	20	

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QUALITY CONTROL DATA

QC Batch: EXTO/1758 Analysis Method: EPA 608
 QC Batch Method: EPA 608
 Associated Lab Samples: 901839001 901840001 901842001 901843002 901850001 901850002
 901850003 901852001 901852002 901853002 901910001 901910002

METHOD BLANK: 17796

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Pesticides				
alpha-BHC	ug/L	0.000924U	0.000924	
beta-BHC	ug/L	0.00123U	0.00123	
delta-BHC	ug/L	0.000904U	0.000904	
Chlordane(Technical)	ug/L	0.00630U	0.00630	
gamma-Chlordane	ug/L	0.00130U	0.00130	
alpha-Chlordane	ug/L	0.00118U	0.00118	
Heptachlor epoxide	ug/L	0.00121U	0.00121	
Endosulfan I	ug/L	0.00103U	0.00103	
4,4'-DDE	ug/L	0.00148U	0.00148	
Endosulfan II	ug/L	0.00129U	0.00129	
4,4'-DDD	ug/L	0.000993U	0.000993	
Endosulfan sulfate	ug/L	0.000279U	0.000279	
Methoxychlor	ug/L	0.000900U	0.000900	
Endrin aldehyde	ug/L	0.000695U	0.000695	
Toxaphene	ug/L	0.047U	0.047	
Endrin ketone	ug/L	0.000969U	0.000969	
PCB 1221	ug/L	0.014U	0.014	
PCB 1232	ug/L	0.190U	0.190	
PCB 1242	ug/L	0.014U	0.014	
PCB 1248	ug/L	0.00850U	0.00850	
PCB 1254	ug/L	0.014U	0.014	
PCB 1016	ug/L	0.012U	0.012	
PCB 1260	ug/L	0.015U	0.015	
gamma-BHC (Lindane)	ug/L	0.000563U	0.000563	
Heptachlor	ug/L	0.00152U	0.00152	
Aldrin	ug/L	0.00139U	0.00139	
Dieldrin	ug/L	0.00106U	0.00106	
Endrin	ug/L	0.000717U	0.000717	
4,4'-DDT	ug/L	0.00120U	0.00120	
Tetrachloro-m-xylene (S)	%	49	32-137	
Decachlorobiphenyl (S)	%	74	25-165	

LABORATORY CONTROL SAMPLE: 17797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pesticides						
alpha-BHC	ug/L	0.1	0.067	67	33-150	
beta-BHC	ug/L	0.1	0.078	78	37-162	

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QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE: 17797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
delta-BHC	ug/L	0.1	0.013I	13		
Chlordane(Technical)	ug/L		0.00630U			
gamma-Chlordane	ug/L	0.1	0.076	76	39-147	
alpha-Chlordane	ug/L	0.1	0.076	76	43-151	
Heptachlor epoxide	ug/L	0.1	0.077	77	48-138	
Endosulfan I	ug/L	0.1	0.075	75	42-148	
4,4'-DDE	ug/L	0.1	0.083I	83	38-174	
Endosulfan II	ug/L	0.1	0.084I	84	19-214	
4,4'-DDD	ug/L	0.1	0.087I	87	28-209	
Endosulfan sulfate	ug/L	0.1	0.078I	78	10-218	
Methoxychlor	ug/L	0.1	0.095	95	10-317	
Endrin aldehyde	ug/L	0.1	0.090I	90	12-217	
Toxaphene	ug/L		0.047U			
Endrin ketone	ug/L	0.1	0.076I	76	36-148	
PCB 1221	ug/L		0.014U			
PCB 1232	ug/L		0.190U			
PCB 1242	ug/L		0.014U			
PCB 1248	ug/L		0.00850U			
PCB 1254	ug/L		0.014U			
PCB 1016	ug/L		0.012U			
PCB 1260	ug/L		0.015U			
gamma-BHC (Lindane)	ug/L	0.1	0.070	70	33-155	
Heptachlor	ug/L	0.1	0.070	70	47-148	
Aldrin	ug/L	0.1	0.058	58	43-149	
Dieldrin	ug/L	0.1	0.079	79	47-162	
Endrin	ug/L	0.1	0.087I	87	41-189	
4,4'-DDT	ug/L	0.1	0.087I	87	14-228	
Tetrachloro-m-xylene (S)	%			56	32-137	
Decachlorobiphenyl (S)	%			91	25-165	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17798

17799

Original: 901874005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Pesticides											
alpha-BHC	ug/L	0	0.1	0.060	0.058	60	58	33-150	3	28	
beta-BHC	ug/L	0	0.1	0.070	0.068	70	68	37-162	3	27	
delta-BHC	ug/L	0	0.1	0.012I	0.012I	12	12		0		
Chlordane(Technical)	ug/L			0.00630U	0.00630U						
gamma-Chlordane	ug/L	0	0.1	0.061	0.057	61	57	39-147	7	24	
alpha-Chlordane	ug/L	0	0.1	0.073	0.068	73	68	43-151	7	28	
Heptachlor epoxide	ug/L	0	0.1	0.075	0.070	75	70	48-138	7	24	
Endosulfan I	ug/L	0	0.1	0.074	0.068	74	68	42-148	8	24	
4,4'-DDE	ug/L	0	0.1	0.078I	0.074I	78	74	38-174	5	33	
Endosulfan II	ug/L	0	0.1	0.080I	0.078I	80	78	19-214	3	33	

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QUALITY CONTROL DATA

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17798

17799

Original: 901874005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
4,4'-DDD	ug/L	0	0.1	0.082I	0.079I	82	79	28-209	4	36	
Endosulfan sulfate	ug/L	0	0.1	0.073I	0.071I	73	71	10-218	3	35	
Methoxychlor	ug/L	0	0.1	0.084	0.083	84	83	10-317	1	26	
Endrin aldehyde	ug/L	0	0.1	0.070I	0.071I	70	71	12-217	1	24	
Toxaphene	ug/L			0.047U	0.047U						
Endrin ketone	ug/L	0	0.1	0.073I	0.072I	73	72	36-148	1	26	
PCB 1221	ug/L			0.014U	0.014U						
PCB 1232	ug/L			0.190U	0.190U						
PCB 1242	ug/L			0.014U	0.014U						
PCB 1248	ug/L			0.00850U	0.00850U						
PCB 1254	ug/L			0.014U	0.014U						
PCB 1016	ug/L			0.012U	0.012U						
PCB 1260	ug/L			0.015U	0.015U						
gamma-BHC (Lindane)	ug/L	0	0.1	0.065	0.061	65	61	33-155	6	26	
Heptachlor	ug/L	0	0.1	0.063	0.062	63	62	47-148	2	30	
Aldrin	ug/L	0	0.1	0.060	0.058	60	58	43-149	3	35	
Dieldrin	ug/L	0	0.1	0.077	0.071	77	71	47-162	8	33	
Endrin	ug/L	0	0.1	0.081I	0.076I	81	76	41-189	6	32	
4,4'-DDT	ug/L	0	0.1	0.078I	0.076I	78	76	14-228	3	28	
Tetrachloro-m-xylene (S)	%					50	50	32-137	0		
Decachlorobiphenyl (S)	%					79	79	25-165	0		

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QUALITY CONTROL DATA

QC Batch: IC/1189 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0

Associated Lab Samples:	901784001	901821001	901821002	901823001	901831002	901835001
	901838001	901840001	901841001	901841004	901841005	901841006
	901842001	901852001	901852002	901854009	901855003	901872001
	901873001					

METHOD BLANK: 17825

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry				
Nitrate	mg/L-N	0.007U	0.007	
Nitrite	mg/L-N	0.005U	0.005	
Fluoride	mg/L	0.030U	0.030	
Sulfate	mg/L	0.076U	0.076	

LABORATORY CONTROL SAMPLE & LCSD: 17826 17827

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry										
Nitrate	mg/L-N	2.5	2.58	2.61	103	104	90-110	1	20	
Nitrite	mg/L-N	2.5	2.44	2.46	97	98	90-110	1	20	
Fluoride	mg/L	2.5	2.54	2.59	102	104	90-110	1.9	20	
Sulfate	mg/L	7.5	7.64	7.69	102	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17828 17829 Original: 901841001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry											
Nitrate	mg/L-N	0	25	26.7	26.0	107	104	90-110	3	20	
Nitrite	mg/L-N	0	25	25.7	23.9	103	96	90-110	7	20	
Fluoride	mg/L			35.8	35.3						
Sulfate	mg/L			126	120						

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QUALITY CONTROL DATA

QC Batch: MSV/1452 Analysis Method: EPA 524.2
 QC Batch Method: EPA 524.2
 Associated Lab Samples: 901834001 901835002 901835003 901838001 901838002 901840001
 901840002 901842001 901852001 901852002 901872001 901872002
 901873001 901873002

METHOD BLANK: 17837

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Volatiles				
Vinyl chloride	ug/L	0.120U	0.120	
1,1-Dichloroethene	ug/L	0.086U	0.086	
Methylene chloride	ug/L	0.117U	0.117	
trans-1,2-Dichloroethene	ug/L	0.087U	0.087	
cis-1,2-Dichloroethene	ug/L	0.085U	0.085	
Chloroform	ug/L	0.077U	0.077	
1,2-Dichloroethane	ug/L	0.070U	0.070	
1,1,1-Trichloroethane	ug/L	0.132U	0.132	
Benzene	ug/L	0.077U	0.077	
Carbon tetrachloride	ug/L	0.134U	0.134	
1,2-Dichloropropane	ug/L	0.093U	0.093	
Trichloroethene	ug/L	0.121U	0.121	
Bromodichloromethane	ug/L	0.091U	0.091	
Toluene	ug/L	0.140U	0.140	
Dibromochloromethane	ug/L	0.15U	0.15	
Tetrachloroethene	ug/L	0.148U	0.148	
Chlorobenzene	ug/L	0.113U	0.113	
Ethylbenzene	ug/L	0.070U	0.070	
Xylene, m,p-	ug/L	0.134U	0.134	
Bromoform	ug/L	0.15U	0.15	
Styrene	ug/L	0.040U	0.040	
Xylene, o-	ug/L	0.083U	0.083	
1,4-Dichlorobenzene	ug/L	0.150U	0.150	
1,2-Dichlorobenzene	ug/L	0.076U	0.076	
1,2,4-Trichlorobenzene	ug/L	0.117U	0.117	
1,1-Dichloroethane	ug/L	0.075U	0.075	
4-Bromofluorobenzene (S)	%	88	70-130	
1,2-Dichlorobenzene-d4 (S)	%	93	70-130	
Xylenes (total)	ug/L	0.210U	0.210	

LABORATORY CONTROL SAMPLE: 17838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Volatiles						
Vinyl chloride	ug/L	5	5.32	106	70-130	
1,1-Dichloroethene	ug/L	5	4.50	90	70-130	
Methylene chloride	ug/L	5	3.82	76	70-130	

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QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE: 17838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	5	4.47	89	70-130	
cis-1,2-Dichloroethene	ug/L	5	4.14	83	70-130	
Chloroform	ug/L	5	4.35	87	70-130	
1,2-Dichloroethane	ug/L	5	4.32	86	70-130	
1,1,1-Trichloroethane	ug/L	5	4.31	86	70-130	
Benzene	ug/L	5	4.18	84	70-130	
Carbon tetrachloride	ug/L	5	4.38	88	70-130	
1,2-Dichloropropane	ug/L	5	4.32	86	70-130	
Trichloroethene	ug/L	5	4.52	90	70-130	
Bromodichloromethane	ug/L	5	4.08	81.6	70-130	
Toluene	ug/L	5	4.45	89	70-130	
Dibromochloromethane	ug/L	5	4.62	92.4	70-130	
Tetrachloroethene	ug/L	5	4.66	93	70-130	
Chlorobenzene	ug/L	5	4.76	95	70-130	
Ethylbenzene	ug/L	5	4.51	90	70-130	
Xylene, m,p-	ug/L	10	9.01	90	70-130	
Bromoform	ug/L	5	4.06	81.2	70-130	
Styrene	ug/L	5	4.23	85	70-130	
Xylene, o-	ug/L	5	4.35	87	70-130	
1,4-Dichlorobenzene	ug/L	5	4.71	94	70-130	
1,2-Dichlorobenzene	ug/L	5	4.62	92	70-130	
1,2,4-Trichlorobenzene	ug/L	5	4.29	86	70-130	
1,1-Dichloroethane	ug/L	5	4.46	89	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
Xylenes (total)	ug/L		13.4			

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QUALITY CONTROL DATA

QC Batch: MICP/1259 Analysis Method: SM 5210B BOD

QC Batch Method: BOD PREP

 Associated Lab Samples: 901835002 901840001 901842001 901852001 901852002 901853003
 901872001 901873001

METHOD BLANK: 17849

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry BOD	mg/L	2.0U	2.0	

LABORATORY CONTROL SAMPLE: 17851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Wet Chemistry BOD	mg/L	198	107	54	85-115	J

SAMPLE DUPLICATE: 17852 Original: 901842001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Wet Chemistry BOD	mg/L	5.63	5.68	0.9	20	

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QUALITY CONTROL DATA

QC Batch: SOLI/1497 Analysis Method: SM 2540 C
 QC Batch Method: SM 2540 C

Associated Lab Samples:	901780001	901828002	901828004	901835001	901840001	901842001
	901852001	901852002	901872001	901873001	901880001	901894001
	901894002	901922001	901922002	901922003	901922004	901922005
	901922006					

METHOD BLANK: 17860

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry				
Total Dissolved Solids(TDS)	mg/L	7.00U	7.00	

SAMPLE DUPLICATE: 17861 Original: 901828002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Wet Chemistry						
Total Dissolved Solids(TDS)	mg/L	101	96.0	5.1	20	

SAMPLE DUPLICATE: 17862 Original: 901922006

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Wet Chemistry						
Total Dissolved Solids(TDS)	mg/L	772	744	3.7	20	

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QUALITY CONTROL DATA

QC Batch: MSV/1454 Analysis Method: EPA 624
 QC Batch Method: EPA 624
 Associated Lab Samples: 901839001 901842001 901843002 901850002 901850003 901852002
 901852003 901853002 901908001 901908002 901910001 901910002

METHOD BLANK: 17874

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Volatiles				
Acrolein	ug/L	2.47U	2.47	
Chloromethane	ug/L	0.524U	0.524	
Vinyl chloride	ug/L	0.506U	0.506	
Bromomethane	ug/L	0.427U	0.427	
Chloroethane	ug/L	0.710U	0.710	
1,1-Dichloroethene	ug/L	0.640U	0.640	
Methylene chloride	ug/L	0.240U	0.240	
trans-1,2-Dichloroethene	ug/L	0.410U	0.410	
Acrylonitrile	ug/L	0.955U	0.955	
1,1-Dichloroethane	ug/L	0.410U	0.410	
cis-1,2-Dichloroethene	ug/L	0.442U	0.442	
Chloroform	ug/L	0.572U	0.572	
1,1,1-Trichloroethane	ug/L	0.680U	0.680	
Carbon tetrachloride	ug/L	0.468U	0.468	
Benzene	ug/L	0.621U	0.621	
1,2-Dichloroethane	ug/L	0.897U	0.897	
Trichloroethene	ug/L	0.821U	0.821	
1,2-Dichloropropane	ug/L	0.725U	0.725	
2-Chloroethylvinyl ether	ug/L	0.466U	0.466	
Bromodichloromethane	ug/L	0.140U	0.140	
cis-1,3-Dichloropropene	ug/L	0.664U	0.664	
Toluene	ug/L	0.389U	0.389	
trans-1,3-Dichloropropene	ug/L	0.522U	0.522	
1,1,2-Trichloroethane	ug/L	0.840U	0.840	
Tetrachloroethene	ug/L	0.312U	0.312	
Dibromochloromethane	ug/L	0.378U	0.378	
Chlorobenzene	ug/L	0.316U	0.316	
Ethylbenzene	ug/L	0.323U	0.323	
Bromoform	ug/L	0.486U	0.486	
1,1,2,2-Tetrachloroethane	ug/L	0.570U	0.570	
Xylene, m,p-	ug/L	0.639U	0.639	
Xylene, o-	ug/L	0.341U	0.341	
4-Bromofluorobenzene (S)	%	92	64-130	
Dibromofluoromethane (S)	%	117	69-134	
Toluene d8 (S)	%	102	63-127	

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QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE: 17875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Volatiles						
Acrolein	ug/L	100	69.1	69	2-93	
Chloromethane	ug/L	20	23.2	116	46-173	
Vinyl chloride	ug/L	20	25.4	127	60-162	
Bromomethane	ug/L	20	19.2	96	33-170	
Chloroethane	ug/L	20	30.0	150	50-163	
1,1-Dichloroethene	ug/L	20	22.2	111	54-157	
Methylene chloride	ug/L	20	23.1	115	42-182	
trans-1,2-Dichloroethene	ug/L	20	22.7	113	49-164	
Acrylonitrile	ug/L	100	113	113	3-107	3,J
1,1-Dichloroethane	ug/L	20	22.0	110	60-167	
cis-1,2-Dichloroethene	ug/L	20	19.4	97	51-157	
Chloroform	ug/L	20	19.2	96	60-164	
1,1,1-Trichloroethane	ug/L	20	19.4	97	45-154	
Carbon tetrachloride	ug/L	20	20.2	101	45-154	
Benzene	ug/L	20	18.7	94	59-158	
1,2-Dichloroethane	ug/L	20	20.9	104	45-166	
Trichloroethene	ug/L	20	19.0	95	59-152	
1,2-Dichloropropane	ug/L	20	19.3	97	65-155	
2-Chloroethylvinyl ether	ug/L	20	13.8	69	2-176	
Bromodichloromethane	ug/L	20	18.2	91	64-146	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	53-146	
Toluene	ug/L	20	19.7	99	62-149	
trans-1,3-Dichloropropene	ug/L	20	17.9	89	51-150	
1,1,2-Trichloroethane	ug/L	20	19.9	99	62-159	
Tetrachloroethene	ug/L	20	16.7	84	50-150	
Dibromochloromethane	ug/L	20	17.2	86	51-139	
Chlorobenzene	ug/L	20	17.2	86	64-144	
Ethylbenzene	ug/L	20	18.2	91	59-149	
Bromoform	ug/L	20	12.8	64	16-166	
1,1,2,2-Tetrachloroethane	ug/L	20	16.1	80	52-177	
Xylene, m,p-	ug/L	40	36.7	92	57-153	
Xylene, o-	ug/L	20	17.4	87	69-144	
4-Bromofluorobenzene (S)	%			95	64-130	
Dibromofluoromethane (S)	%			103	69-134	
Toluene d8 (S)	%			103	63-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17876 17877 Original: 901852002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles											
Acrolein	ug/L	0	100	33.7	35.1	34	35	2-93	3	20	
Chloromethane	ug/L	0	20	23.3	23.8	116	119	46-173	3	20	
Vinyl chloride	ug/L	0	20	24.4	23.6	122	118	60-162	3	20	

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QUALITY CONTROL DATA

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17876

17877

Original: 901852002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
Bromomethane	ug/L	0	20	12.7	13.3	64	66	33-170	3	20	
Chloroethane	ug/L	0	20	29.1	27.7	145	138	50-163	5	20	
1,1-Dichloroethene	ug/L	0	20	23.5	22.9	118	115	54-157	3	20	
Methylene chloride	ug/L	0	20	24.8	23.4	124	117	42-182	6	20	
trans-1,2-Dichloroethene	ug/L	0	20	24.3	23.3	121	116	49-164	4	20	
Acrylonitrile	ug/L	0	100	125	122	125	122	3-107	2	20	J,5
1,1-Dichloroethane	ug/L	0	20	23.2	23.1	116	116	60-167	0	20	
cis-1,2-Dichloroethene	ug/L	0	20	19.8	19.8	99	99	51-157	0	20	
Chloroform	ug/L	1.93	20	21.6	21.5	98	98	60-164	0	20	
1,1,1-Trichloroethane	ug/L	0	20	19.9	20.3	100	102	45-154	2	20	
Carbon tetrachloride	ug/L	0	20	20.9	20.7	105	104	45-154	1	20	
Benzene	ug/L	0	20	19.3	19.2	96	96	59-158	0	20	
1,2-Dichloroethane	ug/L	0	20	21.7	21.7	109	108	45-166	0.9	20	
Trichloroethene	ug/L	0	20	20.2	20.0	101	100	59-152	1	20	
1,2-Dichloropropane	ug/L	0	20	19.8	19.6	99	98	65-155	1	20	
2-Chloroethylvinyl ether	ug/L	0	20	17.0	19.7	85	99	2-176	15	20	
Bromodichloromethane	ug/L	0	20	19.4	19.3	97	96	64-146	1	20	
cis-1,3-Dichloropropene	ug/L	0	20	19.3	20.0	96	100	53-146	4	20	
Toluene	ug/L	0.31	20	20.3	20.5	102	103	62-149	1	20	
trans-1,3-Dichloropropene	ug/L	0	20	18.3	18.5	91	93	51-150	2	20	
1,1,2-Trichloroethane	ug/L	0	20	20.8	20.9	104	104	62-159	0	20	
Tetrachloroethene	ug/L	0.34	20	17.5	17.3	86	85	50-150	1	20	
Dibromochloromethane	ug/L	0	20	18.0	18.3	90	91	51-139	1	20	
Chlorobenzene	ug/L	0	20	17.4	17.9	87	90	64-144	3	20	
Ethylbenzene	ug/L	0	20	18.0	18.6	90	93	59-149	3	20	
Bromoform	ug/L	0	20	13.9	15.1	70	75	16-166	7	20	
1,1,2,2-Tetrachloroethane	ug/L	0	20	15.5	16.5	78	82	52-177	5	20	
Xylene, m,p-	ug/L	0	40	36.7	38.4	92	96	57-153	4	20	
Xylene, o-	ug/L	0	20	17.0	17.4	85	87	69-144	2	20	
4-Bromofluorobenzene (S)	%	90				92	96	64-130	4	20	
Dibromofluoromethane (S)	%	110				107	104	69-134	3	20	
Toluene d8 (S)	%	99				102	104	63-127	2	20	

MATRIX SPIKE SAMPLE: 18014

Original: 901853002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Volatiles							
Acrolein	ug/L	0	100	66.2	66	2-93	
Chloromethane	ug/L	0	20	23.2	116	46-173	
Vinyl chloride	ug/L	0	20	25.0	125	60-162	
Bromomethane	ug/L	0	20	16.5	82	33-170	
Chloroethane	ug/L	0	20	28.5	143	50-163	
1,1-Dichloroethene	ug/L	0	20	23.9	119	54-157	
Methylene chloride	ug/L	0.15	20	25.6	128	42-182	
trans-1,2-Dichloroethene	ug/L	0	20	25.9	129	49-164	
Acrylonitrile	ug/L	0	100	126	126	3-107	J,5

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QUALITY CONTROL DATA

MATRIX SPIKE SAMPLE: 18014

Original: 901853002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	0	20	24.4	122	60-167	
cis-1,2-Dichloroethene	ug/L	0	20	21.5	108	51-157	
Chloroform	ug/L	18.9	20	37.2	92	60-164	J,5
1,1,1-Trichloroethane	ug/L	0	20	21.2	106	45-154	
Carbon tetrachloride	ug/L	0	20	22.1	110	45-154	
Benzene	ug/L	0	20	20.2	101	59-158	
1,2-Dichloroethane	ug/L	0	20	21.7	109	45-166	
Trichloroethene	ug/L	0	20	20.8	104	59-152	
1,2-Dichloropropane	ug/L	0	20	21.0	105	65-155	
2-Chloroethylvinyl ether	ug/L	0	20	2.651	13	2-176	
Bromodichloromethane	ug/L	2.63	20	22.5	99	64-146	
cis-1,3-Dichloropropene	ug/L	0	20	18.4	92	53-146	
Toluene	ug/L	8.84	20	29.4	103	62-149	
trans-1,3-Dichloropropene	ug/L	0	20	18.5	92	51-150	
1,1,2-Trichloroethane	ug/L	0	20	21.0	105	62-159	
Tetrachloroethene	ug/L	0	20	18.4	92	50-150	
Dibromochloromethane	ug/L	0.32	20	19.5	98	51-139	
Chlorobenzene	ug/L	0	20	19.1	95	64-144	
Ethylbenzene	ug/L	0	20	19.9	100	59-149	
Bromoform	ug/L	0	20	15.6	78	16-166	
1,1,2,2-Tetrachloroethane	ug/L	0	20	17.5	88	52-177	
Xylene, m,p-	ug/L	0.24	40	40.5	101	57-153	
Xylene, o-	ug/L	0	20	19.0	95	69-144	
4-Bromofluorobenzene (S)	%	86			96	64-130	
Dibromofluoromethane (S)	%	116			102	69-134	
Toluene d8 (S)	%	100			101	63-127	

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QUALITY CONTROL DATA

QC Batch: INPR/1470 Analysis Method: EPA 335.4 Cyanide

QC Batch Method: EPA 335.2

Associated Lab Samples:	901742001	901742002	901780001	901825001	901835001	901839001
	901840001	901842001	901843002	901850001	901850002	901850003
	901852001	901852002	901853002	901907001	901907002	901907003
	901910001					

METHOD BLANK: 17913

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry Total Cyanide	mg/L	0.0040U	0.0040	

LABORATORY CONTROL SAMPLE & LCSD: 17914 17915

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry Total Cyanide	mg/L	0.2	0.2132	0.2143	107	107	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17916 17917 Original: 901742001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry Total Cyanide	mg/L	0	0.2	0.1988	0.2040	99	102	90-110	3	20	

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QUALITY CONTROL DATA

QC Batch: DIGM/1613 Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Associated Lab Samples: 901835001 901838001 901840001 901842001 901852001 901852002
 901872001 901873001 901901001 901910001 901919001

METHOD BLANK: 17974

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	mg/L	0.000056U	0.000056	

LABORATORY CONTROL SAMPLE: 17975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.00175	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17976 17977 Original: 901838001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Mercury	mg/L	3.3e-005	0.002	0.00200	0.00192	100	96	80-120	4	20 Q	

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QUALITY CONTROL DATA

QC Batch: INPR/1473 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1

Associated Lab Samples:	901780001	901840001	901841002	901841004	901842001	901852001
	901852002	901853003	901854003	901854005	901854006	901854007
	901855003	901857001	901896001	901896002	901896003	901896004
	901896005	901896006				

METHOD BLANK: 17990

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry				
Total Phosphorus	mg/L	0.004U	0.004	

LABORATORY CONTROL SAMPLE & LCSD: 17991 17992

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry										
Total Phosphorus	mg/L	0.5	0.512	0.521	102	104	90-110	1.9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17995 17996 Original: 901896005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry											
Total Phosphorus	mg/L	0.027	0.5	0.478	0.478	90.2	90.4	90-110	0.22	20	

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QUALITY CONTROL DATA

QC Batch: IC/1193 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples:	901778002	901821001	901833017	901835001	901838001	901840001
	901841005	901842001	901852001	901852002	901872001	901896001
	901896002	901896004	901896006	901907003		

METHOD BLANK: 18051

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry Chloride	mg/L	0.066U	0.066	

LABORATORY CONTROL SAMPLE & LCSD: 18052 18053

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry Chloride	mg/L	5	5.10	5.19	102	104	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 18054 18055 Original: 901833017

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry Chloride	mg/L			203	207						

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QUALITY CONTROL DATA

QC Batch: PH/1052 Analysis Method: SM4500H-B

QC Batch Method: SM4500H-B

Associated Lab Samples:	901835001	901838001	901840001	901842001	901852001	901852002
	901854001	901854004	901854005	901854009	901894001	901894002
	901896001	901896002	901896003	901896004	901896005	901896006
	901909001					

SAMPLE DUPLICATE: 18165 Original: 901896001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
Wet Chemistry					
pH	pH unit	7.24	7.29	0.7	20

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QUALITY CONTROL DATA

QC Batch: SPCD/1026 Analysis Method: EPA 120.1

QC Batch Method: EPA 120.1

Associated Lab Samples:	901784001	901785010	901785011	901841004	901841005	901842001
	901852001	901852002	901894001	901894002	901989001	901989002
	901989003	901989004	901989005	901989006		

METHOD BLANK: 18272

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry Specific Conductance	umhos/c	2U	2	

SAMPLE DUPLICATE: 18273 Original: 901784001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Wet Chemistry Specific Conductance	umhos/c	1384	1407	2		

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QUALITY CONTROL DATA

QC Batch: INPR/1484 Analysis Method: EPA 351.2
 QC Batch Method: EPA 351.2

Associated Lab Samples:	901780001	901811002	901821001	901821002	901823001	901840001
	901841004	901841005	901841006	901842001	901852001	901852002
	901853003	901854003	901854006	901854008	901855003	901857001
	901880001					

METHOD BLANK: 18613

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Wet Chemistry				
Total Kjeldahl Nitrogen	mg/L-N	0.2661	0.22	

LABORATORY CONTROL SAMPLE & LCSD: 18614 18615

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry										
Total Kjeldahl Nitrogen	mg/L-N	5	4.56	5.22	91.1	104	90-110	13.2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 18616 18617 Original: 901811002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Wet Chemistry											
Total Kjeldahl Nitrogen	mg/L-N	6.44	5	9.74	11.0	66.1	92.1	90-110	32.9	20	

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QUALITY CONTROL DATA QUALIFIERS**QUALITY CONTROL PARAMETER QUALIFIERS**

- J Estimated value.
- Q Holding time exceeded.
- V Present in blank.
- [3] NCR-LCS and/or LCSD recoveries above acceptable limits. The reported target analyte is below detection limits establishing that there is no high biased result reported
- [5] MS and/or MSD recoveries outside control limits. However, LCS and/or LCSD within limits. Data reported.
- [6] NCR-% RPD exceeds control limits

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QUALITY CONTROL CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
901842001	COMBINED EFFLUENT	EPA 625	EXTO/1744	EPA 625	MSSV/1248
901842001	COMBINED EFFLUENT	EPA 1664A	EXTO/1745		
901842001	COMBINED EFFLUENT	EPA 504.1	EXTO/1746	EPA 504.1	GCSV/1399
901842001	COMBINED EFFLUENT	SM 2150 B	MISC/1114		
901842001	COMBINED EFFLUENT	EPA 365.1	LACH/1768		
901842001	COMBINED EFFLUENT	SM 2120B Color	HACH/1120		
901842001	COMBINED EFFLUENT	EPA 200.7	DIGM/1602	EPA 200.7	ICP/1374
901842001	COMBINED EFFLUENT	EPA 200.8	DIGM/1603	EPA 200.8	ICPM/1076
901842001	COMBINED EFFLUENT	EPA 350.1	LACH/1770		
901842001	COMBINED EFFLUENT	SM 5540 C	INPR/1468	SM 5540 C	HACH/1123
901842001	COMBINED EFFLUENT	EPA 608	EXTO/1758	EPA 608	GCSV/1401
901842001	COMBINED EFFLUENT	EPA 300.0	IC/1189		
901842001	COMBINED EFFLUENT	EPA 524.2	MSV/1452		
901842001	COMBINED EFFLUENT	BOD PREP	MICP/1259	SM 5210B BOD	BOD/1220
901842001	COMBINED EFFLUENT	SM 2540 C	SOLI/1497		
901842001	COMBINED EFFLUENT	EPA 624	MSV/1454		
901842001	COMBINED EFFLUENT	EPA 335.2	INPR/1470	EPA 335.4 Cyanide	LACH/1791

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QUALITY CONTROL CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
901842001	COMBINED EFFLUENT	EPA 245.1	DIGM/1613	EPA 245.1	HG/1081
901842001	COMBINED EFFLUENT	EPA 365.1	INPR/1473	EPA 365.1	LACH/1784
901842001	COMBINED EFFLUENT	EPA 300.0	IC/1193		
901842001	COMBINED EFFLUENT	SM4500H-B	PH/1052		
901842001	COMBINED EFFLUENT	EPA 120.1	SPCD/1026		
901842001	COMBINED EFFLUENT	EPA 351.2	INPR/1484	EPA 351.2	LACH/1828
901842001	COMBINED EFFLUENT	1613	S_06/	1613	S_06/
901842001	COMBINED EFFLUENT	EPA 100.2	S_09/	EPA 100.2	S_09/
901842001	COMBINED EFFLUENT	EPA 508.1	S_05/	EPA 508.1	S_05/
901842001	COMBINED EFFLUENT	EPA 515.3	S_05/	EPA 515.3	S_05/
901842001	COMBINED EFFLUENT	EPA 525.2	S_05/	EPA 525.2	S_05/
901842001	COMBINED EFFLUENT	EPA 531.1	S_05/	EPA 531.1	S_05/
901842001	COMBINED EFFLUENT	EPA 547	S_05/	EPA 547	S_05/
901842001	COMBINED EFFLUENT	EPA 548.1	S_05/	EPA 548.1	S_05/
901842001	COMBINED EFFLUENT	EPA 549.2	S_05/	EPA 549.2	S_05/

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www.genapure.com

CHAIN OF CUSTODY RECORD

Log# 90184 T#S 156703 Quote: 156703 Page of

Company Name: MIAMI APEX WKS PO# 58591
Address: 9900 SW 23rd St
City: Miami State: FL Zip: 33170
Attn: CHIVE LAWELL Fax# 305580520
email: CLIVE@MIAMI.APEX.WKS

Project Name: ANALYTICAL SERVICES Proj#
Sampler Signature: [Signature] Phone# 3052558502

Sample Label (Client ID): MW-1 Matrix Code: GW Collect Time: 11:35 Collect Date: 6/16/04 Field Filled: X Integrity OK(Y/N): Total # of Containers: 1

1 Combined Effluent BPA CW 09
2 Trip Blank

LAB ANALYSIS

Sample	TRC	pH	Pres Code	Parameters	# of Containers Size/Type	Required State Certification
				COALITE POTASSIUM DICALC CELEST DIOXIN FARMING DRINKING WATER STRINGS SECONDARY DRINKING MUNICIPAL WATER MUNICIPAL WATER MUNICIPAL WATER	1 16ozP	EXAMPLE DIS: BRCRA 6010

Container Type Codes:
AV Amber Vial ES Encorn Squeeze
CV Clear Vial PVP Polypropylene Vial
AL Plastic Bottle PLS Plastic Container
PLC Plastic Bottle PLS Plastic Container
CL Clear Lid PLS Plastic Container
AP Amber Plastic TEDELAR PLS Plastic Bag
AG Amber Glass WELSP PLS Plastic Bag
SU 50ml Jar G Glass Jar
Other: _____

Matrix Codes:
SD Sealed Wellbore WW Waste Water
SH Soil HCL/NaOH/Free Water
SE Seepage GW Ground Water
SL Surface Water SW Surface Water
SU Surface Water SW Surface Water
PE Petroleum NA Non-aqueous
ML Misc. Liquid A Air
GW Ground Water D Other
E Effluent (Please Specify)
INF Influent

Pres/Codes:
A Name E HCL I Ice
B HNO3 F MeOH J MCAA
C H2SO4 G NaOH K 2nd Acetate
D NaOH H Na-HSO4 D Other

REMARKS:
Blank in case
Dibromodioxane
2-METHYLCYCL-4,4-DIMETHYLOXOLAN-2-ONE
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
CALL 3059893399

Item	Relinquished by	Affiliation	Date	Time	Lab Use Only
1	<u>Chive Lawell</u>	<u>MIAMI APEX WKS</u>	<u>2/19/04</u>	<u>12:30</u>	Sample INTACT upon arrival? Received on Wet Ice? Temp: <u> </u> °C Proper Preservation? Indictor? <u> </u> Received within holding time? <u> </u> Closely sealed intact? <u> </u> Visible leaks without headspace? <u> </u> Finger-Containers Used? <u> </u>
2	<u>John Fure</u>	<u>GENS</u>	<u>2/19/04</u>	<u>15:25</u>	

Short Hold: None 1 2 3 Other
Received by: [Signature] Date: 2/19/04 Time: 12:30
Relinquished by: [Signature] Date: 2/19/04 Time: 15:25
Initials: ML Date: 2/19/04 Time: 15:25
Coolers #'s:

199124

3/17/2009 11:01:49AM

Client: Miami Dade County
8950 SW 232 Street
Miami, FL 33170

Work Order: NSB1859
Project Name: Annual Rads - South District WWTP
Project Number: Requisition # 0000058565
Date Received: 02/23/09

Attn: Clive Powell

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
Combined Effluent	NSB1859-01	02/19/09 08:00
Reuse Effluent	NSB1859-02	02/19/09 10:20

subcontract analysis performed at Lab ID: E83033

Samples were received into laboratory at a temperature of 22.00 °C.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately.

Results are reported on a wet weight basis unless otherwise noted

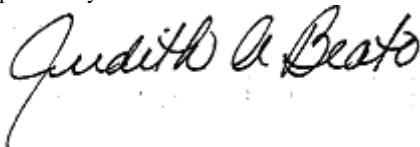
The reported results were obtained in compliance with 2003 NELAC standards unless otherwise noted.

These results relate only to the items tested

Estimated uncertainty is available upon request.

This report has been electronically signed.

Approved By:



TestAmerica Nashville
Judith A Beato
Project Manager

Client: Miami Dade County
 8950 SW 232 Street
 Miami, FL 33170
 Attn: Clive Powell

Work Order: NSB1859
 Project: Annual Rads - South District WWTP
 Project Number: Requisition # 0000058565

Sampled: 02/19/09
 Received: 02/23/09

LABORATORY REPORT

Sample ID: Combined Effluent - Lab Number: NSB1859-01 - Matrix: Water

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Subcontracted Analysis											
N/A	Gross Alpha	1.2+/-0.8	U	pCi/l	1.2	1.2	1	02/26/09 13:18	MJN	EPA 900.0	NONE
N/A	Gross Beta	19.6+/-1.1		pCi/l	1.3	1.3	1	02/26/09 13:18	MJN	EPA 900.0	NONE
13982-63-3	Radium 226	0.3+/-0.2		pCi/l	0.1	0.1	1	03/04/09 15:04	MJN	EPA 903.1	NONE
15262-20-1	Radium 228	0.7+/-0.5	U	pCi/l	0.7	0.7	1	03/02/09 14:12	PJ	EPA Ra-05	NONE

LABORATORY REPORT

Sample ID: Reuse Effluent - Lab Number: NSB1859-02 - Matrix: Water

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Subcontracted Analysis											
N/A	Gross Alpha	1.3+/-0.9	U	pCi/l	1.3	1.3	1	02/26/09 13:18	MJN	EPA 900.0	NONE
N/A	Gross Beta	22.4+/-1.2		pCi/l	1.4	1.4	1	02/26/09 13:18	MJN	EPA 900.0	NONE
13982-63-3	Radium 226	0.2+/-0.1		pCi/l	0.1	0.1	1	03/04/09 15:04	MJN	EPA 903.1	NONE
15262-20-1	Radium 228	0.7+/-0.4	U	pCi/l	0.7	0.7	1	03/02/09 14:12	PJ	EPA Ra-05	NONE

Client: Miami Dade County
8950 SW 232 Street
Miami, FL 33170
Attn: Clive Powell

Work Order: NSB1859
Project: Annual Rads - South District WWTP
Project Number: Requisition # 0000058565

Sampled: 02/19/09
Received: 02/23/09

CERTIFICATION SUMMARY

Subcontracted Laboratories

FLA Radiochemistry (11936) Florida Cert #E83033
5456 Hoffner Avenue, Suite 201 - Orlando, FL 32812
Method Performed: EPA 900.0
Samples: NSB1859-01, NSB1859-02
Method Performed: EPA 903.1
Samples: NSB1859-01, NSB1859-02
Method Performed: EPA Ra-05
Samples: NSB1859-01, NSB1859-02

DATA QUALIFIERS AND DEFINITIONS

U The compound was analyzed for but not detected

ADDITIONAL COMMENTS

When insufficient sample volume is received for Matrix Spike and Matrix Spike Duplicate, Laboratory Control Spike and Laboratory Control Spike Duplicate data is used for batch QC.



Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann

5456 Hoffner Ave., Suite 201 Orlando, FL 32812

Phone: (407) 382-7733 Fax: (407)382-7744

Work Order #: 0902169

Report Date: 03/05/09

Report to:

TestAmerica, Inc.
2960 Foster Creighton Dr.
Nashville, TN 37204
Attention: Judy Beato

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and NELAC Standards. The test results in this report relate only to the samples received.

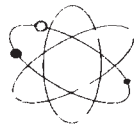
Signed Michael J. Naumann Date 3-5-09
President



Florida Radiochemistry Services, Inc.

Sample Login

Client:	TestAmerica-Nashville	Date / Time Received	Work order #
Client Contact:	Judy Beato	02/24/09 11:08	0902169
Client P.O.			
Project I.D.	NSB1859		
Lab Sample I.D.	Client Sample I.D.	Sample Date/Time	Analysis Requested
0902169-01	NSB1859-01	02/19/09 00:00	Ga, Gb, Ra226, Ra228
0902169-02	NSB1859-02	02/19/09 10:20	Ga, Gb, Ra226, Ra228



Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	0902169-01	0902169-02
Client I.D.	NSB1859-01	NSB1859-02
Gross Alpha	1.2U	1.3U
Error +/-	0.8	0.9
MDL	1.2	1.3
EPA Method	900.0	900.0
Prep Date/Time	02/25/09 06:32	02/25/09 06:32
Analysis Date/Time	02/26/09 13:18	02/26/09 13:18
Analyst	MJN	MJN
Gross Beta	19.6	22.4
Error +/-	1.1	1.2
MDL	1.3	1.4
EPA Method	900.0	900.0
Prep Date/Time	02/25/09 06:32	02/25/09 06:32
Analysis Date/Time	02/26/09 13:18	02/26/09 13:18
Analyst	MJN	MJN
Radium 226	0.3	0.2
Error +/-	0.2	0.1
MDL	0.1	0.1
EPA Method	903.1	903.1
Prep Date/Time	02/25/09 08:30	02/25/09 08:30
Analysis Date/Time	03/04/09 15:04	03/04/09 15:04
Analyst	MJN	MJN
Radium 228	0.7U	0.7U
Error +/-	0.5	0.4
MDL	0.7	0.7
EPA Method	Ra-05	Ra-05
Prep Date/Time	02/25/09 08:30	02/25/09 08:30
Analysis Date/Time	03/02/09 14:12	03/02/09 14:12
Analyst	PJ	PJ
Units	pCi/l	pCi/l



QA Page

Analyte	Sample #	Date Analyzed	Sample Result	Amount Spiked	Spike Result	Spike /Dup Result	Spike % Rec.	Spike Dup % Rpd
Gross Alpha	0902166-01	02/26/09	<1.2	10.2	9.9	10.2	97	3.0
Gross Beta	0902166-01	02/26/09	2.5	15.7	19.3	18.3	107	5.3
Radium 226	0902169-02	03/04/09	0.2	25.2	24.4	25.0	96	2.4
Radium 228	0902169-02	03/02/09	<0.7	5.8	5.4	5.9	93	8.8

	Quality	Control	Limits
	% RPD		% Rec.
Gross Alpha	23.5		62-121
Gross Beta	16.7		80-116
Radium 226	25.0		72-125
Radium 228	20.5		80-123

SUBCONTRACT ORDER

TestAmerica Nashville

NSB1859

SENDING LABORATORY:

TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Phone: 800-765-0980
Fax: 615-726-3404
Project Manager: Judith A Beato

RECEIVING LABORATORY:

FLA Radiochemistry (11936)
5456 Hoffner Avenue, Suite 201
Orlando, FL 32812
Phone : (407) 382-7733
Fax: (407) 382-7744
Project Location: Florida
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: NSB1859-01		Water		
		Sampled: 02/19/09 00:00		
Subcontract - Gross Alpha	pCi/L	03/05/09	11/14/11 23:00	FL Rad
Subcontract - Gross Beta	%	03/05/09	11/14/11 23:00	FL Rad
Subcontract - Radium 226	%	03/05/09	11/14/11 23:00	FL Rad
Subcontract - Radium 228	%	03/05/09	11/14/11 23:00	FL Rad
<i>Containers Supplied:</i>				
R_1 L Plastic HNO3 (A)	R_1 L Plastic HNO3 (B)			

Sample ID: NSB1859-02		Water		
		Sampled: 02/19/09 10:20		
Subcontract - Gross Alpha	pCi/L	03/05/09	11/15/11 09:20	FL Rad
Subcontract - Gross Beta	%	03/05/09	11/15/11 09:20	FL Rad
Subcontract - Radium 226	%	03/05/09	11/15/11 09:20	FL Rad
Subcontract - Radium 228	%	03/05/09	11/15/11 09:20	FL Rad
<i>Containers Supplied:</i>				
R_1 L Plastic HNO3 (A)	R_1 L Plastic HNO3 (B)			

Wesley Beato
Released By

2/24/09
Date/Time

Swodes 2/24/09 11:08
Received By Date/Time

Released By

Date/Time

Received By Date/Time

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

4310 East Anderson Road * Orlando, FL 32812 * 407-851-2560 * Fax: 407-856-0886 * 800-851-

Client: Miami Dade County

Project: NSB1859

Shipped By: Fed Ex

Tracking Number: 869244073494

Cooler Received On: 02/23/09 14:50

And Opened On (Date/time): 2/23/09 14:50

Received By: Wesley Hoertt

Logged in by: Wesley Hoertt

Were custody seals on the outside of cooler? YES ___ NO If Yes # ___ Location _____

Were custody seals intact? YES ___ NO ___ N/A (no seals present)

Chain of Custody Complete? YES NO ___

Discrepancy Comments:

Cooler Tempature When Opened: 22.00 Degrees Celsius

Tempature Blank Included: YES ___ NO

Packing Material: Bubblewrap ___ NONE ___ Other: Plastic

Received on Ice: YES NO ___ Other: _____ Total # Of Containers: 4 # Vials ___

Any Bottles Broken? YES ___ NO If Yes Which One(s)? _____

Any Missing Samples? YES ___ NO If Yes Which One(s)? _____

pH Levels: H2SO4 <=2? ___ HNO3 <=2? ___ HCL <=2? ___ NaOH >=10? ___

Of Containers Unpreserved between 6 and 8? _____

Any Air Bubbles in VOA Vials? YES ___ NO ___ N/A (no VOA vials received)

Was there enough sample shipped in each container? YES NO ^{with} _{2/23/09}

Correct Preservatives Used? YES ___ NO If No, see comments:

Project Manager: Judith A Beato

Corrective Actions Taken

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Orlando Division
4310 East Anderson Road
Orlando, FL 32812

Phone 407-851-2560 or 800-851-2560
Fax 407-856-0886

Client Name

Miami Dade Watershed

Client #:

Address:

8950 SW 232 ST

City/State/Zip Code:

Miami FL 33170

Project Manager:

Clive Powell

Telephone Number:

305288098

Fax:

3052881350

Sampler Name: (Print Name)

Clive Powell

Sampler Signature:



Project Name:

Annual Sampling

Project #:

Southwest WTP

State: FL

Report To:

Clive Powell

Invoice To:

Clive Powell

Quote #:

58565

12B1859



To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?

Compliance Monitoring

Yes

TAY Standard <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Flush (surcharges may apply)	Date Needed:	Fax Results: Y N	SAMPLE ID	Date Sampled	Time Sampled	Field Filtered	Matrix	Preservation & # of Containers							QC Deliverables	REMARKS									
								HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)			Analyze For:	None	Level 2	(Batch QC)	Level 3	Level 4	Other:		
			Combined Effluent	2/19/09	10:40		WW																		
			Reuse Effluent	2/19/09	10:20		WW																		

Special Instructions:

Relinquished By:  Date: 2/19/09 Time: 15:00 Received By:  Date: 2/22/09 Time: 14:50

Relinquished By: Date: Time: Received By: Date: Time: Relinquished By: Date: Time: Received By: Date: Time:

LABORATORY COMMENTS:
 Init. Lab Temp: 22.0°C
 Rec. Lab Temp:
 Custody/Seals: Y N N/A
 Bottles Supplied by TestAmerica: Y N
 Method of Shipment:

SUBCONTRACT ORDER

TestAmerica Nashville

NSB1859

SENDING LABORATORY:


TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Phone: 800-765-0980
Fax: 615-726-3404
Project Manager: Judith A Beato

RECEIVING LABORATORY:

FLA Radiochemistry (11936)
5456 Hoffner Avenue, Suite 201
Orlando, FL 32812
Phone : (407) 382-7733
Fax: (407) 382-7744
Project Location: Florida
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: NSB1859-01	Water		Sampled: 02/19/09 00:00	
Subcontract - Gross Alpha	pCi/L	03/05/09	11/14/11 23:00	FL Rad
Subcontract - Gross Beta	%	03/05/09	11/14/11 23:00	FL Rad
Subcontract - Radium 226	%	03/05/09	11/14/11 23:00	FL Rad
Subcontract - Radium 228	%	03/05/09	11/14/11 23:00	FL Rad
<i>Containers Supplied:</i>				
R_1 L Plastic HNO3 (A)	R_1 L Plastic HNO3 (B)			

Sample ID: NSB1859-02	Water		Sampled: 02/19/09 10:20	
Subcontract - Gross Alpha	pCi/L	03/05/09	11/15/11 09:20	FL Rad
Subcontract - Gross Beta	%	03/05/09	11/15/11 09:20	FL Rad
Subcontract - Radium 226	%	03/05/09	11/15/11 09:20	FL Rad
Subcontract - Radium 228	%	03/05/09	11/15/11 09:20	FL Rad
<i>Containers Supplied:</i>				
R_1 L Plastic HNO3 (A)	R_1 L Plastic HNO3 (B)			



Released By

2/24/09

Date/Time

Received By Date/Time

Released By

Date/Time

Received By Date/Time



Water & Sewer
P.O. Box 330316 • 3071 SW 38th Avenue
Miami, Florida 33233-0316
T 305-665-7471

miamidade.gov

Carlos Alvarez, Mayor

April 12, 2010

Certified Mail: 7001 0360 0001 6784 1505
Return Receipt
CNN: 54195

Mr. Joseph R. May, P.G.
UIC Program Manager
Florida Department of Environmental Protection
400 North Congress Avenue, Suite 200
West Palm Beach, Florida 33401

Subject: Annual Wastestream Analysis South District Wastewater Treatment Plant (WWTP),
Permits 61787-022-UO, and 61787-014-UC through 61787-017-UC

Dear Mr. May:

In accordance FAC 62-550, specific condition 3.i of the referenced operation permits, and specific condition 6.l of the referenced construction permits, attached please find the 2010 sampling results for the annual wastestream analysis of primary, secondary drinking water standards, and minimum criteria.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me at (786) 552-8116 or Richard M. O'Rourke at (786) 552-8123, if there are any questions regarding this submittal.

Sincerely,

Vicente E. Arrebola, P.E.
Assistant Director, Wastewater System Operations

VEA/RMO/ab

cc: T. Brown, FDEP/SED

Attachment: South District WWTP – 2010 Annual Wastestream Analysis Sampling Results

Delivering Excellence Every Day

Analytical Report 363251

for

Miami Dade Water & Sewer

Project Manager: CLIVE POWELL

ANNUAL PRIORITY POLLUTANTS

80263

17-MAR-10



Florida Testing Services, LLC



Genapure™
Analytical Services, Inc.



3231 NW 7th Avenue, Boca Raton, FL 33431

Ph:(561) 447-7373 Fax:(561) 447-7374

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAC000312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL00449):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295)



17-MAR-10

Project Manager: **CLIVE POWELL**

Miami Dade Water & Sewer

8950 SW 232 Street

Miami, FL 33190

Reference: XENCO Report No: **363251**

ANNUAL PRIORITY POLLUTANTS

Project Address:

CLIVE POWELL:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 363251. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 363251 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mike Kimmel

Office Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 363251



Miami Dade Water & Sewer, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SD-COMBINED EFFLUENT	W	Feb-23-10 08:00		363251-001



Certificate of Analytical Results 363251

Miami Dade Water & Sewer, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: BOD by SM5210B						Prep Method: SM5210P		
Analyst: RAF		Date Prep: Feb-24-10 23:44		Tech: RCA				
Seq Number: 795974								
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Biochemical Oxygen Demand, 5 day		5.80	2.00	1.50	mg/L	03/01/10 20:14		1
Analytical Method: Carbamates by EPA 531.1						Prep Method:		
Analyst: SUB		Date Prep:		Tech: SUB				
Seq Number: 797232		SUB: E87836						
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Carbofuran	1563-66-2	U	0.900	0.352	ug/L	03/03/10 10:00	U	1
Oxamyl	23135-22-0	U	2.00	0.169	ug/L	03/03/10 10:00	U	1
Analytical Method: Chlorinated Acids in Water by EPA 515.1						Prep Method: E515.1P		
Analyst: SUB		Date Prep: Mar-02-10 10:00		Tech: SUB				
Seq Number: 797237		SUB: E87836						
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
2,4-D	94-75-7	0.671	0.100	0.067	ug/L	03/03/10 12:00		1
Dalapon	75-99-0	U	1.00	0.771	ug/L	03/03/10 12:00	U	1
Dinoseb	88-85-7	U	0.200	0.093	ug/L	03/03/10 12:00	U	1
Pentachlorophenol *	87-86-5	U	0.040	0.018	ug/L	03/03/10 12:00	U	1
Picloram	6-60-7	U	0.100	0.053	ug/L	03/03/10 12:00	U	1
2,4,5-TP (Silvex)	93-72-1	U	0.200	0.096	ug/L	03/03/10 12:00	U	1
Analytical Method: Color by SM2120B						Prep Method:		
Analyst: MID		Date Prep:		Tech: MID				
Seq Number: 795130								
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Color	1605	40	1.0	0.50	CU	02/23/10 18:20		1
Analytical Method: EDB, DBCP & 123TCP by EPA 504.1						Prep Method: E504.1P		
Analyst: MIS		Date Prep: Mar-01-10 02:19		Tech: MIS				
Seq Number: 796033								
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.010	0.006	ug/L	03/02/10 02:19	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	0.020	0.003	ug/L	03/02/10 02:19	U	1

Project: Florida Standard List of Methods

Version: 1.049



Certificate of Analytical Results 363251

Miami Dade Water & Sewer, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: EPA 900						Prep Method: SW3510C		
Analyst: SUB		Date Prep: Feb-27-10 10:00		Tech: SUB				
Seq Number: 796774		SUB: E87688						
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Beta, gross		11.0+/-2.5	4.00	3.58	pCi/L	02/27/10 12:00		1
Alpha, Gross		U+/-1.9	3.00	2.28	pCi/L	02/27/10 12:00	U	1
Analytical Method: Endothall by 548.1						Prep Method: E548P		
Analyst: SUB		Date Prep: Mar-01-10 10:00		Tech: SUB				
Seq Number: 797235		SUB: E87836						
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Endothal	145-73-3	U	9.00	2.10	ug/L	03/02/10 12:00	U	1
Analytical Method: Glyphosate by EPA 547						Prep Method: SW3510C		
Analyst: SUB		Date Prep: Mar-03-10 10:00		Tech: SUB				
Seq Number: 797236								
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Glyphosate	1071-83-6	U	6.00	1.20	ug/L	03/03/10 12:00	U	1
Analytical Method: Inorganic Anions by EPA 300						Prep Method: E300P		
Analyst: ZOE		Date Prep: Feb-24-10 19:06		Tech: ZOE				
Seq Number: 795371								
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Fluoride	16984-48-8	0.686	2.00	0.300	mg/L	02/24/10 19:06	I	10
Chloride	16887-00-6	81.4	5.00	0.664	mg/L	02/24/10 19:06		10
Nitrite as N	7727-37-9	0.554	0.500	0.053	mg/L	02/24/10 19:06		10
Sulfate	14808-79-8	28.4	5.00	0.755	mg/L	02/24/10 19:06		10
Nitrate as N	7727-37-9	0.467	0.500	0.074	mg/L	02/24/10 19:06	I	10
Analytical Method: MBAS Surfactants by SM5540C						Prep Method:		
Analyst: ARM		Date Prep:		Tech: CCAB				
Seq Number: 795249								
Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Surfactants		0.233	0.100	0.043	mg/L	02/24/10 10:00		1

Project: Florida Standard List of Methods

Version: 1.049



Certificate of Analytical Results 363251

Miami Dade Water & Sewer, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: Metals per ICP/MS by EPA 200.8	Prep Method: E200.8P
Analyst: DAF Seq Number: 795978	Date Prep: Feb-24-10 10:17 Tech: TIB

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	U	5.00	1.07	ug/L	02/26/10 21:59	U	1
Arsenic	7440-38-2	1.60	5.00	0.800	ug/L	02/26/10 21:59	I	1
Beryllium	7440-41-7	U	4.00	0.600	ug/L	02/26/10 21:59	U	1
Cadmium	7440-43-9	U	5.00	0.600	ug/L	02/26/10 21:59	U	1
Chromium	7440-47-3	1.30	5.00	0.354	ug/L	02/26/10 21:59	I	1
Copper	7440-50-8	4.40	2.00	0.211	ug/L	02/26/10 21:59		1
Lead	7439-92-1	U	5.00	0.947	ug/L	02/26/10 21:59	U	1
Mercury	7439-97-6	U	0.2000	0.0190	ug/L	02/26/10 21:59	U	1
Nickel	7440-02-0	2.50	5.00	0.293	ug/L	02/26/10 21:59	I	1
Selenium	7782-49-2	1.90	5.00	1.78	ug/L	02/26/10 21:59	I	1
Silver	7440-22-4	U	5.00	0.803	ug/L	02/26/10 21:59	U	1
Thallium	7440-28-0	U	2.00	0.269	ug/L	02/26/10 21:59	U	1
Zinc	7440-66-6	18.6	5.00	0.915	ug/L	02/26/10 21:59	V	1

Analytical Method: Nitrogen, Ammonia by EPA 350.1	Prep Method:
Analyst: IDG Seq Number: 796217	Date Prep: Tech: IDG

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Nitrogen, Ammonia (as N)	7664-41-7	22.3	0.320	0.080	mg/L	03/02/10 15:32		5

Analytical Method: Nitrogen, Kjeldahl, Total by EPA 351.2	Prep Method:
Analyst: IDG Seq Number: 795914	Date Prep: Tech: IDG

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Nitrogen, Total Kjeldahl	7727-37-9	24.4	1.50	0.370	mg/L	03/01/10 14:00		5

Analytical Method: ODOR by SM2150B	Prep Method:
Analyst: MID Seq Number: 795132	Date Prep: Tech: MID

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Odor		64	1.0	1.0	T.O.N	02/23/10 18:15		1

Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: Oil and Grease by EPA 1664A	Prep Method:
Analyst: LWE	Date Prep:
Seq Number: 795791	Tech: JSL

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Oil & Grease, HEM		U	4.00	1.43	mg/L	02/26/10 19:00	U	1

Analytical Method: Organochlorine Pesticides and PCBs by EPA 608	Prep Method: E608P
Analyst: SBR	Date Prep: Feb-27-10 01:00
Seq Number: 796553	Tech: ROR

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
PCB 1016/1260		U	0.5000	0.1101	ug/L	03/03/10 09:41	U	1
4,4-DDD	72-54-8	U	0.1000	0.0010	ug/L	03/03/10 09:41	U	1
4,4-DDE	72-55-9	U	0.1000	0.0015	ug/L	03/03/10 09:41	U	1
4,4-DDT	50-29-3	U	0.1000	0.0012	ug/L	03/03/10 09:41	U	1
Aldrin	309-00-2	U	0.0500	0.0014	ug/L	03/03/10 09:41	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0009	ug/L	03/03/10 09:41	U	1
Beta-BHC	319-85-7	U	0.0200	0.0012	ug/L	03/03/10 09:41	U	1
Chlordane	57-74-9	U	1.000	0.0063	ug/L	03/03/10 09:41	U	1
Delta-BHC	319-86-8	U	0.0500	0.0009	ug/L	03/03/10 09:41	U	1
Dieldrin	60-57-1	U	0.0500	0.0011	ug/L	03/03/10 09:41	U	1
Endosulfan I	959-98-8	U	0.0500	0.0010	ug/L	03/03/10 09:41	U	1
Endosulfan II	33213-65-9	U	0.1000	0.0013	ug/L	03/03/10 09:41	U	1
Endosulfan Sulfate	1031-07-8	U	0.1000	0.0003	ug/L	03/03/10 09:41	U	1
Endrin	72-20-8	U	0.1000	0.0007	ug/L	03/03/10 09:41	U	1
Endrin Aldehyde	7421-93-4	U	0.1000	0.0007	ug/L	03/03/10 09:41	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.0006	ug/L	03/03/10 09:41	U	1
Heptachlor	76-44-8	U	0.0500	0.0015	ug/L	03/03/10 09:41	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.0012	ug/L	03/03/10 09:41	U	1
Methoxychlor	72-43-5	U	0.0500	0.0009	ug/L	03/03/10 09:41	U	1
Toxaphene	8001-35-2	U	3.000	0.0471	ug/L	03/03/10 09:41	U	1
PCB-1016	12674-11-2	U	0.5000	0.0124	ug/L	03/03/10 09:41	U	1
PCB-1221	11104-28-2	U	0.5000	0.0139	ug/L	03/03/10 09:41	U	1
PCB-1232	11141-16-5	U	0.5000	0.1900	ug/L	03/03/10 09:41	U	1
PCB-1242	53469-21-9	U	0.5000	0.0137	ug/L	03/03/10 09:41	U	1
PCB-1248	12672-29-6	U	0.5000	0.0085	ug/L	03/03/10 09:41	U	1
PCB-1254	11097-69-1	U	0.5000	0.0136	ug/L	03/03/10 09:41	U	1
PCB-1260	11096-82-5	U	0.5000	0.0151	ug/L	03/03/10 09:41	U	1

Certificate of Analytical Results 363251

Miami Dade Water & Sewer, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: **SD-COMBINED EFFLUENT** Matrix: **Water** % Moisture:
Lab Sample Id: **363251-001** Date Collected: **Feb-23-10 08:00**
Date Received: **Feb-23-10 17:00**

Analytical Method: Organohalide Pesticides and PCBs in Water by EPA 505 Prep Method: E505P
Analyst: SUB Date Prep: Mar-04-10 10:00 Tech: SUB
Seq Number: 797238 SUB: E87836

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Chlordane (Technical)	57-74-9	U	0.200	0.049	ug/L	03/05/10 12:00	U	1
Toxaphene	8001-35-2	U	1.00	0.670	ug/L	03/05/10 12:00	U	1
PCB-1016	12674-11-2	U	0.080	0.017	ug/L	03/05/10 12:00	U	1
PCB-1221	11104-28-2	U	0.100	0.031	ug/L	03/05/10 12:00	U	1
PCB-1232	11141-16-5	U	0.100	0.040	ug/L	03/05/10 12:00	U	1
PCB-1242	53469-21-9	U	0.100	0.057	ug/L	03/05/10 12:00	U	1
PCB-1248	12672-29-6	U	0.100	0.074	ug/L	03/05/10 12:00	U	1
PCB-1254	11097-69-1	U	0.100	0.064	ug/L	03/05/10 12:00	U	1
PCB-1260	11096-82-5	U	0.100	0.098	ug/L	03/05/10 12:00	U	1
Total PCBs	1336-36-3	U	0.100	0.098	ug/L	03/05/10 12:00	U	1

Analytical Method: Ortho-Phosphorus by EPA 365.1 Prep Method:
Analyst: IRU Date Prep: Tech: CCAB
Seq Number: 795386

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Ortho-Phosphate as P	7723-14-0	2.3400	0.060	0.0180	mg/L	02/25/10 08:29		2

Analytical Method: Pri / Sec ICP-AES Metals by EPA 200.7 Prep Method: E200.7P
Analyst: IST Date Prep: Feb-24-10 10:21 Tech: TIB
Seq Number: 796340

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Aluminum	7429-90-5	U	200	46.0	ug/L	03/03/10 01:10	U	1
Iron	7439-89-6	134	100	45.0	ug/L	03/03/10 01:10		1
Molybdenum	7439-98-7	U	5.00	3.00	ug/L	03/03/10 01:10	U	1
Sodium	7440-23-5	56800	250	74.0	ug/L	03/03/10 01:10		1
Zinc	7440-66-6	16.5	25.0	5.30	ug/L	03/03/10 01:10	I	1



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**Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS**

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: Pri/Sec Metals per ICP/MS by EPA 200.8	Prep Method: E200.8P
Analyst: DAF	Date Prep: Feb-24-10 10:17
Seq Number: 795978	Tech: TIB

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	1.50	5.00	1.07	ug/L	03/12/10 11:31	I	1
Arsenic	7440-38-2	1.50	5.00	0.800	ug/L	03/12/10 11:31	I	1
Barium	7440-39-3	8.30	5.00	2.20	ug/L	03/12/10 11:31		1
Beryllium	7440-41-7	U	4.00	0.600	ug/L	03/12/10 11:31	U	1
Cadmium	7440-43-9	U	5.00	0.600	ug/L	03/12/10 11:31	U	1
Chromium	7440-47-3	1.20	5.00	0.354	ug/L	03/12/10 11:31	I	1
Copper	7440-50-8	3.90	2.00	0.211	ug/L	03/12/10 11:31		1
Lead	7439-92-1	U	5.00	0.947	ug/L	03/12/10 11:31	U	1
Manganese	7439-96-5	11.2	5.00	1.50	ug/L	03/12/10 11:31		1
Nickel	7440-02-0	2.10	5.00	0.293	ug/L	03/12/10 11:31	I	1
Selenium	7782-49-2	3.70	5.00	1.78	ug/L	03/12/10 11:31	I	1
Silver	7440-22-4	U	5.00	0.803	ug/L	03/12/10 11:31	U	1
Thallium	7440-28-0	0.500	2.00	0.269	ug/L	03/12/10 11:31	I	1

Analytical Method: Radium 226 by EPA 903.1	Prep Method: E903P
Analyst: SUB	Date Prep: Mar-02-10 10:00
Seq Number: 796775	Tech: SUB
	SUB: E87688

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Radium-226	7440-14-4	U+/-0.11	1.00	0.740	pCi/L	03/02/10 12:00	U	1

Analytical Method: Radium 228 by RA-05	Prep Method: SW3510C
Analyst: SUB	Date Prep: Mar-01-10 10:00
Seq Number: 796777	Tech: SUB
	SUB: E87688

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Radium-228	15262201	U+/-0.13	1.00	0.920	pCi/L	03/10/10 12:00	U	1



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Miami Dade Water & Sewer, Miami, FL

ANNUAL PRIORITY POLLUTANTS

Sample Id: **SD-COMBINED EFFLUENT** Matrix: **Water** % Moisture:
Lab Sample Id: **363251-001** Date Collected: **Feb-23-10 08:00**
Date Received: **Feb-23-10 17:00**

Analytical Method: SVOCs by EPA 525.2 **Prep Method:** E525P
Analyst: SUB Date Prep: Feb-26-10 10:00 Tech: SUB
Seq Number: 797239 SUB: E87836

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Atrazine *	1912-24-9	U	0.100	0.018	ug/L	03/01/10 12:00	U	1
Benzo(a)pyrene	50-32-8	U	0.020	0.020	ug/L	03/01/10 12:00	U	1
bis(2-Ethylhexyl) Adipate	103-23-1	U	0.600	0.177	ug/L	03/01/10 12:00	U	1
bis(2-ethylhexyl) phthalate	117-81-7	0.517	0.600	0.271	ug/L	03/01/10 12:00	I	1
Alachlor *	15972-60-8	U	0.200	0.023	ug/L	03/01/10 12:00	U	1
Simazine *	122-34-9	U	0.070	0.034	ug/L	03/01/10 12:00	U	1
Endrin *	72-20-8	U	0.010	0.007	ug/L	03/01/10 12:00	U	1
Heptachlor *	76-44-8	U	0.040	0.009	ug/L	03/01/10 12:00	U	1
Heptachlor Epoxide (iso. b) *	1024-57-3	U	0.020	0.017	ug/L	03/01/10 12:00	U	1
Hexachlorobenzene *	118-74-1	U	0.100	0.013	ug/L	03/01/10 12:00	U	1
Hexachlorocyclopentadiene *	77-47-4	U	0.100	0.022	ug/L	03/01/10 12:00	U	1

Project: Florida Standard List of Methods

Version: 1.049

Miami Dade Water & Sewer, Miami, FL

ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: **SVOCs by EPA 625**

Prep Method: **E625P**

Analyst: **THB**
Seq Number: **796492**

Date Prep: **Feb-25-10 09:00**

Tech: **HEA**

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Acenaphthene	83-32-9	U	4.00	0.249	ug/L	02/28/10 13:48	U	1
Acenaphthylene	208-96-8	U	4.00	0.255	ug/L	02/28/10 13:48	U	1
Anthracene	120-12-7	U	4.00	0.249	ug/L	02/28/10 13:48	U	1
Benzidine	92-87-5	U	10.0	9.74	ug/L	02/28/10 13:48	U	1
Benzo(a)anthracene	56-55-3	U	4.00	0.274	ug/L	02/28/10 13:48	U	1
Benzo(a)pyrene	50-32-8	U	4.00	0.305	ug/L	02/28/10 13:48	U	1
Benzo(b)fluoranthene	205-99-2	U	4.00	0.247	ug/L	02/28/10 13:48	U	1
Benzo(k)fluoranthene	207-08-9	U	4.00	0.385	ug/L	02/28/10 13:48	U	1
Benzo(g,h,i)perylene	191-24-2	U	4.00	0.281	ug/L	02/28/10 13:48	U	1
Benzyl Alcohol	100-51-6	U	4.00	0.220	ug/L	02/28/10 13:48	U	1
Benzyl Butyl Phthalate	85-68-7	U	10.0	0.356	ug/L	02/28/10 13:48	U	1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	U	10.0	10.00	ug/L	02/28/10 13:48	U	1
bis(2-chloroethoxy) methane	111-91-1	U	4.00	0.316	ug/L	02/28/10 13:48	U	1
bis(2-chloroethyl) ether	111-44-4	U	4.00	0.461	ug/L	02/28/10 13:48	U	1
bis(2-chloroisopropyl) ether	108-60-1	U	4.00	0.341	ug/L	02/28/10 13:48	U	1
bis(2-ethylhexyl) phthalate	117-81-7	1.58	4.00	0.201	ug/L	02/28/10 13:48	IV	1
4-Bromophenyl-phenylether	101-55-3	U	4.00	0.271	ug/L	02/28/10 13:48	U	1
Carbazole	86-74-8	0.370	4.00	0.278	ug/L	02/28/10 13:48	I	1
4-chloro-3-methylphenol	59-50-7	U	4.00	0.221	ug/L	02/28/10 13:48	U	1
2-Chlorophenol	95-57-8	U	4.00	0.224	ug/L	02/28/10 13:48	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	4.00	0.446	ug/L	02/28/10 13:48	U	1
Chrysene	218-01-9	U	4.00	0.276	ug/L	02/28/10 13:48	U	1
n-Decane	124-18-5	U	4.00	0.001	ug/L	02/28/10 13:48	U	1
Dibenz(a,h)anthracene	53-70-3	U	4.00	0.550	ug/L	02/28/10 13:48	U	1
Dibenzofuran	132-64-9	U	10.0	0.085	ug/L	02/28/10 13:48	U	1
di-n-Butyl Phthalate	84-74-2	U	4.00	0.211	ug/L	02/28/10 13:48	U	1
1,2-Dichlorobenzene	95-50-1	U	4.00	0.342	ug/L	02/28/10 13:48	U	1
1,3-Dichlorobenzene	541-73-1	U	4.00	0.352	ug/L	02/28/10 13:48	U	1
1,4-Dichlorobenzene	106-46-7	U	4.00	0.278	ug/L	02/28/10 13:48	U	1
3,3-Dichlorobenzidine +	91-94-1	U	4.00	0.309	ug/L	02/28/10 13:48	U	1
2,4-Dichlorophenol	120-83-2	U	4.00	0.432	ug/L	02/28/10 13:48	U	1
Diethyl Phthalate	84-66-2	3.91	10.0	0.328	ug/L	02/28/10 13:48	I	1
Dimethyl Phthalate	131-11-3	U	1.00	0.308	ug/L	02/28/10 13:48	U	1
2,4-Dimethylphenol	105-67-9	U	4.00	0.396	ug/L	02/28/10 13:48	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	10.0	0.353	ug/L	02/28/10 13:48	U	1
2,4-Dinitrophenol	51-28-5	U	10.0	1.40	ug/L	02/28/10 13:48	U	1
2,4-Dinitrotoluene	121-14-2	U	4.00	0.312	ug/L	02/28/10 13:48	U	1
2,6-Dinitrotoluene	606-20-2	U	4.00	0.310	ug/L	02/28/10 13:48	U	1
di-n-Octyl Phthalate	117-84-0	U	1.00	0.278	ug/L	02/28/10 13:48	U	1



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Miami Dade Water & Sewer, Miami, FL

ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: SVOCs by EPA 625	Prep Method: E625P
Analyst: THB	Date Prep: Feb-25-10 09:00
Seq Number: 796492	Tech: HEA

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
1,2-Diphenylhydrazine	122-66-7	U	4.00	0.234	ug/L	02/28/10 13:48	U	1
Fluoranthene	206-44-0	U	4.00	0.201	ug/L	02/28/10 13:48	U	1
Fluorene	86-73-7	U	4.00	0.265	ug/L	02/28/10 13:48	U	1
Hexachlorobenzene	118-74-1	U	1.00	0.315	ug/L	02/28/10 13:48	U	1
Hexachlorobutadiene	87-68-3	U	4.00	0.448	ug/L	02/28/10 13:48	U	1
Hexachlorocyclopentadiene	77-47-4	U	4.00	0.741	ug/L	02/28/10 13:48	U	1
Hexachloroethane	67-72-1	U	2.00	0.362	ug/L	02/28/10 13:48	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	4.00	0.259	ug/L	02/28/10 13:48	U	1
Isophorone	78-59-1	U	4.00	0.337	ug/L	02/28/10 13:48	U	1
1-Methylnaphthalene	90-12-0	U	1.00	0.103	ug/L	02/28/10 13:48	U	1
2-Methylnaphthalene	91-57-6	U	1.00	0.113	ug/L	02/28/10 13:48	U	1
2-methylphenol	95-48-7	U	4.00	0.230	ug/L	02/28/10 13:48	U	1
3&4-Methylphenol	3/4-CRESOL	U	4.00	0.230	ug/L	02/28/10 13:48	U	1
Naphthalene	91-20-3	U	4.00	0.338	ug/L	02/28/10 13:48	U	1
2-Nitroaniline	88-74-4	U	50.0	0.060	ug/L	02/28/10 13:48	U	1
Nitrobenzene	98-95-3	U	4.00	0.306	ug/L	02/28/10 13:48	U	1
2-Nitrophenol	88-75-5	U	4.00	0.242	ug/L	02/28/10 13:48	U	1
4-Nitrophenol	100-02-7	U	10.0	0.786	ug/L	02/28/10 13:48	U	1
n-Octadecane	593-45-3	U	4.00	0.320	ug/L	02/28/10 13:48	U	1
Pentachlorophenol	87-86-5	U	10.0	0.672	ug/L	02/28/10 13:48	U	1
Phenanthrene	85-01-8	U	4.00	0.288	ug/L	02/28/10 13:48	U	1
Phenol	108-95-2	U	1.00	0.405	ug/L	02/28/10 13:48	U	1
Pyrene	129-00-0	U	4.00	0.468	ug/L	02/28/10 13:48	U	1
1,2,4-Trichlorobenzene	120-82-1	U	4.00	0.225	ug/L	02/28/10 13:48	U	1
2,4,5-Trichlorophenol	95-95-4	U	4.00	0.380	ug/L	02/28/10 13:48	U	1
2,4,6-Trichlorophenol	88-06-2	U	1.00	0.274	ug/L	02/28/10 13:48	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	4.000	0.100	ug/L	02/28/10 13:48	U	1

Analytical Method: Specific Conductance by EPA 120.1	Prep Method:
Analyst: YAD	Date Prep:
Seq Number: 795617	Tech: YAD

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Conductivity		578	50.0	10.0	uS/cm	02/26/10 09:30		1



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Miami Dade Water & Sewer, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: Synthetic Organics by 549.2	Prep Method: E549P
Analyst: SUB Seq Number: 797234	Date Prep: Mar-02-10 10:00 Tech: SUB SUB: E87836

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Diquat	85-00-7	U	0.400	0.274	ug/L	03/03/10 12:00	U	1

Analytical Method: TDS by SM2540C	Prep Method:
Analyst: RWA Seq Number: 796318	Date Prep: Tech: RWA

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Total dissolved solids	TDS	304	5.00	5.00	mg/L	02/26/10 16:30		1

Analytical Method: Total Cyanide by EPA 335.4	Prep Method:
Analyst: IDG Seq Number: 795683	Date Prep: Tech: IDG

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	0.005	0.010	0.004	mg/L	02/26/10 14:21	I	1

Project: Florida Standard List of Methods

Version: 1.049



Certificate of Analytical Results 363251

Miami Dade Water & Sewer, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT **Matrix: Water** **% Moisture:**
Lab Sample Id: 363251-001 **Date Collected: Feb-23-10 08:00**
Date Received: Feb-23-10 17:00

Analytical Method: Total Toxic Organics by EPA 624 **Prep Method: SW5030B**
Analyst: ROL **Date Prep: Mar-01-10 10:24** **Tech: ROL**
Seq Number: 796183

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.173	ug/L	03/02/10 15:02	U	1
Bromodichloromethane	75-27-4	U	2.00	0.191	ug/L	03/02/10 15:02	U	1
Bromoform	75-25-2	U	2.00	0.418	ug/L	03/02/10 15:02	U	1
Methyl bromide	74-83-9	U	2.00	0.610	ug/L	03/02/10 15:02	U	1
Carbon Tetrachloride	56-23-5	U	2.00	0.213	ug/L	03/02/10 15:02	U	1
Chlorobenzene	108-90-7	U	2.00	0.245	ug/L	03/02/10 15:02	U	1
Chloroethane	75-00-3	U	2.00	0.340	ug/L	03/02/10 15:02	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	10.0	0.612	ug/L	03/02/10 15:02	U	1
Chloroform	67-66-3	2.58	2.00	0.263	ug/L	03/02/10 15:02	U	1
Methyl Chloride	74-87-3	U	2.00	0.250	ug/L	03/02/10 15:02	U	1
Dibromochloromethane	124-48-1	U	2.00	0.256	ug/L	03/02/10 15:02	U	1
1,2-Dichlorobenzene	95-50-1	U	2.00	0.298	ug/L	03/02/10 15:02	U	1
1,4-Dichlorobenzene	106-46-7	1.71	2.00	0.193	ug/L	03/02/10 15:02	I	1
1,2-Dichloroethane	107-06-2	U	2.00	0.338	ug/L	03/02/10 15:02	U	1
1,1-Dichloroethane	75-34-3	U	2.00	0.255	ug/L	03/02/10 15:02	U	1
trans-1,2-dichloroethylene	156-60-5	U	2.00	0.399	ug/L	03/02/10 15:02	U	1
cis-1,2-Dichloroethylene	156-59-2	U	2.00	0.362	ug/L	03/02/10 15:02	U	1
1,1-Dichloroethene	75-35-4	U	2.00	0.269	ug/L	03/02/10 15:02	U	1
1,2-Dichloropropane	78-87-5	U	2.00	0.326	ug/L	03/02/10 15:02	U	1
trans-1,3-dichloropropene	10061-02-6	U	2.00	0.359	ug/L	03/02/10 15:02	U	1
cis-1,3-Dichloropropene	10061-01-5	U	2.00	0.249	ug/L	03/02/10 15:02	U	1
Ethylbenzene	100-41-4	U	2.00	0.196	ug/L	03/02/10 15:02	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	2.00	0.715	ug/L	03/02/10 15:02	U	1
Toluene	108-88-3	0.250	2.00	0.247	ug/L	03/02/10 15:02	I	1
1,1,2-Trichloroethane	79-00-5	U	2.00	0.288	ug/L	03/02/10 15:02	U	1
1,1,1-Trichloroethane	71-55-6	U	2.00	0.232	ug/L	03/02/10 15:02	U	1
Trichloroethylene	79-01-6	U	2.00	0.305	ug/L	03/02/10 15:02	U	1
o-Xylene	95-47-6	U	2.00	0.298	ug/L	03/02/10 15:02	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.398	ug/L	03/02/10 15:02	U	1
Methylene Chloride	75-09-2	U	5.00	1.00	ug/L	03/02/10 15:02	U	1
Acrolein	107-02-8	U	10.0	2.47	ug/L	03/02/10 15:02	U	1
Acrylonitrile	107-13-1	U	10.0	0.955	ug/L	03/02/10 15:02	U	1
Tetrachloroethylene	127-18-4	U	2.00	0.508	ug/L	03/02/10 15:02	U	1
Vinyl Chloride	75-01-4	U	1.00	0.414	ug/L	03/02/10 15:02	U	1
Total Xylenes	1330-20-7	U	2.00	0.298	ug/L	03/02/10 15:02	U	1



Certificate of Analytical Results 363251

Miami Dade Water & Sewer, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: Turbidity by EPA 180.1	Prep Method:
Analyst: MID Seq Number: 795391	Date Prep: Tech: MID

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Turbidity		7.00	1.00	0.100	NTU	02/24/10 16:50		1

Analytical Method: Volatile Organic Compounds by EPA 524.2	Prep Method: E524P
Analyst: ROL Seq Number: 795692	Date Prep: Feb-26-10 11:40 Tech: ROL

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Bromoform	75-25-2	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Total Trihalomethanes		2.96	0.500	0.200	ug/L	02/26/10 16:35	U	1
Carbon Tetrachloride	56-23-5	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Chlorobenzene	108-90-7	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Chloroform	67-66-3	2.96	0.500	0.200	ug/L	02/26/10 16:35		1
Dibromochloromethane	124-48-1	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
1,4-Dichlorobenzene	106-46-7	1.55	0.500	0.200	ug/L	02/26/10 16:35		1
1,1-Dichloroethane	75-34-3	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
cis-1,2-Dichloroethylene	156-59-2	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Ethylbenzene	100-41-4	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Methylene Chloride	75-09-2	U	0.500	0.400	ug/L	02/26/10 16:35	U	1
Styrene	100-42-5	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Tetrachloroethylene	127-18-4	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Toluene	108-88-3	0.271	0.500	0.200	ug/L	02/26/10 16:35	I	1
1,1,1-Trichloroethane	71-55-6	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Trichloroethylene	79-01-6	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
Vinyl Chloride	75-01-4	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
o-Xylene	95-47-6	U	0.500	0.200	ug/L	02/26/10 16:35	U	1
m,p-Xylenes	179601-23-1	U	0.500	0.400	ug/L	02/26/10 16:35	U	1



Certificate of Analytical Results 363251

Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-COMBINED EFFLUENT	Matrix: Water	% Moisture:
Lab Sample Id: 363251-001	Date Collected: Feb-23-10 08:00	
	Date Received: Feb-23-10 17:00	

Analytical Method: pH by SM4500-H	Prep Method:
Analyst: ZOE Seq Number: 795330	Date Prep: Tech: CCAB

Parameter	Cas Number	Result	CE	MDL	Units	Analysis Date	Flag	Dil
pH	PH	6.79		1.00	SU	02/24/10 13:30		1



Flagging Criteria

FLORIDA Flagging Criteria

- A** Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
- B** Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
- F** When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
- H** Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .
 - J1: No known quality control criteria exist for the component;
 - J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);
 - J3: The sample matrix interfered with the ability to make any accurate determination;
 - J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).
 - J5: The field calibration verification did not meet calibration acceptance criteria.
 - J6: QC protocol not followed.

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 2505 N. Falkenburg Rd., Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
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(972) 481-9999	(972) 481-9998
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555

Flagging Criteria

J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

- K** Off-scale low. Actual value is known to be less than the value given. This code shall be used if:
 1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
- L** Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- M** When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.
- N** Presumptive evidence of presence of material. This qualifier shall be used if:
 1. The component has been tentatively identified based on mass spectral library search; or
 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
- V** Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

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Flagging Criteria

- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z** Too many colonies were present (TNTC); the numeric value represents the filtration volume.
- ?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
- * Not reported due to interference.

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

- D** The sample result was reported from a dilution.
- E** Indicates that extra samples were taken at composite stations.
- R** Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
- !** Data deviate from historically established concentration ranges.
- +** Outside XENCO's scope of NELAC accreditation

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Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 363251,

Project ID: 80263

Lab Batch #: 797237

Sample: 363251-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 03/03/10 12:00

SURROGATE RECOVERY STUDY

Chlorinated Acids in Water by EPA 515.1	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	<0.000	2.00	0	50-150	**

Lab Batch #: 796033

Sample: 551672-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 03/01/10 21:43

SURROGATE RECOVERY STUDY

EDB, DBCP & 123TCP by EPA 504.1	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.56	4.00	89	70-130	

Lab Batch #: 796033

Sample: 551672-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 03/01/10 22:06

SURROGATE RECOVERY STUDY

EDB, DBCP & 123TCP by EPA 504.1	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.03	4.00	126	70-130	

Lab Batch #: 796033

Sample: 363244-002 D / MD

Batch: 1 Matrix: Waste Water

Units: ug/L

Date Analyzed: 03/01/10 23:38

SURROGATE RECOVERY STUDY

EDB, DBCP & 123TCP by EPA 504.1	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.79	4.00	120	70-130	

Lab Batch #: 796033

Sample: 551672-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 03/02/10 01:33

SURROGATE RECOVERY STUDY

EDB, DBCP & 123TCP by EPA 504.1	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.95	4.00	124	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 363251,

Project ID: 80263

Lab Batch #: 796033

Sample: 363251-001 / SMP

Batch: 1 **Matrix:** Water

	SURROGATE RECOVERY STUDY				
Units: ug/L	Date Analyzed: 03/02/10 02:19				
EDB, DBCP & 123TCP by EPA 504.1	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.12	4.00	128	70-130	

Lab Batch #: 796033

Sample: 363621-001 S / MS

Batch: 1 **Matrix:** Water

	SURROGATE RECOVERY STUDY				
Units: ug/L	Date Analyzed: 03/02/10 03:06				
EDB, DBCP & 123TCP by EPA 504.1	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.10	4.00	78	70-130	

Lab Batch #: 796553

Sample: 551304-1-BLK / BLK

Batch: 1 **Matrix:** Water

	SURROGATE RECOVERY STUDY				
Units: ug/L	Date Analyzed: 03/03/10 08:19				
Organochlorine Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.1482	0.1000	148	25-165	
Tetrachloro-m-xylene	0.1154	0.1000	115	32-137	

Lab Batch #: 796553

Sample: 551304-1-BKS / BKS

Batch: 1 **Matrix:** Water

	SURROGATE RECOVERY STUDY				
Units: ug/L	Date Analyzed: 03/03/10 08:46				
Organochlorine Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.1359	0.1000	136	25-165	
Tetrachloro-m-xylene	0.1015	0.1000	102	32-137	

Lab Batch #: 796553

Sample: 363251-001 / SMP

Batch: 1 **Matrix:** Water

	SURROGATE RECOVERY STUDY				
Units: ug/L	Date Analyzed: 03/03/10 09:41				
Organochlorine Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.1377	0.1000	138	25-165	
Tetrachloro-m-xylene	0.1268	0.1000	127	32-137	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 363251,

Project ID: 80263

Lab Batch #: 797238

Sample: 363251-001 / SMP

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 03/05/10 12:00

SURROGATE RECOVERY STUDY

Organohalide Pesticides and PCBs in Water by EPA 505 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Decachlorobiphenyl	<0.000	<0.000		50-150	
Tetrachloro-m-xylene	<0.000	<0.000		50-150	

Lab Batch #: 797239

Sample: 363251-001 / SMP

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 03/01/10 12:00

SURROGATE RECOVERY STUDY

SVOCs by EPA 525.2 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Chlordane	<0.0000	<0.0000		70-150	
2,4,6-Tribromophenol	<0.000	<0.000		10-123	
2-Fluorobiphenyl	<0.000	<0.000		43-116	
Molinate	<0.000	<0.000		75-125	
Terphenyl-D14	<0.000	<0.000		33-141	

Lab Batch #: 796492

Sample: 551301-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/28/10 11:53

SURROGATE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	38.4	50.0	77	40-112	
2-Fluorophenol	42.3	100	42	24-64	
Nitrobenzene-d5	38.9	50.0	78	39-117	
Terphenyl-D14	49.7	50.0	99	31-146	
2,4,6-Tribromophenol	88.1	100	88	52-121	
Phenol-d6	29.3	100	29	14-48	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 363251,

Project ID: 80263

Lab Batch #: 796492

Sample: 551301-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/28/10 12:12

SURROGATE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	37.6	50.0	75	40-112	
2-Fluorophenol	40.7	100	41	24-64	
Nitrobenzene-d5	38.7	50.0	77	39-117	
Terphenyl-D14	49.1	50.0	98	31-146	
2,4,6-Tribromophenol	88.1	100	88	52-121	
Phenol-d6	32.6	100	33	14-48	

Lab Batch #: 796492

Sample: 363396-006 S / MS

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/28/10 12:31

SURROGATE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	28.6	50.0	57	40-112	
2-Fluorophenol	33.1	100	33	24-64	
Nitrobenzene-d5	33.8	50.0	68	39-117	
Terphenyl-D14	45.5	50.0	91	31-146	
2,4,6-Tribromophenol	82.6	100	83	52-121	
Phenol-d6	25.7	100	26	14-48	

Lab Batch #: 796492

Sample: 363396-006 SD / MSD

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/28/10 12:50

SURROGATE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	33.6	50.0	67	40-112	
2-Fluorophenol	39.7	100	40	24-64	
Nitrobenzene-d5	37.9	50.0	76	39-117	
Terphenyl-D14	45.7	50.0	91	31-146	
2,4,6-Tribromophenol	88.2	100	88	52-121	
Phenol-d6	30.6	100	31	14-48	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 363251,

Project ID: 80263

Lab Batch #: 796492

Sample: 363251-001 / SMP

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/28/10 13:48

SURROGATE RECOVERY STUDY					
SVOCs by EPA 625 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	31.3	50.0	63	40-112	
2-Fluorophenol	32.4	100	32	24-64	
Nitrobenzene-d5	32.0	50.0	64	39-117	
Terphenyl-D14	43.2	50.0	86	31-146	
2,4,6-Tribromophenol	81.8	100	82	52-121	
Phenol-d6	24.6	100	25	14-48	

Lab Batch #: 796183

Sample: 551635-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 03/02/10 00:36

SURROGATE RECOVERY STUDY					
Total Toxic Organics by EPA 624 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	29.88	30.00	100	70-130	
Toluene-D8	29.76	30.00	99	70-130	
Dibromofluoromethane	29.20	30.00	97	70-130	

Lab Batch #: 796183

Sample: 551635-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 03/02/10 13:16

SURROGATE RECOVERY STUDY					
Total Toxic Organics by EPA 624 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	26.20	30.00	87	70-130	
Toluene-D8	29.47	30.00	98	70-130	
Dibromofluoromethane	31.01	30.00	103	70-130	

Lab Batch #: 796183

Sample: 363251-001 / SMP

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 03/02/10 15:02

SURROGATE RECOVERY STUDY					
Total Toxic Organics by EPA 624 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	28.45	30.00	95	70-130	
Toluene-D8	28.89	30.00	96	70-130	
Dibromofluoromethane	29.83	30.00	99	70-130	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 363251,

Project ID: 80263

Lab Batch #: 796183

Sample: 363401-003 S / MS

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 03/02/10 19:49

SURROGATE RECOVERY STUDY

Total Toxic Organics by EPA 624	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	27.06	30.00	90	70-130	
Toluene-D8	29.84	30.00	99	70-130	
Dibromofluoromethane	33.37	30.00	111	70-130	

Lab Batch #: 796183

Sample: 363401-003 SD / MSD

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 03/02/10 20:12

SURROGATE RECOVERY STUDY

Total Toxic Organics by EPA 624	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	29.74	30.00	99	70-130	
Toluene-D8	30.41	30.00	101	70-130	
Dibromofluoromethane	30.57	30.00	102	70-130	

Lab Batch #: 795692

Sample: 551530-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/26/10 11:29

SURROGATE RECOVERY STUDY

Volatile Organic Compounds by EPA 524.2	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	23.37	25.00	93	70-130	
1,2-Dichlorobenzene-D4	24	25	97	70-130	

Lab Batch #: 795692

Sample: 551530-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/26/10 12:48

SURROGATE RECOVERY STUDY

Volatile Organic Compounds by EPA 524.2	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	22.14	25.00	89	70-130	
1,2-Dichlorobenzene-D4	23	25	90	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 363251,

Project ID: 80263

Lab Batch #: 795692

Sample: 363251-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/26/10 16:35

SURROGATE RECOVERY STUDY

Volatile Organic Compounds by EPA 524.2	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	23.14	25.00	93	70-130	
1,2-Dichlorobenzene-D4	24	25	94	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551229-1-BLK	Matrix: WATER
Lab Sample Id: 551229-1-BLK	

Analytical Method: Pri/Sec Metals per ICP/MS by EPA 200.8	Prep Method: E200.8P
Date Analyzed: Feb-26-10 19:20	Analyst: DAF
Seq Number: 795978	Date Prep: Feb-24-10 10:17
	Tech: TIB

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Antimony	7440-36-0	U	5.00	1.07	ug/L	U	1
Arsenic	7440-38-2	U	5.00	0.800	ug/L	U	1
Barium	7440-39-3	U	5.00	2.20	ug/L	U	1
Beryllium	7440-41-7	U	4.00	0.600	ug/L	U	1
Cadmium	7440-43-9	U	5.00	0.600	ug/L	U	1
Chromium	7440-47-3	U	5.00	0.354	ug/L	U	1
Copper	7440-50-8	0.400	2.00	0.211	ug/L	I	1
Lead	7439-92-1	U	5.00	0.947	ug/L	U	1
Manganese	7439-96-5	U	5.00	1.50	ug/L	U	1
Mercury	7439-97-6	U	0.2000	0.0190	ug/L	U	1
Nickel	7440-02-0	U	5.00	0.293	ug/L	U	1
Selenium	7782-49-2	U	5.00	1.78	ug/L	U	1
Silver	7440-22-4	U	5.00	0.803	ug/L	U	1
Thallium	7440-28-0	U	2.00	0.269	ug/L	U	1
Zinc	7440-66-6	8.10	5.00	0.915	ug/L		1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551230-1-BLK	Matrix: WATER
Lab Sample Id: 551230-1-BLK	

Analytical Method: Pri / Sec ICP-AES Metals by EPA 200.7	Prep Method: E200.7P		
Date Analyzed: Mar-02-10 22:15	Analyst: IST	Date Prep: Feb-24-10 10:21	Tech: TIB
Seq Number: 796340			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Aluminum	7429-90-5	U	200	46.0	ug/L	U	1
Iron	7439-89-6	U	100	45.0	ug/L	U	1
Sodium	7440-23-5	93.8	250	74.0	ug/L	I	1
Zinc	7440-66-6	U	25.0	5.30	ug/L	U	1

Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551301-1-BLK	Matrix: WATER
Lab Sample Id: 551301-1-BLK	

Analytical Method: SVOCs by EPA 625	Prep Method: E625P
Date Analyzed: Feb-28-10 11:53 Analyst: THB	Date Prep: Feb-25-10 09:00 Tech: HEA
Seq Number: 796492	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Acenaphthene	83-32-9	U	4.00	0.249	ug/L	U	1
Acenaphthylene	208-96-8	U	4.00	0.255	ug/L	U	1
Anthracene	120-12-7	U	4.00	0.249	ug/L	U	1
Benzidine	92-87-5	U	10.0	9.74	ug/L	U	1
Benzo(a)anthracene	56-55-3	U	4.00	0.274	ug/L	U	1
Benzo(a)pyrene	50-32-8	U	4.00	0.305	ug/L	U	1
Benzo(b)fluoranthene	205-99-2	U	4.00	0.247	ug/L	U	1
Benzo(k)fluoranthene	207-08-9	U	4.00	0.385	ug/L	U	1
Benzo(g,h,i)perylene	191-24-2	U	4.00	0.281	ug/L	U	1
Benzyl Alcohol	100-51-6	U	4.00	0.220	ug/L	U	1
Benzyl Butyl Phthalate	85-68-7	U	10.0	0.356	ug/L	U	1
bis(2-chloroethoxy) methane	111-91-1	U	4.00	0.316	ug/L	U	1
bis(2-chloroethyl) ether	111-44-4	U	4.00	0.461	ug/L	U	1
bis(2-chloroisopropyl) ether	108-60-1	U	4.00	0.341	ug/L	U	1
bis(2-ethylhexyl) phthalate	117-81-7	0.390	4.00	0.201	ug/L	I	1
4-Bromophenyl-phenylether	101-55-3	U	4.00	0.271	ug/L	U	1
Carbazole	86-74-8	U	4.00	0.278	ug/L	U	1
4-chloro-3-methylphenol	59-50-7	U	4.00	0.221	ug/L	U	1
2-Chlorophenol	95-57-8	U	4.00	0.224	ug/L	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	4.00	0.446	ug/L	U	1
Chrysene	218-01-9	U	4.00	0.276	ug/L	U	1
n-Decane	124-18-5	U	4.00	0.001	ug/L	U	1
Dibenz(a,h)anthracene	53-70-3	U	4.00	0.550	ug/L	U	1
Dibenzofuran	132-64-9	U	10.0	0.085	ug/L	U	1
di-n-Butyl Phthalate	84-74-2	U	4.00	0.211	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	4.00	0.342	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	4.00	0.352	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	4.00	0.278	ug/L	U	1
3,3-Dichlorobenzidine +	91-94-1	U	4.00	0.309	ug/L	U	1
2,4-Dichlorophenol	120-83-2	U	4.00	0.432	ug/L	U	1
Diethyl Phthalate	84-66-2	11.7	10.0	0.328	ug/L		1
Dimethyl Phthalate	131-11-3	U	1.00	0.308	ug/L	U	1
2,4-Dimethylphenol	105-67-9	U	4.00	0.396	ug/L	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	10.0	0.353	ug/L	U	1
2,4-Dinitrophenol	51-28-5	U	10.0	1.40	ug/L	U	1
2,4-Dinitrotoluene	121-14-2	U	4.00	0.312	ug/L	U	1
2,6-Dinitrotoluene	606-20-2	U	4.00	0.310	ug/L	U	1
di-n-Octyl Phthalate	117-84-0	U	1.00	0.278	ug/L	U	1
1,2-Diphenylhydrazine	122-66-7	U	4.00	0.234	ug/L	U	1
Fluoranthene	206-44-0	U	4.00	0.201	ug/L	U	1
Fluorene	86-73-7	U	4.00	0.265	ug/L	U	1
Hexachlorobenzene	118-74-1	U	1.00	0.315	ug/L	U	1

Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551301-1-BLK	Matrix: WATER
Lab Sample Id: 551301-1-BLK	

Analytical Method: SVOCs by EPA 625	Prep Method: E625P
Date Analyzed: Feb-28-10 11:53 Analyst: THB	Date Prep: Feb-25-10 09:00 Tech: HEA
Seq Number: 796492	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Hexachlorobutadiene	87-68-3	U	4.00	0.448	ug/L	U	1
Hexachlorocyclopentadiene	77-47-4	U	4.00	0.741	ug/L	U	1
Hexachloroethane	67-72-1	U	2.00	0.362	ug/L	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	4.00	0.259	ug/L	U	1
Isophorone	78-59-1	U	4.00	0.337	ug/L	U	1
1-Methylnaphthalene	90-12-0	U	1.00	0.103	ug/L	U	1
2-Methylnaphthalene	91-57-6	U	1.00	0.113	ug/L	U	1
2-methylphenol	95-48-7	U	4.00	0.230	ug/L	U	1
3&4-Methylphenol	3/4-CRESOL	U	4.00	0.230	ug/L	U	1
Naphthalene	91-20-3	U	4.00	0.338	ug/L	U	1
2-Nitroaniline	88-74-4	U	50.0	0.060	ug/L	U	1
Nitrobenzene	98-95-3	U	4.00	0.306	ug/L	U	1
2-Nitrophenol	88-75-5	U	4.00	0.242	ug/L	U	1
4-Nitrophenol	100-02-7	U	10.0	0.786	ug/L	U	1
n-Octadecane	593-45-3	U	4.00	0.320	ug/L	U	1
Pentachlorophenol	87-86-5	U	10.0	0.672	ug/L	U	1
Phenanthrene	85-01-8	U	4.00	0.288	ug/L	U	1
Phenol	108-95-2	U	1.00	0.405	ug/L	U	1
Pyrene	129-00-0	U	4.00	0.468	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	4.00	0.225	ug/L	U	1
2,4,5-Trichlorophenol	95-95-4	U	4.00	0.380	ug/L	U	1
2,4,6-Trichlorophenol	88-06-2	U	1.00	0.274	ug/L	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	4.000	0.100	ug/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551304-1-BLK Matrix: WATER
Lab Sample Id: 551304-1-BLK

Analytical Method: Organochlorine Pesticides and PCBs by EPA 608 Prep Method: E608P
Date Analyzed: Mar-03-10 08:19 Analyst: SBR Date Prep: Feb-27-10 01:00 Tech: ROR
Seq Number: 796553

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
PCB 1016/1260		U	0.5000	0.1101	ug/L	U	1
4,4-DDD	72-54-8	U	0.1000	0.0010	ug/L	U	1
4,4-DDE	72-55-9	U	0.1000	0.0015	ug/L	U	1
4,4-DDT	50-29-3	U	0.1000	0.0012	ug/L	U	1
Aldrin	309-00-2	U	0.0500	0.0014	ug/L	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0009	ug/L	U	1
Beta-BHC	319-85-7	U	0.0200	0.0012	ug/L	U	1
Chlordane	57-74-9	U	1.000	0.0063	ug/L	U	1
Delta-BHC	319-86-8	U	0.0500	0.0009	ug/L	U	1
Dieldrin	60-57-1	U	0.0500	0.0011	ug/L	U	1
Endosulfan I	959-98-8	U	0.0500	0.0010	ug/L	U	1
Endosulfan II	33213-65-9	U	0.1000	0.0013	ug/L	U	1
Endosulfan Sulfate	1031-07-8	U	0.1000	0.0003	ug/L	U	1
Endrin	72-20-8	U	0.1000	0.0007	ug/L	U	1
Endrin Aldehyde	7421-93-4	U	0.1000	0.0007	ug/L	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.0006	ug/L	U	1
Heptachlor	76-44-8	U	0.0500	0.0015	ug/L	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.0012	ug/L	U	1
Methoxychlor	72-43-5	U	0.0500	0.0009	ug/L	U	1
Toxaphene	8001-35-2	U	3.000	0.0471	ug/L	U	1
PCB-1016	12674-11-2	U	0.5000	0.0124	ug/L	U	1
PCB-1221	11104-28-2	U	0.5000	0.0139	ug/L	U	1
PCB-1232	11141-16-5	U	0.5000	0.1900	ug/L	U	1
PCB-1242	53469-21-9	U	0.5000	0.0137	ug/L	U	1
PCB-1248	12672-29-6	U	0.5000	0.0085	ug/L	U	1
PCB-1254	11097-69-1	U	0.5000	0.0136	ug/L	U	1
PCB-1260	11096-82-5	U	0.5000	0.0151	ug/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551368-1-BLK	Matrix: WATER
Lab Sample Id: 551368-1-BLK	

Analytical Method: Inorganic Anions by EPA 300	Prep Method: E300P		
Date Analyzed: Feb-24-10 14:08	Analyst: ZOE	Date Prep: Feb-24-10 14:08	Tech: ZOE
Seq Number: 795371			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Fluoride	16984-48-8	U	0.200	0.030	mg/L	U	1
Chloride	16887-00-6	U	0.500	0.066	mg/L	U	1
Nitrite as N	7727-37-9	U	0.050	0.005	mg/L	U	1
Sulfate	14808-79-8	U	0.500	0.076	mg/L	U	1
Nitrate as N	7727-37-9	U	0.050	0.007	mg/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551530-1-BLK Matrix: WATER
Lab Sample Id: 551530-1-BLK

Analytical Method: Volatile Organic Compounds by EPA 524.2 Prep Method: E524P
Date Analyzed: Feb-26-10 12:48 Analyst: ROL Date Prep: Feb-26-10 11:40 Tech: ROL
Seq Number: 795692

Table with 8 columns: Parameter, Cas Number, Result, PQL, MDL, Units, Flag, Dil. Lists various chemical compounds and their detection results.



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551530-1-BLK	Matrix: WATER
Lab Sample Id: 551530-1-BLK	

Analytical Method: Volatile Organic Compounds by EPA 524.2	Prep Method: E524P		
Date Analyzed: Feb-26-10 12:48	Analyst: ROL	Date Prep: Feb-26-10 11:40	Tech: ROL
Seq Number: 795692			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.200	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.200	ug/L	U	1
1,2,3-Trichloropropane	96-18-4	U	0.500	0.200	ug/L	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.200	ug/L	U	1
Vinyl Chloride	75-01-4	U	0.500	0.200	ug/L	U	1
o-Xylene	95-47-6	U	0.500	0.200	ug/L	U	1
m,p-Xylenes	179601-23-1	U	0.500	0.400	ug/L	U	1

Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551635-1-BLK	Matrix: WATER
Lab Sample Id: 551635-1-BLK	

Analytical Method: Total Toxic Organics by EPA 624	Prep Method: SW5030B
Date Analyzed: Mar-02-10 13:16	Analyst: ROL
Seq Number: 796183	Date Prep: Mar-01-10 10:24
	Tech: ROL

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.173	ug/L	U	1
Bromodichloromethane	75-27-4	U	2.00	0.191	ug/L	U	1
Bromoform	75-25-2	U	2.00	0.418	ug/L	U	1
Methyl bromide	74-83-9	U	2.00	0.610	ug/L	U	1
Carbon Tetrachloride	56-23-5	U	2.00	0.213	ug/L	U	1
Chlorobenzene	108-90-7	U	2.00	0.245	ug/L	U	1
Chloroethane	75-00-3	U	2.00	0.340	ug/L	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	10.0	0.612	ug/L	U	1
Chloroform	67-66-3	U	2.00	0.263	ug/L	U	1
Methyl Chloride	74-87-3	U	2.00	0.250	ug/L	U	1
Dibromochloromethane	124-48-1	U	2.00	0.256	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	2.00	0.338	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	2.00	0.255	ug/L	U	1
trans-1,2-dichloroethylene	156-60-5	U	2.00	0.399	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	2.00	0.269	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	2.00	0.326	ug/L	U	1
trans-1,3-dichloropropene	10061-02-6	U	2.00	0.359	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	2.00	0.249	ug/L	U	1
Ethylbenzene	100-41-4	U	2.00	0.196	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	2.00	0.715	ug/L	U	1
Toluene	108-88-3	U	2.00	0.247	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	2.00	0.288	ug/L	U	1
1,1,1-Trichloroethane	71-55-6	U	2.00	0.232	ug/L	U	1
Trichloroethylene	79-01-6	U	2.00	0.305	ug/L	U	1
o-Xylene	95-47-6	U	2.00	0.298	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.398	ug/L	U	1
Methylene Chloride	75-09-2	U	5.00	1.00	ug/L	U	1
Acrolein	107-02-8	U	10.0	2.47	ug/L	U	1
Acrylonitrile	107-13-1	U	10.0	0.955	ug/L	U	1
Tetrachloroethylene	127-18-4	U	2.00	0.508	ug/L	U	1
Vinyl Chloride	75-01-4	U	1.00	0.414	ug/L	U	1
Total Xylenes	1330-20-7	U	2.00	0.298	ug/L		1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551672-1-BLK	Matrix: WATER
Lab Sample Id: 551672-1-BLK	

Analytical Method: EDB, DBCP & 123TCP by EPA 504.1	Prep Method: E504.1P		
Date Analyzed: Mar-01-10 21:43	Analyst: MIS	Date Prep: Mar-01-10 21:43	Tech: MIS
Seq Number: 796033			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.010	0.006	ug/L	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	0.020	0.003	ug/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 551697-1-BLK	Matrix: WATER
Lab Sample Id: 551697-1-BLK	

Analytical Method: BOD by SM5210B	Prep Method: SM5210P		
Date Analyzed: Mar-01-10 20:14	Analyst: RAF	Date Prep: Feb-24-10 23:44	Tech: RCA
Seq Number: 795974			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		U	2.00	1.50	mg/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 795130-1-BLK	Matrix: WATER
Lab Sample Id: 795130-1-BLK	

Analytical Method: Color by SM2120B	Prep Method:
Date Analyzed: Feb-23-10 18:20 Analyst: MID	Date Prep: Tech: MID
Seq Number: 795130	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Color	1605	U	1.0	0.50	CU	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 795132-1-BLK	Matrix: WATER
Lab Sample Id: 795132-1-BLK	

Analytical Method: ODOR by SM2150B	Prep Method:
Date Analyzed: Feb-23-10 18:15 Analyst: MID Date Prep:	Tech: MID
Seq Number: 795132	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Odor		U	1.0	1.0	T.O.N	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 795249-1-BLK	Matrix: WATER
Lab Sample Id: 795249-1-BLK	

Analytical Method: MBAS Surfactants by SM5540C	Prep Method:
Date Analyzed: Feb-24-10 10:00 Analyst: ARM Date Prep:	Tech: CCAB
Seq Number: 795249	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Surfactants		U	0.100	0.043	mg/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 795386-1-BLK	Matrix: WATER
Lab Sample Id: 795386-1-BLK	

Analytical Method: Ortho-Phosphorus by EPA 365.1	Prep Method:		
Date Analyzed: Feb-25-10 08:02	Analyst: IRU	Date Prep:	Tech: CCAB
	Seq Number: 795386		

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Ortho-Phosphate as P	7723-14-0	U	0.030	0.009	mg/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 795391-1-BLK	Matrix: WATER
Lab Sample Id: 795391-1-BLK	

Analytical Method: Turbidity by EPA 180.1	Prep Method:
Date Analyzed: Feb-24-10 16:50 Analyst: MID	Date Prep: Tech: MID
Seq Number: 795391	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Turbidity		U	1.00	0.100	NTU	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 795617-1-BLK	Matrix: WATER
Lab Sample Id: 795617-1-BLK	

Analytical Method: Specific Conductance by EPA 120.1	Prep Method:
Date Analyzed: Feb-26-10 09:30 Analyst: YAD Date Prep:	Tech: YAD
Seq Number: 795617	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Conductivity		U	50.0	10.0	uS/cm	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 795683-1-BLK	Matrix: WATER
Lab Sample Id: 795683-1-BLK	

Analytical Method: Total Cyanide by EPA 335.4	Prep Method:		
Date Analyzed: Feb-26-10 14:12	Analyst: IDG	Date Prep:	Tech: IDG
	Seq Number: 795683		

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Cyanide, Total	57-12-5	U	0.010	0.004	mg/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 795791-1-BLK	Matrix: WATER
Lab Sample Id: 795791-1-BLK	

Analytical Method: Oil and Grease by EPA 1664A	Prep Method:
Date Analyzed: Feb-26-10 19:00 Analyst: LWE	Date Prep:
Seq Number: 795791	Tech: JSL

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Oil & Grease, HEM		U	4.00	1.43	mg/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 795914-1-BLK	Matrix: WATER
Lab Sample Id: 795914-1-BLK	

Analytical Method: Nitrogen, Kjeldahl, Total by EPA 351.2	Prep Method:		
Date Analyzed: Mar-01-10 13:21	Analyst: IDG	Date Prep:	Tech: IDG
Seq Number: 795914			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Nitrogen, Total Kjeldahl	7727-37-9	U	0.300	0.074	mg/L	U	1
Total Organic Nitrogen (calculated)		U	0.300	0.001	mg/L	U	1
Total Nitrogen (calculated)		U	0.300	0.001	mg/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 796217-1-BLK	Matrix: WATER
Lab Sample Id: 796217-1-BLK	

Analytical Method: Nitrogen, Ammonia by EPA 350.1	Prep Method:
Date Analyzed: Mar-02-10 14:10 Analyst: IDG Date Prep:	Tech: IDG
Seq Number: 796217	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Nitrogen, Ammonia (as N)	7664-41-7	U	0.064	0.016	mg/L	U	1



Miami Dade Water & Sewer, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 796318-1-BLK	Matrix: WATER
Lab Sample Id: 796318-1-BLK	

Analytical Method: TDS by SM2540C	Prep Method:
Date Analyzed: Feb-26-10 16:30 Analyst: RWA Date Prep:	Tech: RWA
Seq Number: 796318	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Total dissolved solids	TDS	U	5.00	5.00	mg/L	U	1

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID:

80263

Lab Batch #: 795974

Sample: 551697-1-BKS

Matrix: Water

Date Analyzed: 03/01/2010

Date Prepared: 02/24/2010

Analyst: RAF

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BOD by SM5210B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Biochemical Oxygen Demand, 5 day	<1.50	198	199	101	85-115	

Lab Batch #: 795130

Sample: 795130-1-BKS

Matrix: Water

Date Analyzed: 02/23/2010

Date Prepared: 02/23/2010

Analyst: MID

Reporting Units: CU

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Color by SM2120B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Color	<0.50	500	500	100	80-120	

Lab Batch #: 796340

Sample: 551230-1-BKS

Matrix: Water

Date Analyzed: 03/02/2010

Date Prepared: 02/24/2010

Analyst: IST

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Pri / Sec ICP-AES Metals by EPA 200.7	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Aluminum	<46.0	5000	5370	107	70-130	
Iron	<45.0	5000	5200	104	70-130	
Sodium	93.8	25000	27000	108	70-130	
Zinc	<5.30	1000	1010	101	70-130	

Lab Batch #: 795371

Sample: 551368-1-BKS

Matrix: Water

Date Analyzed: 02/24/2010

Date Prepared: 02/24/2010

Analyst: ZOE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Fluoride	<0.030	5.00	5.09	102	90-110	
Chloride	<0.066	5.00	4.86	97	90-110	
Nitrite as N	<0.005	1.52	1.60	105	90-110	
Sulfate	<0.076	5.00	4.83	97	90-110	
Nitrate as N	<0.007	1.13	1.07	95	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID:

80263

Lab Batch #: 795978

Sample: 551229-1-BKS

Matrix: Water

Date Analyzed: 02/26/2010

Date Prepared: 02/24/2010

Analyst: DAF

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Pri/Sec Metals per ICP/MS by EPA 200.8 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Antimony	<1.07	200	240	120	70-130	
Arsenic	<0.800	200	199	100	70-130	
Barium	<2.20	200	200	100	70-130	
Beryllium	<0.600	200	200	100	70-130	
Cadmium	<0.600	200	196	98	70-130	
Chromium	<0.354	200	195	98	70-130	
Copper	0.400	200	192	96	70-130	
Lead	<0.947	200	197	99	70-130	
Manganese	<1.50	200	200	100	70-130	
Mercury	<0.0190	2.000	2.000	100	70-130	
Nickel	<0.293	200	192	96	70-130	
Selenium	<1.78	200	202	101	70-130	
Silver	<0.803	100	98.5	99	70-130	
Thallium	<0.269	200	193	97	70-130	
Zinc	8.10	200	195	98	70-130	

Lab Batch #: 796217

Sample: 796217-1-BKS

Matrix: Water

Date Analyzed: 03/02/2010

Date Prepared: 03/02/2010

Analyst: IDG

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Nitrogen, Ammonia by EPA 350.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Nitrogen, Ammonia (as N)	<0.016	2.50	2.56	102	90-110	

Lab Batch #: 795914

Sample: 795914-1-BKS

Matrix: Water

Date Analyzed: 03/01/2010

Date Prepared: 03/01/2010

Analyst: IDG

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Nitrogen, Kjeldahl, Total by EPA 351.2 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Nitrogen, Total Kjeldahl	<0.074	5.00	4.73	95	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID:

80263

Lab Batch #: 795791

Sample: 795791-1-BKS

Matrix: Water

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: LWE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Oil and Grease by EPA 1664A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Oil & Grease, HEM	<1.43	200	199	100	78-114	

Lab Batch #: 796553

Sample: 551304-1-BKS

Matrix: Water

Date Analyzed: 03/03/2010

Date Prepared: 02/27/2010

Analyst: SBR

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Organochlorine Pesticides and PCBs by EPA 60 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
4,4-DDD	<0.0010	0.1000	0.1079	108	28-209	
4,4-DDE	<0.0015	0.1000	0.1064	106	38-174	
4,4-DDT	<0.0012	0.1000	0.0908	91	14-228	
Aldrin	<0.0014	0.1000	0.1048	105	43-149	
Alpha-BHC	<0.0009	0.1000	0.0902	90	33-150	
Beta-BHC	<0.0012	0.1000	0.0987	99	37-162	
Delta-BHC	<0.0009	0.1000	0.0571	57	0-146	
Dieldrin	<0.0011	0.1000	0.1093	109	47-162	
Endosulfan I	<0.0010	0.1000	0.1066	107	42-148	
Endosulfan II	<0.0013	0.1000	0.1109	111	19-214	
Endosulfan Sulfate	<0.0003	0.1000	0.1018	102	8-218	
Endrin	<0.0007	0.1000	0.1076	108	41-189	
Endrin Aldehyde	<0.0007	0.1000	0.1113	111	12-217	
Gamma-BHC (Lindane)	<0.0006	0.1000	0.0951	95	33-155	
Heptachlor	<0.0015	0.1000	0.0880	88	47-148	
Heptachlor Epoxide	<0.0012	0.1000	0.1065	107	48-138	
Methoxychlor	<0.0009	0.1000	0.0876	88	0-317	

Lab Batch #: 795386

Sample: 795386-1-BKS

Matrix: Water

Date Analyzed: 02/25/2010

Date Prepared: 02/25/2010

Analyst: IRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Ortho-Phosphorus by EPA 365.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Ortho-Phosphate as P	<0.009	0.500	0.530	106	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID:

80263

Lab Batch #: 796492

Sample: 551301-1-BKS

Matrix: Water

Date Analyzed: 02/28/2010

Date Prepared: 02/25/2010

Analyst: THB

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acenaphthene	<0.249	50.0	38.8	78	47-145	
Acenaphthylene	<0.255	50.0	40.5	81	33-143	
Anthracene	<0.249	50.0	42.5	85	27-133	
Benzidine	<9.74	50.0	<10.0	0	10-104	J
Benzo(a)anthracene	<0.274	50.0	44.4	89	33-143	
Benzo(a)pyrene	<0.305	50.0	43.0	86	17-163	
Benzo(b)fluoranthene	<0.247	50.0	35.6	71	24-159	
Benzo(k)fluoranthene	<0.385	50.0	53.4	107	11-162	
Benzo(g,h,i)perylene	<0.281	50.0	42.7	85	10-219	
Benzyl Alcohol	<0.220	50.0	30.5	61	70-130	JL
Benzyl Butyl Phthalate	<0.356	50.0	45.9	92	10-152	
bis(2-chloroethoxy) methane	<0.316	50.0	38.6	77	33-184	
bis(2-chloroethyl) ether	<0.461	50.0	36.6	73	12-158	
bis(2-chloroisopropyl) ether	<0.341	50.0	37.4	75	36-166	
bis(2-ethylhexyl) phthalate	0.390	50.0	46.9	94	10-158	
4-Bromophenyl-phenylether	<0.271	50.0	38.0	76	53-127	
Carbazole	<0.278	50.0	41.6	83	73-131	
4-chloro-3-methylphenol	<0.221	50.0	40.1	80	22-147	
2-Chlorophenol	<0.224	50.0	34.7	69	23-134	
4-Chlorophenyl Phenyl Ether	<0.446	50.0	39.2	78	25-158	
Chrysene	<0.276	50.0	46.3	93	17-168	
n-Decane	<0.001	50.0	32.8	66	10-200	
Dibenz(a,h)anthracene	<0.550	50.0	43.9	88	10-227	
Dibenzofuran	<0.085	50.0	40.1	80	70-130	
di-n-Butyl Phthalate	<0.211	50.0	42.6	85	57-126	
1,2-Dichlorobenzene	<0.342	50.0	36.1	72	32-129	
1,3-Dichlorobenzene	<0.352	50.0	33.5	67	10-172	
1,4-Dichlorobenzene	<0.278	50.0	33.8	68	20-124	
3,3-Dichlorobenzidine	<0.309	50.0	38.1	76	10-262	
2,4-Dichlorophenol	<0.432	50.0	39.1	78	39-135	
Diethyl Phthalate	11.7	50.0	44.1	88	10-114	
Dimethyl Phthalate	<0.308	50.0	42.0	84	10-112	
2,4-Dimethylphenol	<0.396	50.0	38.3	77	32-119	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID:

80263

Lab Batch #: 796492

Sample: 551301-1-BKS

Matrix: Water

Date Analyzed: 02/28/2010

Date Prepared: 02/25/2010

Analyst: THB

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
4,6-dinitro-2-methyl phenol	<0.353	50.0	38.3	77	10-181	
2,4-Dinitrophenol	<1.40	50.0	38.9	78	10-191	
2,4-Dinitrotoluene	<0.312	50.0	42.5	85	39-139	
2,6-Dinitrotoluene	<0.310	50.0	41.7	83	50-158	
di-n-Octyl Phthalate	<0.278	50.0	45.2	90	10-146	
1,2-Diphenylhydrazine	<0.234	50.0	41.9	84	45-115	
Fluoranthene	<0.201	50.0	41.2	82	26-137	
Fluorene	<0.265	50.0	36.0	72	59-121	
Hexachlorobenzene	<0.315	50.0	43.5	87	10-152	
Hexachlorobutadiene	<0.448	50.0	39.2	78	24-116	
Hexachlorocyclopentadiene	<0.741	50.0	35.4	71	10-115	
Hexachloroethane	<0.362	50.0	34.8	70	40-113	
Indeno(1,2,3-c,d)Pyrene	<0.259	50.0	44.4	89	10-171	
Isophorone	<0.337	50.0	44.8	90	21-196	
1-Methylnaphthalene	<0.103	50.0	40.1	80	70-130	
2-Methylnaphthalene	<0.113	50.0	37.2	74	70-130	
2-methylphenol	<0.230	50.0	33.7	67	55-126	
3&4-Methylphenol	<0.230	50.0	33.2	66	76-107	JL
Naphthalene	<0.338	50.0	36.7	73	21-133	
2-Nitroaniline	<0.060	50.0	41.9	84	70-130	
Nitrobenzene	<0.306	50.0	40.0	80	35-180	
2-Nitrophenol	<0.242	50.0	37.1	74	29-182	
4-Nitrophenol	<0.786	50.0	18.7	37	10-132	
n-Octadecane	<0.320	50.0	49.6	99	65-123	
Pentachlorophenol	<0.672	50.0	39.0	78	14-176	
Phenanthrene	<0.288	50.0	41.4	83	54-120	
Phenol	<0.405	50.0	16.5	33	10-112	
Pyrene	<0.468	50.0	46.1	92	52-115	
1,2,4-Trichlorobenzene	<0.225	50.0	36.8	74	44-142	
2,4,5-Trichlorophenol	<0.380	50.0	46.0	92	70-130	
2,4,6-Trichlorophenol	<0.274	50.0	42.9	86	37-144	
N-Nitrosodi-n-Propylamine	<0.100	50.0	38.6	77	41-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID:

80263

Lab Batch #: 795617

Sample: 795617-1-BKS

Matrix: Water

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: YAD

Reporting Units: uS/cm

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Specific Conductance by EPA 120.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Conductivity	<10.0	1410	1220	87	80-120	

Lab Batch #: 796318

Sample: 796318-1-BKS

Matrix: Water

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: RWA

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Total dissolved solids	<5.00	1000	950	95	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID:

80263

Lab Batch #: 796183

Sample: 551635-1-BKS

Matrix: Water

Date Analyzed: 03/02/2010

Date Prepared: 03/01/2010

Analyst: ROL

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Total Toxic Organics by EPA 624 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	<0.173	20.0	19.2	96	70-130	
Bromodichloromethane	<0.191	20.0	19.9	100	70-130	
Bromoform	<0.418	20.0	17.5	88	70-130	
Methyl bromide	<0.610	20.0	23.0	115	70-130	
Carbon Tetrachloride	<0.213	20.0	19.1	96	70-130	
Chlorobenzene	<0.245	20.0	19.1	96	70-130	
Chloroethane	<0.340	20.0	19.7	99	70-130	
2-Chloroethyl Vinyl Ether	<0.612	20.0	16.0	80	70-130	
Chloroform	<0.263	20.0	19.4	97	70-130	
Methyl Chloride	<0.250	20.0	22.0	110	70-130	
Dibromochloromethane	<0.256	20.0	20.1	101	70-130	
1,2-Dichloroethane	<0.338	20.0	19.7	99	70-130	
1,1-Dichloroethane	<0.255	20.0	19.2	96	70-130	
trans-1,2-dichloroethylene	<0.399	20.0	19.0	95	70-130	
1,1-Dichloroethene	<0.269	20.0	18.7	94	70-130	
1,2-Dichloropropane	<0.326	20.0	19.8	99	70-130	
trans-1,3-dichloropropene	<0.359	20.0	19.0	95	70-130	
cis-1,3-Dichloropropene	<0.249	20.0	14.3	72	70-130	
Ethylbenzene	<0.196	20.0	19.5	98	70-130	
1,1,2,2-Tetrachloroethane	<0.715	20.0	20.0	100	70-130	
Toluene	<0.247	20.0	18.9	95	70-130	
1,1,2-Trichloroethane	<0.288	20.0	20.1	101	70-130	
1,1,1-Trichloroethane	<0.232	20.0	19.1	96	70-130	
Trichloroethylene	<0.305	20.0	20.0	100	70-130	
o-Xylene	<0.298	20.0	19.8	99	70-130	
m,p-Xylenes	<0.398	40.0	39.1	98	70-130	
Methylene Chloride	<1.00	20.0	19.6	98	70-130	
Acrolein	<2.47	50.0	52.0	104	70-130	
Acrylonitrile	<0.955	50.0	45.4	91	70-130	
Tetrachloroethylene	<0.508	20.0	19.5	98	70-130	
Vinyl Chloride	<0.414	20.0	18.3	92	70-130	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Blank Spike Recovery

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID: 80263

Lab Batch #: 795391

Sample: 795391-1-BKS

Matrix: Water

Date Analyzed: 02/24/2010

Date Prepared: 02/24/2010

Analyst: MID

Reporting Units: NTU

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Turbidity by EPA 180.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Turbidity	<0.100	14.4	14.3	99	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID:

80263

Lab Batch #: 795692

Sample: 551530-1-BKS

Matrix: Water

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: ROL

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Volatile Organic Compounds by EPA 524.2 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	<0.200	5.00	4.80	96	70-130	
Bromobenzene	<0.200	5.00	4.35	87	70-130	
Bromochloromethane	<0.200	5.00	5.18	104	70-130	
Bromodichloromethane	<0.200	5.00	4.84	97	70-130	
Bromoform	<0.200	5.00	4.65	93	70-130	
Methyl bromide	<0.200	5.00	3.69	74	70-130	
tert-Butylbenzene	<0.200	5.00	4.33	87	70-130	
Sec-Butylbenzene	<0.200	5.00	4.25	85	70-130	
n-Butylbenzene	<0.200	5.00	4.16	83	70-130	
Carbon Tetrachloride	<0.200	5.00	4.97	99	70-130	
Chlorobenzene	<0.200	5.00	4.49	90	70-130	
Chloroform	<0.200	5.00	4.90	98	70-130	
Methyl Chloride	<0.200	5.00	5.37	107	70-130	
2-Chlorotoluene	<0.200	5.00	4.22	84	70-130	
4-Chlorotoluene	<0.200	5.00	4.25	85	70-130	
1,2-Dibromo-3-Chloropropane	<0.200	5.00	4.61	92	70-130	
Dibromochloromethane	<0.200	5.00	4.43	89	70-130	
1,2-Dibromoethane	<0.200	5.00	5.13	103	70-130	
1,2-Dichlorobenzene	<0.200	5.00	4.55	91	70-130	
1,4-Dichlorobenzene	<0.200	5.00	4.24	85	70-130	
1,2-Dichloroethane	<0.200	5.00	5.27	105	70-130	
cis-1,2-Dichloroethylene	<0.200	5.00	4.79	96	70-130	
trans-1,2-dichloroethylene	<0.200	5.00	4.84	97	70-130	
1,1-Dichloroethene	<0.200	5.00	5.11	102	70-130	
1,2-Dichloropropane	<0.200	5.00	4.86	97	70-130	
1,3-Dichloropropane	<0.200	5.00	4.88	98	70-130	
2,2-Dichloropropane	<0.200	5.00	4.72	94	70-130	
1,1-Dichloropropene	<0.200	5.00	4.36	87	70-130	
cis-1,3-Dichloropropene	<0.200	5.00	4.36	87	70-130	
trans-1,3-dichloropropene	<0.200	5.00	3.85	77	70-130	
Isopropylbenzene	<0.200	5.00	4.45	89	70-130	
Methylene Chloride	<0.400	5.00	6.20	124	70-130	
MTBE	<0.200	5.00	4.68	94	70-130	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID:

80263

Lab Batch #: 795692

Sample: 551530-1-BKS

Matrix: Water

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: ROL

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Volatile Organic Compounds by EPA 524.2 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Naphthalene	<0.200	5.00	5.00	100	70-130	
n-Propylbenzene	<0.200	5.00	4.26	85	70-130	
Styrene	<0.200	5.00	4.11	82	70-130	
1,1,1,2-Tetrachloroethane	<0.200	5.00	4.29	86	70-130	
1,1,2,2-Tetrachloroethane	<0.200	5.00	4.73	95	70-130	
Tetrachloroethylene	<0.200	5.00	4.76	95	70-130	
Toluene	<0.200	5.00	4.52	90	70-130	
1,2,3-Trichlorobenzene	<0.200	5.00	5.02	100	70-130	
1,2,4-Trichlorobenzene	<0.200	5.00	4.73	95	70-130	
1,1,1-Trichloroethane	<0.200	5.00	5.06	101	70-130	
Trichlorofluoromethane	<0.200	5.00	5.42	108	70-130	
1,2,3-Trichloropropane	<0.200	5.00	4.83	97	70-130	
1,3,5-Trimethylbenzene	<0.200	5.00	4.45	89	70-130	
Vinyl Chloride	<0.200	5.00	5.15	103	70-130	
o-Xylene	<0.200	5.00	4.51	90	70-130	
m,p-Xylenes	<0.400	10.0	8.65	87	70-130	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Analyst: MIS

Lab Batch ID: 796033

Sample: 551672-1-BKS

Batch #: 1

Date Prepared: 03/01/2010

Project ID: 80263

Date Analyzed: 03/01/2010

Matrix: Water

Units: ug/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
EDB, DBCP & 123TCP by EPA 504.1	<0.006	0.250	0.367	147	0.25	0.369	148	1	70-130	20	JH
1,2-Dibromoethane	<0.003	0.250	0.396	158	0.25	0.394	158	1	70-130	20	JH
1,2-Dibromo-3-Chloropropane	<0.014	0.250	0.398	159	0.25	0.328	131	19	70-130	20	JH

Date Prepared: 02/24/2010

Date Analyzed: 02/24/2010

Analyst: ARM

Sample: 795249-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
MBAS Surfactants by SM5540C	<0.043	1.00	0.982	98	1	0.986	99	0	70-130	30	
Surfactants											

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Lab Batch #: 796033

Date Analyzed: 03/02/2010

QC- Sample ID: 363621-001 S

Reporting Units: ug/L

Date Prepared: 03/01/2010

Batch #: 1

Project ID: 80263

Analyst: MIS

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
EDB, DBCP & 123TCP by EPA 504.1	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
1,2-Dibromoethane	<0.010	0.250	0.240	96	70-130	
1,2-Dibromo-3-Chloropropane	<0.020	0.250	0.254	102	70-130	
1,2,3-Trichloropropane	<0.020	0.250	0.209	84	70-130	

Lab Batch #: 795978

Date Analyzed: 02/26/2010

QC- Sample ID: 363122-010 S

Reporting Units: ug/L

Date Prepared: 02/24/2010

Batch #: 1

Analyst: DAF

Matrix: Drinking Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Metals per ICP/MS by EPA 200.8	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Antimony	<5.00	200	250	125	70-130	
Arsenic	8.40	200	205	98	70-130	
Barium	3.00	200	213	105	70-130	
Beryllium	<4.00	200	201	101	70-130	
Cadmium	<5.00	200	193	97	70-130	
Chromium	0.700	200	198	99	70-130	
Copper	23.9	200	213	95	70-130	
Lead	<5.00	200	202	101	70-130	
Manganese	<5.00	200	200	100	70-130	
Mercury	<0.2000	2.000	2.100	105	70-130	
Nickel	0.700	200	191	95	70-130	
Selenium	14.1	200	211	98	70-130	
Silver	<5.00	100	96.9	97	70-130	
Thallium	1.00	200	200	100	70-130	
Zinc	14.3	200	207	96	70-130	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference [E] = 200*(C-A)/(C+B)
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Work Order #: 363251

Project ID: 80263

Lab Batch ID: 796340

Batch #: 1 Matrix: Water

Date Analyzed: 03/02/2010

QC-Sample ID: 363137-001 S

Date Prepared: 02/24/2010 Analyst: IST

Reporting Units: ug/L

Pri / Sec ICP-AES Metals by EPA 200.7

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Aluminum	<200	5000	5220	104	5000	5220	104	0	70-130	20	
Iron	2100	5000	7090	100	5000	7130	101	1	70-130	20	
Sodium	29000	25000	55000	104	25000	55200	105	0	70-130	20	
Zinc	7.30	1000	982	97	1000	966	96	2	70-130	20	

Lab Batch ID: 795371

QC-Sample ID: 363250-001 S Batch #: 1 Matrix: Ground Water

Date Analyzed: 02/24/2010

Date Prepared: 02/24/2010 Analyst: ZOE

Reporting Units: mg/L

Inorganic Anions by EPA 300

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Fluoride	0.436	5.00	5.32	98	5.00	5.30	97	0	90-110	20	
Chloride	289	5.00	267	0	5.00	266	0	0	90-110	20	J
Nitrite as N	<0.050	1.52	1.91	126	1.52	1.93	127	1	90-110	20	J
Sulfate	76.5	5.00	74.6	0	5.00	74.3	0	0	90-110	20	J
Nitrate as N	<0.050	1.13	1.09	96	1.13	1.10	97	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

Applicable N = See Narrative, EQ_L = Estimated Quantitation Limit

Work Order #: 363251

Lab Batch ID: 795249

Date Analyzed: 02/24/2010

Reporting Units: mg/L

Project ID: 80263

QC- Sample ID: 363251-001 S Batch #: 1 Matrix: Water

Date Prepared: 02/24/2010 Analyst: ARM

Form 3 - MS / MSD Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Surfactants	0.233	1.00	0.996	76	1.00	0.996	76	0	70-130	30	

QC- Sample ID: 363122-009 S Batch #: 1 Matrix: Drinking Water

Date Prepared: 02/24/2010 Analyst: DAF

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Pri/Sec Metals per ICP/MS by EPA 200.8											
Antimony	<5.00	200	259	130	200	247	124	5	70-130	20	
Arsenic	2.40	200	211	104	200	208	103	1	70-130	20	
Barium	2.50	200	218	108	200	207	102	5	70-130	20	
Beryllium	<4.00	200	207	104	200	198	99	4	70-130	20	
Cadmium	<5.00	200	199	100	200	191	96	4	70-130	20	
Chromium	0.700	200	203	101	200	195	97	4	70-130	20	
Copper	21.1	200	220	99	200	209	94	5	70-130	20	
Lead	2.30	200	211	104	200	201	99	5	70-130	20	
Manganese	<5.00	200	207	104	200	199	100	4	70-130	20	
Mercury	<0.2000	2,000	2,200	110	2,000	2,100	105	5	70-130	20	
Nickel	0.600	200	197	98	200	189	94	4	70-130	20	
Selenium	2.50	200	211	104	200	223	110	6	70-130	20	
Silver	<5.00	100	99.7	100	100	95.4	95	4	70-130	20	
Thallium	<2.00	200	206	103	200	197	99	4	70-130	20	
Zinc	27.1	200	225	99	200	213	93	5	70-130	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQ_L = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID: 80263

Lab Batch ID: 796217

Batch #: 1 Matrix: Water

Date Analyzed: 03/02/2010

QC-Sample ID: 363135-001 S

Reporting Units: mg/L

Date Prepared: 03/02/2010

Analyst: IDG

Nitrogen, Ammonia by EPA 350.1

Analytes

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Sample %R [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
5.63	2.50	8.10	99	2.50	8.11	99	0	90-110	20	

Lab Batch ID: 795914

Batch #: 1 Matrix: Water

Date Analyzed: 03/01/2010

QC-Sample ID: 363251-001 S

Reporting Units: mg/L

Date Prepared: 03/01/2010

Analyst: IDG

Nitrogen, Kjeldahl, Total by EPA 351.2

Analytes

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Sample %R [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
24.4	5.00	29.5	102	5.00	30.3	118	3	90-110	20	J

Lab Batch ID: 795791

Batch #: 1 Matrix: Water

Date Analyzed: 02/26/2010

QC-Sample ID: 362718-005 S

Reporting Units: mg/L

Date Prepared: 02/26/2010

Analyst: LWL

Oil and Grease by EPA 1664A

Analytes

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Sample %R [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<4.00	200	193	97	200	195	98	1	78-114	18	

Oil & Grease, HEM

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ = Estimated Quantitation Limit

Work Order #: 363251

Lab Batch ID: 795386

Date Analyzed: 02/25/2010

Reporting Units: mg/L

Project ID: 80263

QC- Sample ID: 363249-009 S Batch #: 1 Matrix: Water

Date Prepared: 02/25/2010 Analyst: IRU

Form 3 - MS / MSD Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Ortho-Phosphorus by EPA 365.1

Analytes

Ortho-Phosphate as P

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
0.069	0.500	0.578	102	0.500	0.577	102	0	90-110	30	

Matrix Spike Percent Recovery $[D] = 100*(C-A)/B$
Relative Percent Difference $RPD = 200*(C-F)/(C+F)$

Matrix Spike Duplicate Percent Recovery $[G] = 100*(F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQ_L = Estimated Quantitation Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID: 80263

Lab Batch ID: 796492

Batch #: 1 Matrix: Water

Date Analyzed: 02/28/2010

QC-Sample ID: 363396-006 S

Date Prepared: 02/25/2010

Analyst: THB

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
SVOcs by EPA 625	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Acenaphthene	<4.00	50.0	32.7	65	50.0	37.0	74	12	47-145	20	
Acenaphthylene	<4.00	50.0	34.6	69	50.0	38.2	76	10	33-143	20	
Anthracene	<4.00	50.0	39.9	80	50.0	41.4	83	4	27-133	20	
Benzidine	<10.0	50.0	21.3	43	50.0	17.3	35	21	10-104	20	F
Benzo(a)anthracene	<4.00	50.0	42.5	85	50.0	42.9	86	1	33-143	20	
Benzo(a)pyrene	<4.00	50.0	41.0	82	50.0	41.9	84	2	17-163	20	
Benzo(b)fluoranthene	<4.00	50.0	34.6	69	50.0	47.5	95	31	24-159	20	F
Benzo(k)fluoranthene	<4.00	50.0	51.1	102	50.0	34.6	69	39	11-162	20	F
Benzo(g,h,i)perylene	<4.00	50.0	41.4	83	50.0	42.2	84	2	10-219	20	
Benzyl Alcohol	<4.00	50.0	25.6	51	50.0	29.8	60	15	70-130	20	J
Benzyl Butyl Phthalate	<10.0	50.0	43.9	88	50.0	43.4	87	1	10-152	20	
bis(2-chloroethoxy) methane	<4.00	50.0	33.6	67	50.0	37.0	74	10	33-184	20	
bis(2-chloroethyl) ether	<4.00	50.0	31.6	63	50.0	35.3	71	11	12-158	20	
bis(2-chloroisopropyl) ether	<4.00	50.0	30.4	61	50.0	34.6	69	13	36-166	20	
bis(2-ethylhexyl) phthalate	0.360	50.0	44.8	89	50.0	43.9	87	2	10-158	20	
4-Bromophenyl-phenylether	<4.00	50.0	35.0	70	50.0	36.9	74	5	53-127	20	
Carbazole	<4.00	50.0	40.1	80	50.0	41.6	83	4	73-131	20	
4-chloro-3-methylphenol	<4.00	50.0	36.4	73	50.0	38.1	76	5	22-147	20	
2-Chlorophenol	<4.00	50.0	29.7	59	50.0	33.5	67	12	23-134	20	
4-Chlorophenyl Phenyl Ether	<4.00	50.0	35.5	71	50.0	37.5	75	5	25-158	20	
Chrysene	<4.00	50.0	44.7	89	50.0	45.4	91	2	17-168	20	
n-Decane	<4.00	50.0	18.5	37	50.0	15.9	32	15	10-200	20	
Dibenz(a,h)anthracene	<4.00	50.0	42.8	86	50.0	42.6	85	0	10-227	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQ_L = Estimated Quantitation Limit

Work Order #: 363251

Lab Batch ID: 796492

Date Analyzed: 02/28/2010

Reporting Units: ug/L

Project ID: 80263

QC-Sample ID: 363396-006 S

Batch #: 1

Matrix: Water

Analyst: THB

Project Name: ANNUAL PRIORITY POLLUTANTS

Form 3 - MS / MSD Recoveries

Analytes	SVOCs by EPA 625										Control Limits %RPD	Control Limits %R	RPD %	Spiked Dup. %R [G]	Duplicate Spiked Sample Result [F]	Spiked Sample %R [D]	Spike Added [E]	Spiked Sample Result [C]	Parent Sample Result [A]	Spike Added [B]			
	Spiked Sample %R [D]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag													
Dibenzofuran	71	35.7	50.0	50.0	38.7	77	8	70-130	20														
di-n-Butyl Phthalate	84	41.8	50.0	50.0	41.8	84	0	57-126	20														
1,2-Dichlorobenzene	44	22.1	50.0	50.0	23.0	46	4	32-129	20														
1,3-Dichlorobenzene	41	20.3	50.0	50.0	20.1	40	1	10-172	20														
1,4-Dichlorobenzene	41	20.6	50.0	50.0	21.3	43	3	20-124	20														
3,3-Dichlorobenzidine	76	38.0	50.0	50.0	39.3	79	3	10-262	20														
2,4-Dichlorophenol	69	34.6	50.0	50.0	37.5	75	8	39-135	20														
Diethyl Phthalate	79	44.0	50.0	50.0	42.8	77	3	10-114	20														
Dimethyl Phthalate	78	39.2	50.0	50.0	39.3	79	0	10-112	20														
2,4-Dimethylphenol	69	34.6	50.0	50.0	36.7	73	6	32-119	20														
4,6-dinitro-2-methyl phenol	75	37.3	50.0	50.0	37.8	76	1	10-181	20														
2,4-Dinitrophenol	80	39.8	50.0	50.0	40.5	81	2	10-191	20														
2,4-Dinitrotoluene	83	41.6	50.0	50.0	41.5	83	0	39-139	20														
2,6-Dinitrotoluene	79	39.6	50.0	50.0	41.6	83	5	50-158	20														
di-n-Octyl Phthalate	86	42.8	50.0	50.0	42.0	84	2	10-146	20														
1,2-Diphenylhydrazine	78	39.1	50.0	50.0	40.8	82	4	45-115	20														
Fluoranthene	83	41.4	50.0	50.0	42.0	84	1	26-137	20														
Fluorene	68	34.0	50.0	50.0	35.9	72	5	59-121	20														
Hexachlorobenzene	82	40.9	50.0	50.0	41.7	83	2	10-152	20														
Hexachlorobutadiene	43	21.7	50.0	50.0	22.9	46	5	24-116	20														
Hexachlorocyclopentadiene	40	20.0	50.0	50.0	26.2	52	27	10-115	20														F
Hexachloroethane	41	20.3	50.0	50.0	18.3	37	10	40-113	20														J
Indeno(1,2,3-c,d)Pyrene	84	42.1	50.0	50.0	43.0	86	2	10-171	20														

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQ_L = Estimated Quantitation Limit

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Project ID: 80263

Lab Batch ID: 796492

Batch #: 1 Matrix: Water

Date Analyzed: 02/28/2010

QC-Sample ID: 363396-006 S

Analyst: THB

Reporting Units: ug/L

Analytes	SVOCS by EPA 625	Parent Sample Result [A]	Spiked Sample Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
		<4.00	50.0	40.7	81	50.0	43.3	87	6	21-196	20	
Isophorone		<4.00	50.0	40.7	81	50.0	43.3	87	6	21-196	20	
1-Methylnaphthalene		<1.00	50.0	29.2	58	50.0	34.5	69	17	70-130	20	J
2-Methylnaphthalene		<1.00	50.0	26.7	53	50.0	31.2	62	16	70-130	20	J
2-methylphenol		<4.00	50.0	28.3	57	50.0	31.9	64	12	55-126	20	
3&4-Methylphenol		<4.00	50.0	27.6	55	50.0	30.9	62	11	76-107	20	J
Naphthalene		<4.00	50.0	25.1	50	50.0	29.0	58	14	21-133	20	
2-Nitroaniline		<50.0	50.0	38.8	78	50.0	41.1	82	6	70-130	20	
Nitrobenzene		<4.00	50.0	34.8	70	50.0	38.1	76	9	35-180	20	
2-Nitrophenol		<4.00	50.0	33.0	66	50.0	36.7	73	11	29-182	20	
4-Nitrophenol		<10.0	50.0	17.2	34	50.0	18.1	36	5	10-132	20	
n-Octadecane		<4.00	50.0	44.5	89	50.0	46.6	93	5	65-123	20	
Pentachlorophenol		<10.0	50.0	37.1	74	50.0	38.3	77	3	14-176	20	
Phenanthrene		<4.00	50.0	39.7	79	50.0	40.7	81	2	54-120	20	
Phenol		<1.00	50.0	13.5	27	50.0	15.6	31	14	10-112	20	
Pyrene		<4.00	50.0	42.6	85	50.0	43.0	86	1	52-115	20	
1,2,4-Trichlorobenzene		<4.00	50.0	22.5	45	50.0	25.3	51	12	44-142	20	
2,4,5-Trichlorophenol		<4.00	50.0	41.3	83	50.0	45.1	90	9	70-130	20	
2,4,6-Trichlorophenol		<1.00	50.0	38.2	76	50.0	41.2	82	8	37-144	20	
N-Nitrosodi-n-Propylamine		<4.000	50.000	33.900	68	50.000	36.700	73	8	41-120	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)
ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ_L = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Work Order #: 363251

Lab Batch ID: 795683

Date Analyzed: 02/26/2010

Reporting Units: mg/L

Project ID: 80263

QC-Sample ID: 363251-001 S Batch #: 1 Matrix: Water

Date Prepared: 02/26/2010 Analyst: IDG

Form 3 - MS / MSD Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Total Cyanide by EPA 335.4	0.005	0.200	0.200	98	0.200	0.199	97	1	90-110	20
Cyanide, Total											

Matrix Spike Percent Recovery $[D] = 100*(C-A)/B$
Relative Percent Difference $RPD = 200*(C-F)/(C+F)$

Matrix Spike Duplicate Percent Recovery $[G] = 100*(F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

Applicable N = See Narrative, EQL = Estimated Quantitation Limit

Work Order #: 363251

Lab Batch ID: 796183

Date Analyzed: 03/02/2010

Reporting Units: ug/L

QC-Sample ID: 363401-003 S

Date Prepared: 03/01/2010

Batch #: 1

Matrix: Water

Analyst: ROL

Project ID: 80263

Form 3 - MS / MSD Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Total Toxic Organics by EPA 624

Analytes

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											Flag
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD		
Benzene	<1.00	20.0	20.1	101	20.0	19.6	98	3	70-130	20		
Bromodichloromethane	<2.00	20.0	20.0	100	20.0	20.5	103	2	70-130	20		
Bromoform	<2.00	20.0	18.9	95	20.0	19.8	99	5	70-130	20		
Methyl bromide	<2.00	20.0	19.2	96	20.0	15.0	75	25	70-130	20	F	
Carbon Tetrachloride	<2.00	20.0	22.2	111	20.0	20.0	100	10	70-130	20		
Chlorobenzene	<2.00	20.0	18.2	91	20.0	18.8	94	3	70-130	20		
Chloroethane	<2.00	20.0	23.5	118	20.0	19.3	97	20	70-130	20		
2-Chloroethyl Vinyl Ether	<10.0	20.0	<10.0	0	20.0	<10.0	0	NC	70-130	20	J	
Chloroform	1.38	20.0	22.6	106	20.0	21.2	99	6	70-130	20		
Methyl Chloride	<2.00	20.0	20.4	102	20.0	18.1	91	12	70-130	20		
Dibromochloromethane	<2.00	20.0	19.6	98	20.0	20.6	103	5	70-130	20		
1,2-Dichloroethane	<2.00	20.0	20.0	100	20.0	19.8	99	1	70-130	20		
1,1-Dichloroethane	<2.00	20.0	21.0	105	20.0	19.9	100	5	70-130	20		
trans-1,2-dichloroethylene	<2.00	20.0	21.8	109	20.0	19.8	99	10	70-130	20		
1,1-Dichloroethene	<2.00	20.0	21.9	110	20.0	19.9	100	10	70-130	20		
1,2-Dichloropropane	<2.00	20.0	19.0	95	20.0	19.8	99	4	70-130	20		
trans-1,3-dichloropropene	<2.00	20.0	18.3	92	20.0	21.1	106	14	70-130	20		
cis-1,3-Dichloropropene	<2.00	20.0	12.6	63	20.0	14.5	73	14	70-130	20	J	
Ethylbenzene	0.220	20.0	18.8	93	20.0	19.3	95	3	70-130	20		
1,1,2,2-Tetrachloroethane	<2.00	20.0	18.7	94	20.0	20.1	101	7	70-130	20		
Toluene	1.77	20.0	19.9	91	20.0	21.1	97	6	70-130	20		
1,1,2-Trichloroethane	<2.00	20.0	18.7	94	20.0	20.2	101	8	70-130	20		
1,1,1-Trichloroethane	<2.00	20.0	22.5	113	20.0	20.0	100	12	70-130	20		

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQ_L = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Work Order #: 363251

Lab Batch ID: 796183

Date Analyzed: 03/02/2010

Reporting Units: ug/L

Project ID: 80263

QC- Sample ID: 363401-003 S Batch #: 1 Matrix: Water

Date Prepared: 03/01/2010 Analyst: ROL

Form 3 - MS / MSD Recoveries
Project Name: ANNUAL PRIORITY POLLUTANTS

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Trichloroethylene	<2.00	20.0	20.0	100	20.0	19.8	99	1	70-130	20	
o-Xylene	<2.00	20.0	19.9	100	20.0	19.6	98	2	70-130	20	
m,p-Xylenes	0.470	40.0	38.5	95	40.0	39.3	97	2	70-130	20	
Methylene Chloride	<5.00	20.0	20.5	103	20.0	18.8	94	9	70-130	20	
Acrolein	<10.0	50.0	<10.0	0	50.0	<10.0	0	NC	70-130	20	J
Acrylonitrile	<10.0	50.0	54.3	109	50.0	51.5	103	5	70-130	20	
Tetrachloroethylene	0.970	20.0	19.7	94	20.0	20.2	96	3	70-130	20	
Vinyl Chloride	<1.00	20.0	13.8	69	20.0	16.0	80	15	70-130	20	J

Matrix Spike Percent Recovery $[D] = 100 * (C-A) / B$
 Relative Percent Difference $RPD = 200 * (C-F) / (C+F)$
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 EQ = Estimated Quantitation Limit
 Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F-A) / E$

Sample Duplicate Recovery

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Lab Batch #: 795974

Project ID: 80263

Date Analyzed: 03/01/2010

Date Prepared: 02/24/2010

Analyst: RAF

QC- Sample ID: 363364-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
BOD by SM5210B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Biochemical Oxygen Demand, 5 day	<2.00	<2.00	NC	25	

Lab Batch #: 795974

Date Analyzed: 03/01/2010

Date Prepared: 02/24/2010

Analyst: RAF

QC- Sample ID: 363391-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
BOD by SM5210B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Biochemical Oxygen Demand, 5 day	2.59	2.87	10	25	

Lab Batch #: 795130

Date Analyzed: 02/23/2010

Date Prepared: 02/23/2010

Analyst: MID

QC- Sample ID: 363251-001 D

Batch #: 1

Matrix: Water

Reporting Units: CU

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Color by SM2120B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Color	40	40	0	20	

Lab Batch #: 796033

Date Analyzed: 03/01/2010

Date Prepared: 03/01/2010

Analyst: MIS

QC- Sample ID: 363244-002 D

Batch #: 1

Matrix: Waste Water

Reporting Units: ug/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
EDB, DBCP & 123TCP by EPA 504.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
1,2-Dibromoethane	<0.010	<0.010	NC	20	
1,2-Dibromo-3-Chloropropane	<0.020	<0.020	NC	20	
1,2,3-Trichloropropane	<0.020	<0.020	NC	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Sample Duplicate Recovery

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Lab Batch #: 795371

Project ID: 80263

Date Analyzed: 02/24/2010

Date Prepared: 02/24/2010

Analyst: ZOE

QC- Sample ID: 363171-001 D

Batch #: 1

Matrix: Ground Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Fluoride	0.100	0.138	32	20	F
Chloride	11.2	11.4	2	20	
Nitrite as N	<0.050	<0.050	NC	20	
Sulfate	12.2	7.84	44	20	F
Nitrate as N	20.6	21.1	2	20	

Lab Batch #: 795371

Date Analyzed: 02/24/2010

Date Prepared: 02/24/2010

Analyst: ZOE

QC- Sample ID: 363250-001 D

Batch #: 1

Matrix: Ground Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Fluoride	0.436	0.429	2	20	
Chloride	289	285	1	20	
Nitrite as N	<0.050	<0.050	NC	20	
Sulfate	76.5	75.6	1	20	
Nitrate as N	<0.050	0.076	NC	20	

Lab Batch #: 796217

Date Analyzed: 03/02/2010

Date Prepared: 03/02/2010

Analyst: IDG

QC- Sample ID: 363135-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Nitrogen, Ammonia by EPA 350.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Nitrogen, Ammonia (as N)	5.63	5.58	1	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Sample Duplicate Recovery

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Lab Batch #: 796217

Project ID: 80263

Date Analyzed: 03/02/2010

Date Prepared: 03/02/2010

Analyst: IDG

QC- Sample ID: 363235-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Nitrogen, Ammonia by EPA 350.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Nitrogen, Ammonia (as N)	0.694	0.723	4	20	

Lab Batch #: 795914

Date Analyzed: 03/01/2010

Date Prepared: 03/01/2010

Analyst: IDG

QC- Sample ID: 363003-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Nitrogen, Kjeldahl, Total by EPA 351.2	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Nitrogen, Total Kjeldahl	0.433	0.432	0	20	
Total Nitrogen (calculated)	0.433	0.432	0	20	
Total Organic Nitrogen (calculated)	<0.300	0.432	NC	20	

Lab Batch #: 795914

Date Analyzed: 03/01/2010

Date Prepared: 03/01/2010

Analyst: IDG

QC- Sample ID: 363251-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Nitrogen, Kjeldahl, Total by EPA 351.2	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Nitrogen, Total Kjeldahl	24.4	24.3	0	20	

Lab Batch #: 795132

Date Analyzed: 02/23/2010

Date Prepared: 02/23/2010

Analyst: MID

QC- Sample ID: 363251-001 D

Batch #: 1

Matrix: Water

Reporting Units: T.O.N

SAMPLE / SAMPLE DUPLICATE RECOVERY

ODOR by SM2150B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Odor	64	64	0	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Sample Duplicate Recovery

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Lab Batch #: 795386

Project ID: 80263

Date Analyzed: 02/25/2010

Date Prepared: 02/25/2010

Analyst: IRU

QC- Sample ID: 363249-002 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Ortho-Phosphorus by EPA 365.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Ortho-Phosphate as P	0.049	0.050	2	30	

Lab Batch #: 795386

Date Analyzed: 02/25/2010

Date Prepared: 02/25/2010

Analyst: IRU

QC- Sample ID: 363249-009 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Ortho-Phosphorus by EPA 365.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Ortho-Phosphate as P	0.069	0.061	12	30	

Lab Batch #: 795617

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: YAD

QC- Sample ID: 363371-002 D

Batch #: 1

Matrix: Water

Reporting Units: uS/cm

SAMPLE / SAMPLE DUPLICATE RECOVERY

Specific Conductance by EPA 120.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Conductivity	21600	21500	0	20	

Lab Batch #: 795617

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: YAD

QC- Sample ID: 363375-001 D

Batch #: 1

Matrix: Water

Reporting Units: uS/cm

SAMPLE / SAMPLE DUPLICATE RECOVERY

Specific Conductance by EPA 120.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Conductivity	1540	1540	0	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Sample Duplicate Recovery

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Lab Batch #: 796318

Project ID: 80263

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: RWA

QC- Sample ID: 363333-002 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	2030	2040	0	30	

Lab Batch #: 796318

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: RWA

QC- Sample ID: 363390-002 D

Batch #: 1

Matrix: Surface Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	110	106	4	30	

Lab Batch #: 795683

Date Analyzed: 02/26/2010

Date Prepared: 02/26/2010

Analyst: IDG

QC- Sample ID: 363251-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Total Cyanide by EPA 335.4	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Cyanide, Total	0.005	0.005	0	20	

Lab Batch #: 795391

Date Analyzed: 02/24/2010

Date Prepared: 02/24/2010

Analyst: MID

QC- Sample ID: 363251-001 D

Batch #: 1

Matrix: Water

Reporting Units: NTU

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Turbidity by EPA 180.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Turbidity	7.00	6.80	3	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Sample Duplicate Recovery

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Order #: 363251

Lab Batch #: 795330

Project ID: 80263

Date Analyzed: 02/24/2010

Date Prepared: 02/24/2010

Analyst: ZOE

QC- Sample ID: 363251-001 D

Batch #: 1

Matrix: Water

Reporting Units: SU

SAMPLE / SAMPLE DUPLICATE RECOVERY

pH by SM4500-H Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
pH	6.79	6.80	0	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



CHAIN OF CUSTODY RECORD

Atlanta: 6017 Financial Dr. Norcross, GA 30071 770-449-8800
 Boca Raton: 3231 NW 7th Ave, Boca Raton, FL 33431 561-447-7373
 Miami: 14100 Palmetto Frontage Rd. Miami Lakes, FL 33016 305-823-8500

Orlando: 5448 Hoffner Av. Ste 408 Orlando, FL 32812 408-429-8022
 Tampa: 2505 North Falkenburg Rd, Tampa, FL 33619 813-620-2000

Company: Miami Dade WASD
 Address: 8950 SW 232 St
 City: Miami State: FL Zip: 33190
 PO # 80263
 Quote #

Lab W/O 303251
 Field Billable Hrs:

* Container Type Codes
 VA Vial Amber ES Encore Sampler
 VC Vial Clear TS TerraCore Sampler
 VP Vial Pre-preserved AS Air Sampler
 GA Glass Amber TB Zip Lock Bag
 GC Glass Clear ZB Zip Lock Bag
 PA Plastic Amber PC Plastic Clear
 Other: _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
 40ml, 125ml, 250ml, 500ml, 1L, Other
 Example: 4ozGC = 4oz Glass Clear
 40mlVP = 40ml Vial Pre-preserved

** Preservative Type Codes
 A. None E. HCL I. Ice
 B. HNO₃ F. MeOH J. MCAA
 C. H₂SO₄ G. Na₂S₂O₃ K. ZnAc&NaOH
 D. NaOH H. NaHSO₄ L. Ascic Acid&NaOH
 O. _____

^ Matrix Type Codes
 GW Ground Water S. Soil/Sediment/Solid
 WW Waste Water W. Wipe
 DW Drinking Water A. Air
 SW Surface Water O. Oil
 OW Ocean/Sea Water T. Tissue
 PL Product-Liquid U. Urine
 PS Product-Solid B. Blood
 SL Sludge
 Other: _____

Project Name: Annual beauty bouquets Project ID: 80263
 Sampler Signature: _____
 Circle One Event: Daily Weekly Monthly
 Quarterly Semi-Annual Annual N/A
 Collect Date: 2/23/10 Collect Time: 8:00 Matrix Code: C
 Composite or Grab: Composite
 Field Filled: 27 Total # of containers: 27
 State: FL Zip: 33190
 Phone: 7862685631
 Fax: 3053596520
 email: cpowe@miamidade.gov
 PMI/Attn: Clive Power
 City: Miami State: FL Zip: 33190
 PO # 80263
 Quote #

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Composite or Grab	Field Filled	Total # of containers
1	1SD-Combined Effluent	2/23/10	8:00	C	Composite	27	27
2						16	16
3						12	12
4							
5							
6							
7							
8							
9							
0							

Sample #	Matrix Type	Container Type	Pres Type	Lab Only	# Cont	Lab Only
1	Ground Water	Amber	None		27	27
2	Ground Water	Clear	None		16	16
3	Ground Water	Clear	None		12	12
4	Ground Water	Clear	None			
5	Ground Water	Clear	None			
6	Ground Water	Clear	None			
7	Ground Water	Clear	None			
8	Ground Water	Clear	None			
9	Ground Water	Clear	None			
0	Ground Water	Clear	None			

Sample #	Matrix Type	Container Type	Pres Type	Lab Only	# Cont	Lab Only
1	Ground Water	Amber	None		27	27
2	Ground Water	Clear	None		16	16
3	Ground Water	Clear	None		12	12
4	Ground Water	Clear	None			
5	Ground Water	Clear	None			
6	Ground Water	Clear	None			
7	Ground Water	Clear	None			
8	Ground Water	Clear	None			
9	Ground Water	Clear	None			
0	Ground Water	Clear	None			

Sample #	Matrix Type	Container Type	Pres Type	Lab Only	# Cont	Lab Only
1	Ground Water	Amber	None		27	27
2	Ground Water	Clear	None		16	16
3	Ground Water	Clear	None		12	12
4	Ground Water	Clear	None			
5	Ground Water	Clear	None			
6	Ground Water	Clear	None			
7	Ground Water	Clear	None			
8	Ground Water	Clear	None			
9	Ground Water	Clear	None			
0	Ground Water	Clear	None			

Sample #	Matrix Type	Container Type	Pres Type	Lab Only	# Cont	Lab Only
1	Ground Water	Amber	None		27	27
2	Ground Water	Clear	None		16	16
3	Ground Water	Clear	None		12	12
4	Ground Water	Clear	None			
5	Ground Water	Clear	None			
6	Ground Water	Clear	None			
7	Ground Water	Clear	None			
8	Ground Water	Clear	None			
9	Ground Water	Clear	None			
0	Ground Water	Clear	None			

Sample #	Matrix Type	Container Type	Pres Type	Lab Only	# Cont	Lab Only
1	Ground Water	Amber	None		27	27
2	Ground Water	Clear	None		16	16
3	Ground Water	Clear	None		12	12
4	Ground Water	Clear	None			
5	Ground Water	Clear	None			
6	Ground Water	Clear	None			
7	Ground Water	Clear	None			
8	Ground Water	Clear	None			
9	Ground Water	Clear	None			
0	Ground Water	Clear	None			

Reg. Program / Clean-up Std STATE for Certs & Regs QA/QC Level & Certification
 CTLs TRRP DW NPDES LPST DryCln FL TX GA NC SC NJ PA 1 2 3 4 CLP AFCEE GAPP
 Other: OK LA AL IL Other: NELAC DoD-ELAP Other:
 Relinquished by: [Signature] Date: 2/23/10 Time: 1324
 Affiliation: MDWASD
 1 [Signature] Date: 2/23/10 Time: 13:24
 Affiliation: XENCO
 2 [Signature] Date: 2/23/10 Time: 14:15
 Affiliation: XENCO
 3 [Signature] Date: 2/23/10 Time: 16:05
 Affiliation: XENCO
 4 [Signature] Date: 2/23/10 Time: 17:00
 Affiliation: XENCO

FTS: Philadelphia 610-959-5649 South Carolina 803-543-8099 B&A Laboratories: Corpus/Christi 361-884-0371 Dallas 214-902-0300 Houston 281-240-4200 Odessa 432-563-1800 San Antonio 210-509-3334
 Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.
 Property of XENCO - Revision Date: Nov 12, 2009
 C.O.C. Serial # **259988**

XENCO LABORATORIES

Container Receipt Verification Form

Work Order Number: 363251 Chain of Custody Number(s): _____

Tests	Container Type/ Pres.	32oz N/M GA/MSO ₃ 549, 515, 505	32oz N/M GA/MSO ₃ 531	32oz N/M GA/MSO ₃ 505, 504	120mL P w. Pill/ VOA/ HCl 549, 624	4oz Plastic/ NaOH 4oz Plastic/ HNO ₃ Metals	250mL HDPE/ 250mL HDPE/	500mL HDPE/cool MBS, OP04, KORIGI, HSO ₄	500mL HDPE/ HSO ₄ TRU, TPICD, NH ₃	500mL HDPE/ IL HDPE/ COO 1 BOD	IL HDPE/ 90z GC/ 90z GC/ 90z GC/ 90z GC/ 40z GC/ 40z GC/ 40z GC/ 20z GC/ 20z GC/ Tedar Bag/ Ampules/ Other/	Comments
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												

Abbreviations:
 Gal GA = One gallon amber
 32oz N/M GA = 32 oz Amberglass
 VOA = 40mL vials
 32oz W/M GA = 32 oz Wide Mouth Amberglass
 IL HDPE = 1L (1000mL) Plastic Bottle
 500mL HDPE = 500mL Plastic Bottle
 250mL HPDE = 250mL Plastic Bottle
 8oz GC = 8oz Soil Jar
 4oz GC = 4oz Soil Jar
 2oz GC = 2oz soil jar
 120mL Plastic w. Pill = BacT
 Zip = Ziplock Bag
 4oz Plastic = 4oz Plastic Bottle

Chemicals:
 HCl = Hydrochloric Acid
 H₂SO₄ = Sulfuric Acid
 NaOH = Sodium Hydroxide
 MeOH = Methanol
 HNO₃ = Nitric Acid
 ZnAC = Zinc Acetate
 Na₂S₂O₃ = Sodium Thiosulfate

Other:
 NH₄Cl₂ = Ammonium Chloride
 DI H₂O = DI Water
 MCAA = Monochloroacetic Acid

Reviewed By: _____



Miami-Dade Water and Sewer Department

P.O. Box 330316 • 3071 SW 38th Avenue

Miami, Florida 33233-0316

T 305-665-7471

April 11, 2011

Certified Mail: 7010 0290 0000 0693 2678 miamidade.gov
Return Receipt Requested
CNN: 55334

Mr. Joseph R. May, P.G.
UIC Program Manager
Florida Department of Environmental Protection
400 North Congress Avenue, Suite 200
West Palm Beach, Florida 33401

Subject: Annual Wastewater Stream Analysis South District Wastewater Treatment Plant (SDWWTP), Permits 61787-022-UO and 61787-023-UC.

Dear Mr. May:

In accordance with FAC 528.450 and specific condition 3.i. of the referenced operation and construction permits, attached please find the 2011 sampling results for the annual wastewater stream analysis of primary, secondary drinking water standards, and minimum criteria.

Revision of the attached reports revealed that there are a few analytes missing. M-DWASD is in the process of obtaining the missing analytes from XENCO.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me at (786) 552-8116 or Richard M. O'Rourke at (786) 552-8123, if there are any questions regarding this submittal.

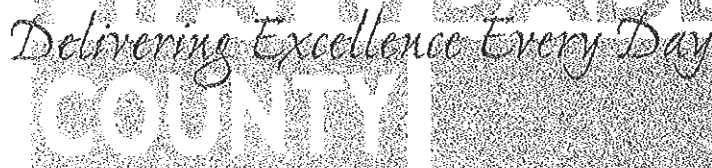
Sincerely,

Vicente E. Arrebola, P.E.
Assistant Director, Wastewater System Operations

VEA/RMO/pt

cc: M. Hambor, FDEP/SED

Attachment: South District WWTP – 2011 Annual Wastewater Stream Analysis Sampling Results



L11047FDEP-SD-AWA

Analytical Report 407305

for

Miami Dade Water & Sewer-South District

Project Manager: CLIVE POWELL

ANNUAL PRIORITY POLLUTANTS

31-MAR-11



Florida Testing Services, LLC



Genapure™
Analytical Services, Inc.



3231 NW 7th Avenue, Boca Raton, FL 33431

Ph:(561) 447-7373 Fax:(561) 447-6136

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (B87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



31-MAR-11

Project Manager: **CLIVE POWELL**
Miami Dade Water & Sewer-South District
8950 SW 232 Street
Miami, FL 33190

Reference: XENCO Report No: **407305**
ANNUAL PRIORITY POLLUTANTS
Project Address:

CLIVE POWELL:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 407305. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 407305 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mike Kimmel

Office Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America*



Sample Cross Reference 407305



**Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS**

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SD-Plant 2 Influent	W	Feb-18-11 00:00		407305-001
SD-Plant 2 Influent	W	Feb-18-11 08:25		407305-002



CASE NARRATIVE SUMMARY



Client Name: *Miami Dade Water & Sewer-South D*
Project Name: *ANNUAL PRIORITY POLLUTANTS*

Project ID:
Work Order Number: 407305

Report Date: 31-MAR-11
Date Received: 18-FEB-11

SD-Plant 2 Influent Dioxin Screen: by EPA 625 was negative for 2,3,7,8-TCDD.

Total Phenols will be recollected per client for Plant 2 Influent and re-submitted . EPA 420.1 was not analyzed on this work-order.

Batch 845273 608: % RPD between MS and MSD recoveries was outside method control limits for Aldrin and Heptachlor. Matrix Spike and Matrix Spike duplicate recoveries passed criteria.

Batch 845263 625: Spike recovery in the LCS and LCSD was outside method control criteria for Hexachlorocyclopentadiene, Hexachloroethane, 2-Nitroaniline. Target analytes were BDL. 3-4 Compounds are allowed to have spike recovery outside method control limits for full list 625 spike. Target analytes flagged with "J".

Mike Kimmel
Office Manager



Certificate of Analytical Results 407305



**Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS**

Sample Id: SD-Plant 2 Influent	Matrix: Water	Date Received: Feb-18-11 18:02
Lab Sample Id: 407305-001	Date Collected: Feb-18-11 00:00	

Analytical Method: ICP-AES Metals by EPA 200.7	Prep Method: E200.7P
Tech: TEM	% Moisture:
Analyst: IST	Date Prep: Feb-21-11 15:00
Seq Number: 845071	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	U	20.0	4.10	ug/L	02/23/11 01:19	U	1
Beryllium	7440-41-7	U	4.00	1.20	ug/L	02/23/11 01:19	U	1
Cadmium	7440-43-9	U	5.00	1.10	ug/L	02/23/11 01:19	U	1
Chromium	7440-47-3	3.33	10.0	2.60	ug/L	02/23/11 01:19	I	1
Copper	7440-50-8	34.1	20.0	3.40	ug/L	03/03/11 06:17		1
Molybdenum	7439-98-7	5.84	10.0	2.40	ug/L	02/23/11 01:19	I	1
Nickel	7440-02-0	4.41	10.0	1.90	ug/L	02/23/11 01:19	I	1
Selenium	7782-49-2	U	30.0	6.70	ug/L	02/23/11 01:19	U	1
Silver	7440-22-4	U	20.0	5.40	ug/L	02/23/11 01:19	U	1
Zinc	7440-66-6	145	30.0	6.70	ug/L	02/23/11 01:19		1

Analytical Method: Mercury by EPA 245.1	Prep Method: E245.1P
Tech: SOA	% Moisture:
Analyst: SOA	Date Prep: Feb-21-11 08:30
Seq Number: 844534	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.139	0.200	0.0593	ug/L	02/21/11 14:23	I	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Plant 2 Influent	Matrix: Water	Date Received: Feb-18-11 18:02
Lab Sample Id: 407305-001	Date Collected: Feb-18-11 00:00	

Analytical Method: Organochlorine Pesticides and PCBs by EPA 608	Prep Method: E608P
Tech: HEE	% Moisture:
Analyst: JGO	Date Prep: Feb-23-11 10:30
Seq Number: 845273	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00500	0.00150	ug/L	02/24/11 20:29	U	1
4,4-DDE	72-55-9	U	0.00500	0.000579	ug/L	02/24/11 20:29	U	1
4,4-DDT	50-29-3	U	0.00500	0.000824	ug/L	02/24/11 20:29	U	1
Aldrin	309-00-2	U	0.00500	0.00170	ug/L	02/24/11 20:29	UJ	1
Alpha-BHC	319-84-6	U	0.00500	0.000636	ug/L	02/24/11 20:29	U	1
Alpha-Chlordane	5103-71-9	U	0.00500	0.000528	ug/L	02/24/11 20:29	U	1
Beta-BHC	319-85-7	U	0.00500	0.00130	ug/L	02/24/11 20:29	U	1
Chlordane	57-74-9	U	0.20	0.029	ug/L	02/24/11 20:29	U	1
Delta-BHC	319-86-8	U	0.00500	0.000760	ug/L	02/24/11 20:29	U	1
Dieldrin	60-57-1	U	0.00500	0.000586	ug/L	02/24/11 20:29	U	1
Endosulfan I	959-98-8	U	0.00500	0.000523	ug/L	02/24/11 20:29	U	1
Endosulfan II	33213-65-9	U	0.00500	0.000660	ug/L	02/24/11 20:29	U	1
Endosulfan Sulfate	1031-07-8	U	0.00500	0.000650	ug/L	02/24/11 20:29	U	1
Endrin	72-20-8	U	0.00500	0.000718	ug/L	02/24/11 20:29	U	1
Endrin Aldehyde	7421-93-4	U	0.00500	0.00109	ug/L	02/24/11 20:29	U	1
Endrin Ketone	53494-70-5	U	0.00500	0.000666	ug/L	02/24/11 20:29	U	1
Gamma-BHC (Lindane)	8-89-9	U	0.00500	0.00167	ug/L	02/24/11 20:29	U	1
Gamma-Chlordane	5566-34-7	4.26	0.0500	0.00559	ug/L	02/25/11 10:37		10
Heptachlor	76-44-8	U	0.00500	0.000542	ug/L	02/24/11 20:29	U	1
Heptachlor Epoxide	1024-57-3	U	0.00500	0.000615	ug/L	02/24/11 20:29	U	1
Methoxychlor	72-43-5	U	0.00500	0.000869	ug/L	02/24/11 20:29	U	1
Toxaphene	8001-35-2	U	0.20	0.063	ug/L	02/24/11 20:29	U	1
PCB-1016	12674-11-2	U	0.500	0.110	ug/L	02/24/11 20:29	U	1
PCB-1221	11104-28-2	U	0.500	0.108	ug/L	02/24/11 20:29	U	1
PCB-1232	11141-16-5	U	0.500	0.107	ug/L	02/24/11 20:29	U	1
PCB-1242	53469-21-9	U	0.500	0.149	ug/L	02/24/11 20:29	U	1
PCB-1248	12672-29-6	U	0.500	0.101	ug/L	02/24/11 20:29	U	1
PCB-1254	11097-69-1	U	0.500	0.129	ug/L	02/24/11 20:29	U	1
PCB-1260	11096-82-5	U	0.500	0.120	ug/L	02/24/11 20:29	U	1
PCB, Total	1336-36-3	U			ug/L	02/24/11 20:29	U	1

Certificate of Analytical Results 407305



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Plant 2 Influent	Matrix: Water	Date Received: Feb-18-11 18:02
Lab Sample Id: 407305-001	Date Collected: Feb-18-11 00:00	

Analytical Method: SVOCs by EPA 625	Prep Method: E625P
Tech: HEA	% Moisture:
Analyst: BAT	Date Prep: Feb-23-11 12:30
Seq Number: 845263	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Acenaphthene	83-32-9	U	4.00	0.249	ug/L	02/25/11 02:02	U	1
Acenaphthylene	208-96-8	U	4.00	0.255	ug/L	02/25/11 02:02	U	1
Anthracene	120-12-7	U	4.00	0.249	ug/L	02/25/11 02:02	U	1
Benzidine	92-87-5	U	10.0	9.74	ug/L	02/25/11 02:02	U	1
Benzo(a)anthracene	56-55-3	U	4.00	0.274	ug/L	02/25/11 02:02	U	1
Benzo(a)pyrene	50-32-8	U	4.00	0.305	ug/L	02/25/11 02:02	U	1
Benzo(b)fluoranthene	205-99-2	U	4.00	0.247	ug/L	02/25/11 02:02	U	1
Benzo(k)fluoranthene	207-08-9	U	4.00	0.385	ug/L	02/25/11 02:02	U	1
Benzo(g,h,i)perylene	191-24-2	U	4.00	0.281	ug/L	02/25/11 02:02	U	1
Benzyl Alcohol	100-51-6	5.05	4.00	0.220	ug/L	02/25/11 02:02		1
Benzyl Butyl Phthalate	85-68-7	U	10.0	0.356	ug/L	02/25/11 02:02	U	1
bis(2-chloroethoxy) methane	111-91-1	U	4.00	0.316	ug/L	02/25/11 02:02	U	1
bis(2-chloroethyl) ether	111-44-4	U	4.00	0.461	ug/L	02/25/11 02:02	U	1
bis(2-chloroisopropyl) ether	108-60-1	U	4.00	0.341	ug/L	02/25/11 02:02	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	4.00	0.201	ug/L	02/25/11 02:02	U	1
4-Bromophenyl-phenylether	101-55-3	U	4.00	0.271	ug/L	02/25/11 02:02	U	1
4-chloro-3-methylphenol	59-50-7	U	4.00	0.221	ug/L	02/25/11 02:02	U	1
2-Chlorophenol	95-57-8	U	4.00	0.224	ug/L	02/25/11 02:02	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	4.00	0.446	ug/L	02/25/11 02:02	U	1
Chrysene	218-01-9	U	4.00	0.276	ug/L	02/25/11 02:02	U	1
Dibenz(a,h)Anthracene	53-70-3	U	4.00	0.550	ug/L	02/25/11 02:02	U	1
Dibenzofuran	132-64-9	U	10.0	0.0848	ug/L	02/25/11 02:02	U	1
di-n-Butyl Phthalate	84-74-2	U	4.00	0.211	ug/L	02/25/11 02:02	U	1
2,4-Dichlorophenol	120-83-2	U	4.00	0.432	ug/L	02/25/11 02:02	U	1
Diethyl Phthalate	84-66-2	5.17	10.0	0.328	ug/L	02/25/11 02:02	I	1
Dimethyl Phthalate	131-11-3	U	1.00	0.308	ug/L	02/25/11 02:02	U	1
2,4-Dimethylphenol	105-67-9	U	4.00	0.396	ug/L	02/25/11 02:02	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	10.0	0.353	ug/L	02/25/11 02:02	U	1
2,4-Dinitrophenol	51-28-5	U	10.0	1.40	ug/L	02/25/11 02:02	U	1
2,4-Dinitrotoluene	121-14-2	U	4.00	0.312	ug/L	02/25/11 02:02	U	1
2,6-Dinitrotoluene	606-20-2	U	4.00	0.310	ug/L	02/25/11 02:02	U	1
di-n-Octyl Phthalate	117-84-0	U	1.00	0.278	ug/L	02/25/11 02:02	U	1
1,2-Diphenylhydrazine	122-66-7	U	4.00	0.234	ug/L	02/25/11 02:02	U	1
Fluoranthene	206-44-0	U	4.00	0.201	ug/L	02/25/11 02:02	U	1
Fluorene	86-73-7	U	4.00	0.265	ug/L	02/25/11 02:02	U	1
Hexachlorobenzene	118-74-1	U	1.00	0.315	ug/L	02/25/11 02:02	U	1
Hexachlorobutadiene	87-68-3	U	4.00	0.448	ug/L	02/25/11 02:02	U	1
Hexachlorocyclopentadiene	77-47-4	U	4.00	0.741	ug/L	02/25/11 02:02	UJ	1
Hexachloroethane	67-72-1	U	2.00	0.362	ug/L	02/25/11 02:02	UJ	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	4.00	0.259	ug/L	02/25/11 02:02	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Plant 2 Influent	Matrix: Water	Date Received: Feb-18-11 18:02
Lab Sample Id: 407305-001	Date Collected: Feb-18-11 00:00	

Analytical Method: SVOCs by EPA 625	Prep Method: E625P
Tech: HEA	% Moisture:
Analyst: BAT	Date Prep: Feb-23-11 12:30
Seq Number: 845263	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Isophorone	78-59-1	U	4.00	0.337	ug/L	02/25/11 02:02	U	1
1-Methylnaphthalene	90-12-0	U	1.00	0.103	ug/L	02/25/11 02:02	U	1
2-Methylnaphthalene	91-57-6	U	1.00	0.113	ug/L	02/25/11 02:02	U	1
2-methylphenol	95-48-7	U	4.00	0.230	ug/L	02/25/11 02:02	U	1
3&4-Methylphenol		32.5	4.00	0.230	ug/L	02/25/11 02:02		1
Naphthalene	91-20-3	U	4.00	0.338	ug/L	02/25/11 02:02	U	1
2-Nitroaniline	88-74-4	U	50.0	0.0598	ug/L	02/25/11 02:02	UJ	1
Nitrobenzene	98-95-3	U	4.00	0.306	ug/L	02/25/11 02:02	U	1
2-Nitrophenol	88-75-5	U	4.00	0.242	ug/L	02/25/11 02:02	U	1
4-Nitrophenol	100-02-7	U	10.0	0.786	ug/L	02/25/11 02:02	U	1
Pentachlorophenol	87-86-5	U	10.0	0.672	ug/L	02/25/11 02:02	U	1
Phenanthrene	85-01-8	U	4.00	0.288	ug/L	02/25/11 02:02	U	1
Phenol	108-95-2	8.40	1.00	0.405	ug/L	02/25/11 02:02		1
Pyrene	129-00-0	U	4.00	0.468	ug/L	02/25/11 02:02	U	1
1,2,4-Trichlorobenzene	120-82-1	U	4.00	0.225	ug/L	02/25/11 02:02	U	1
2,4,5-Trichlorophenol	95-95-4	U	4.00	0.380	ug/L	02/25/11 02:02	U	1
2,4,6-Trichlorophenol	88-06-2	U	1.00	0.274	ug/L	02/25/11 02:02	U	1
N-Nitrosodimethylamine	62-75-9	U	4.00	0.310	ug/L	02/25/11 02:02	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	4.00	0.100	ug/L	02/25/11 02:02	U	1
N-Nitrosodiphenylamine	86-30-6	U	4.00	0.100	ug/L	02/25/11 02:02	U	1

Analytical Method: Metals per ICP/MS by BPA 200.8	Prep Method: E200.8P
Tech: TEM	% Moisture:
Analyst: DAF	Date Prep: Feb-21-11 16:00
Seq Number: 844789	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	1.43	4.00	0.900	ug/L	02/22/11 18:05	I	1
Lead	7439-92-1	2.31	4.00	1.13	ug/L	02/22/11 18:05	I	1
Thallium	7440-28-0	0.290	2.00	0.131	ug/L	02/22/11 18:05	VI	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Plant 2 Influent	Matrix: Water	Date Received: Feb-18-11 18:02
Lab Sample Id: 407305-002	Date Collected: Feb-18-11 08:25	

Analytical Method: E624 Volatile	Prep Method: SW5030B
Tech: ROL	% Moisture:
Analyst: ROL	Date Prep: Feb-24-11 20:35
Seq Number: 845297	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.113	ug/L	02/25/11 15:29	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.0509	ug/L	02/25/11 15:29	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.109	ug/L	02/25/11 15:29	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.711	ug/L	02/25/11 15:29	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.139	ug/L	02/25/11 15:29	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.150	ug/L	02/25/11 15:29	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.121	ug/L	02/25/11 15:29	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.108	ug/L	02/25/11 15:29	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.215	ug/L	02/25/11 15:29	U	1
1,4-Dichlorobenzene	106-46-7	3.01	1.00	0.104	ug/L	02/25/11 15:29		1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.0613	ug/L	02/25/11 15:29	U	1
Acrolein	107-02-8	U	10.0	2.37	ug/L	02/25/11 15:29	U	1
Acrylonitrile	107-13-1	U	2.00	0.408	ug/L	02/25/11 15:29	U	1
Benzene	71-43-2	U	1.00	0.249	ug/L	02/25/11 15:29	U	1
Bromodichloromethane	75-27-4	U	1.00	0.0764	ug/L	02/25/11 15:29	U	1
Bromoform	75-25-2	U	1.00	0.146	ug/L	02/25/11 15:29	U	1
Methyl bromide	74-83-9	U	1.00	0.183	ug/L	02/25/11 15:29	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.228	ug/L	02/25/11 15:29	U	1
Chlorobenzene	108-90-7	U	1.00	0.176	ug/L	02/25/11 15:29	U	1
Chloroethane	75-00-3	U	1.00	0.217	ug/L	02/25/11 15:29	U	1
Chloroform	67-66-3	0.484	1.00	0.122	ug/L	02/25/11 15:29	I	1
Methyl Chloride	74-87-3	U	1.00	0.352	ug/L	02/25/11 15:29	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.152	ug/L	02/25/11 15:29	U	1
Dibromochloromethane	124-48-1	U	1.00	0.0586	ug/L	02/25/11 15:29	U	1
Ethylbenzene	100-41-4	0.574	1.00	0.210	ug/L	02/25/11 15:29	I	1
Methylene Chloride	75-09-2	U	5.00	1.27	ug/L	02/25/11 15:29	U	1
Tetrachloroethylene	127-18-4	0.791	1.00	0.0977	ug/L	02/25/11 15:29	I	1
Toluene	108-88-3	6.41	1.00	0.201	ug/L	02/25/11 15:29		1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.128	ug/L	02/25/11 15:29	U	1
trans-1,3-dichloropropene	10061-02-6	U	1.00	0.0536	ug/L	02/25/11 15:29	U	1
Trichloroethylene	79-01-6	U	1.00	0.357	ug/L	02/25/11 15:29	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.120	ug/L	02/25/11 15:29	U	1
Vinyl Chloride	75-01-4	U	1.00	0.192	ug/L	02/25/11 15:29	U	1



Certificate of Analytical Results 407305



**Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS**

Sample Id: SD-Plant 2 Influent	Matrix: Water	Date Received: Feb-18-11 18:02
Lab Sample Id: 407305-002	Date Collected: Feb-18-11 08:25	

Analytical Method: Oil and Grease by EPA 1664A	Prep Method: E1664A_PREP
Tech: LER	% Moisture:
Analyst: TJH	Date Prep: Feb-22-11 13:58
Seq Number: 844928	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Oil & Grease, HEM		16.8	4.00	1.43	mg/L	02/23/11 16:00		1

FLORIDA Flagging Criteria

- A** Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
- B** Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
- F** When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
- H** Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .
- J1: No known quality control criteria exist for the component;
 - J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);
 - J3: The sample matrix interfered with the ability to make any accurate determination;
 - J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).
 - J5: The field calibration verification did not meet calibration acceptance criteria.
 - J6: QC protocol not followed.

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2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

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(972) 481-9999	(972) 481-9998
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555

J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

- K** Off-scale low. Actual value is known to be less than the value given. This code shall be used if:
1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
- L** Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- M** When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.
- N** Presumptive evidence of presence of material. This qualifier shall be used if:
1. The component has been tentatively identified based on mass spectral library search; or
 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
- V** Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

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Flagging Criteria

- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z** Too many colonies were present for accurate counting. Historically, this condition has been reported as "too numerous to count" (TNTC). The "Z" qualifier code shall be reported when the total number of colonies of all types is more than 200 in all dilutions of the sample. When applicable to the observed test results, a numeric value for the colony count for the microorganism tested shall be estimated from the highest dilution factor (smallest sample volume) used for the test and reported with the qualifier code.
- ?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
- * Not reported due to interference.

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

- D** The sample result was reported from a dilution.
- E** Indicates that extra samples were taken at composite stations.
- R** Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
- !** Data deviate from historically established concentration ranges.
- +** Outside XENCO's scope of NELAC accreditation

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407305,

Project ID:

Lab Batch #: 845273

Sample: 596100-1-BLK / BLK

Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY						
Units: ug/L	Date Analyzed: 02/24/11 01:43	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides and PCBs by EPA 608						
Analytes						
Decachlorobiphenyl		0.0710	0.100	71	25-165	
Tetrachloro-m-xylene		0.0590	0.100	59	32-137	

Lab Batch #: 845273

Sample: 596100-1-BKS / BKS

Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY						
Units: ug/L	Date Analyzed: 02/24/11 02:22	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides and PCBs by EPA 608						
Analytes						
Decachlorobiphenyl		0.070	0.100	70	25-165	
Tetrachloro-m-xylene		0.059	0.100	59	32-137	

Lab Batch #: 845273

Sample: 596100-1-BSD / BSD

Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY						
Units: ug/L	Date Analyzed: 02/24/11 02:42	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides and PCBs by EPA 608						
Analytes						
Decachlorobiphenyl		0.066	0.100	66	25-165	
Tetrachloro-m-xylene		0.053	0.100	53	32-137	

Lab Batch #: 845273

Sample: 407305-001 / SMP

Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY						
Units: ug/L	Date Analyzed: 02/24/11 20:29	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides and PCBs by EPA 608						
Analytes						
Decachlorobiphenyl		0.0626	0.100	63	25-165	
Tetrachloro-m-xylene		0.114	0.100	114	32-137	

Lab Batch #: 845273

Sample: 407305-001 / DL

Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY						
Units: ug/L	Date Analyzed: 02/25/11 10:37	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides and PCBs by EPA 608						
Analytes						
Decachlorobiphenyl		0.0555	0.100	56	25-165	
Tetrachloro-m-xylene		0.142	0.100	142	32-137	J

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407305,

Project ID:

Lab Batch #: 845263

Sample: 596099-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 00:35

SURROGATE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	33.2	50.0	66	40-112	
2-Fluorophenol	40.6	100	41	24-64	
Nitrobenzene-d5	36.5	50.0	73	39-117	
Terphenyl-D14	38.6	50.0	77	31-146	
2,4,6-Tribromophenol	79.4	100	79	52-121	
Phenol-d6	26.8	100	27	14-48	

Lab Batch #: 845263

Sample: 596099-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 00:53

SURROGATE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	33.9	50.0	68	40-112	
2-Fluorophenol	43.4	100	43	24-64	
Nitrobenzene-d5	40.2	50.0	80	39-117	
Terphenyl-D14	39.5	50.0	79	31-146	
2,4,6-Tribromophenol	87.7	100	88	52-121	
Phenol-d6	30.8	100	31	14-48	

Lab Batch #: 845263

Sample: 596099-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 01:10

SURROGATE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	32.3	50.0	65	40-112	
2-Fluorophenol	40.6	100	41	24-64	
Nitrobenzene-d5	39.0	50.0	78	39-117	
Terphenyl-D14	40.5	50.0	81	31-146	
2,4,6-Tribromophenol	90.2	100	90	52-121	
Phenol-d6	28.6	100	29	14-48	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407305,

Project ID:

Lab Batch #: 845263

Sample: 407305-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/25/11 02:02

SURROGATE RECOVERY STUDY

SVOCs by EPA 625	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	31.7	50.0	63	40-112	
2-Fluorophenol	30.6	100	31	24-64	
Nitrobenzene-d5	31.3	50.0	63	39-117	
Terphenyl-D14	36.7	50.0	73	31-146	
2,4,6-Tribromophenol	77.8	100	78	52-121	
Phenol-d6	22.6	100	23	14-48	

Lab Batch #: 845297

Sample: 596550-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/25/11 01:47

SURROGATE RECOVERY STUDY

E624 Volatile	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	30	30	99	80-121	
Dibromofluoromethane	30	30	100	87-118	
Toluene-D8	26	30	87	87-111	

Lab Batch #: 845297

Sample: 596550-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/25/11 03:48

SURROGATE RECOVERY STUDY

E624 Volatile	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	30	30	99	80-121	
Dibromofluoromethane	30	30	100	87-118	
Toluene-D8	29	30	96	87-111	

Lab Batch #: 845297

Sample: 407305-002 / SMP

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/25/11 15:29

SURROGATE RECOVERY STUDY

E624 Volatile	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	25	30	83	80-121	
Dibromofluoromethane	27	30	90	87-118	
Toluene-D8	30	30	100	87-111	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407305,

Project ID:

Lab Batch #: 845297

Sample: 407563-001 S / MS

Batch: 1 Matrix: Ground Water

Units: ug/L

Date Analyzed: 02/25/11 16:17

SURROGATE RECOVERY STUDY

E624 Volatile	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	28	30	94	80-121	
Dibromofluoromethane	30	30	99	87-118	
Toluene-D8	30	30	99	87-111	

Lab Batch #: 845297

Sample: 407563-001 SD / MSD

Batch: 1 Matrix: Ground Water

Units: ug/L

Date Analyzed: 02/25/11 16:41

SURROGATE RECOVERY STUDY

E624 Volatile	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	28	30	92	80-121	
Dibromofluoromethane	29	30	98	87-118	
Toluene-D8	29	30	97	87-111	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Summary **407305**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596041-1-BLK	Matrix: WATER
Lab Sample Id: 596041-1-BLK	

Analytical Method: Mercury by EPA 245.1	Prep Method: E245.1P
Date Analyzed: Feb-21-11 13:51	Analyst: SOA
Seq Number: 844534	Date Prep: Feb-21-11 08:30
	Tech: SOA

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.200	0.0593	ug/L	U	1

Project: Florida Standard List of Methods

Version: 1.027



Blank Summary 407305



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: **596090-1-BLK** Matrix: **WATER**
 Lab Sample Id: **596090-1-BLK**

Analytical Method: **ICP-AES Metals by EPA 200.7** Prep Method: **E200.7P**
 Date Analyzed: **Feb-22-11 20:26** Analyst: **IST** Date Prep: **Feb-21-11 15:00** Tech: **TEM**
Seq Number: **845071**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Antimony	7440-36-0	U	20.0	4.10	ug/L	U	1
Beryllium	7440-41-7	U	4.00	1.20	ug/L	U	1
Cadmium	7440-43-9	U	5.00	1.10	ug/L	U	1
Chromium	7440-47-3	U	10.0	2.60	ug/L	U	1
Molybdenum	7439-98-7	U	10.0	2.40	ug/L	U	1
Nickel	7440-02-0	U	10.0	1.90	ug/L	U	1
Selenium	7782-49-2	U	30.0	6.70	ug/L	U	1
Silver	7440-22-4	U	20.0	5.40	ug/L	U	1
Zinc	7440-66-6	U	30.0	6.70	ug/L	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596092-1-BLK	Matrix: WATER
Lab Sample Id: 596092-1-BLK	

Analytical Method: Metals per ICP/MS by EPA 200.8	Prep Method: E200.8P
Date Analyzed: Feb-22-11 14:41 Analyst: DAF	Date Prep: Feb-21-11 16:00 Tech: TEM
Seq Number: 844789	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	4.00	0.900	ug/L	U	1
Lead	7439-92-1	U	4.00	1.13	ug/L	U	1
Thallium	7440-28-0	0.390	2.00	0.131	ug/L	I	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596099-1-BLK
Lab Sample Id: 596099-1-BLK

Matrix: WATER

Analytical Method: SVOCs by EPA 625

Prep Method: E625P

Date Analyzed: Feb-25-11 00:35

Analyst: BAT

Date Prep: Feb-23-11 12:30

Tech: HEA

Seq Number: 845263

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Acenaphthene	83-32-9	U	4.00	0.249	ug/L	U	1
Acenaphthylene	208-96-8	U	4.00	0.255	ug/L	U	1
Anthracene	120-12-7	U	4.00	0.249	ug/L	U	1
Benzidine	92-87-5	U	10.0	9.74	ug/L	U	1
Benzo(a)anthracene	56-55-3	U	4.00	0.274	ug/L	U	1
Benzo(a)pyrene	50-32-8	U	4.00	0.305	ug/L	U	1
Benzo(b)fluoranthene	205-99-2	U	4.00	0.247	ug/L	U	1
Benzo(k)fluoranthene	207-08-9	U	4.00	0.385	ug/L	U	1
Benzo(g,h,i)perylene	191-24-2	U	4.00	0.281	ug/L	U	1
Benzyl Alcohol	100-51-6	U	4.00	0.220	ug/L	U	1
Benzyl Butyl Phthalate	85-68-7	U	10.0	0.356	ug/L	U	1
bis(2-chloroethoxy) methane	111-91-1	U	4.00	0.316	ug/L	U	1
bis(2-chloroethyl) ether	111-44-4	U	4.00	0.461	ug/L	U	1
bis(2-chloroisopropyl) ether	108-60-1	U	4.00	0.341	ug/L	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	4.00	0.201	ug/L	U	1
4-Bromophenyl-phenylether	101-55-3	U	4.00	0.271	ug/L	U	1
4-chloro-3-methylphenol	59-50-7	U	4.00	0.221	ug/L	U	1
2-Chlorophenol	95-57-8	U	4.00	0.224	ug/L	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	4.00	0.446	ug/L	U	1
Chrysene	218-01-9	U	4.00	0.276	ug/L	U	1
Dibenz(a,h)Anthracene	53-70-3	U	4.00	0.550	ug/L	U	1
Dibenzofuran	132-64-9	U	10.0	0.0848	ug/L	U	1
di-n-Butyl Phthalate	84-74-2	U	4.00	0.211	ug/L	U	1
2,4-Dichlorophenol	120-83-2	U	4.00	0.432	ug/L	U	1
Diethyl Phthalate	84-66-2	U	10.0	0.328	ug/L	U	1
Dimethyl Phthalate	131-11-3	U	1.00	0.308	ug/L	U	1
2,4-Dimethylphenol	105-67-9	U	4.00	0.396	ug/L	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	10.0	0.353	ug/L	U	1
2,4-Dinitrophenol	51-28-5	U	10.0	1.40	ug/L	U	1
2,4-Dinitrotoluene	121-14-2	U	4.00	0.312	ug/L	U	1
2,6-Dinitrotoluene	606-20-2	U	4.00	0.310	ug/L	U	1
di-n-Octyl Phthalate	117-84-0	U	1.00	0.278	ug/L	U	1
1,2-Diphenylhydrazine	122-66-7	U	4.00	0.234	ug/L	U	1
Fluoranthene	206-44-0	U	4.00	0.201	ug/L	U	1
Fluorene	86-73-7	U	4.00	0.265	ug/L	U	1
Hexachlorobenzene	118-74-1	U	1.00	0.315	ug/L	U	1
Hexachlorobutadiene	87-68-3	U	4.00	0.448	ug/L	U	1
Hexachlorocyclopentadiene	77-47-4	U	4.00	0.741	ug/L	U	1
Hexachloroethane	67-72-1	U	2.00	0.362	ug/L	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	4.00	0.259	ug/L	U	1
Isophorone	78-59-1	U	4.00	0.337	ug/L	U	1
1-Methylnaphthalene	90-12-0	U	1.00	0.103	ug/L	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: **596099-1-BLK** Matrix: **WATER**
Lab Sample Id: **596099-1-BLK**

Analytical Method: **SVOCs by EPA 625** Prep Method: **E625P**
Date Analyzed: **Feb-25-11 00:35** Analyst: **BAT** Date Prep: **Feb-23-11 12:30** Tech: **HEA**
Seq Number: **845263**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
2-Methylnaphthalene	91-57-6	U	1.00	0.113	ug/L	U	1
2-methylphenol	95-48-7	U	4.00	0.230	ug/L	U	1
3&4-Methylphenol		U	4.00	0.230	ug/L	U	1
Naphthalene	91-20-3	U	4.00	0.338	ug/L	U	1
2-Nitroaniline	88-74-4	U	50.0	0.0598	ug/L	U	1
Nitrobenzene	98-95-3	U	4.00	0.306	ug/L	U	1
2-Nitrophenol	88-75-5	U	4.00	0.242	ug/L	U	1
4-Nitrophenol	100-02-7	U	10.0	0.786	ug/L	U	1
Pentachlorophenol	87-86-5	U	10.0	0.672	ug/L	U	1
Phenanthrene	85-01-8	U	4.00	0.288	ug/L	U	1
Phenol	108-95-2	U	1.00	0.405	ug/L	U	1
Pyrene	129-00-0	U	4.00	0.468	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	4.00	0.225	ug/L	U	1
2,4,5-Trichlorophenol	95-95-4	U	4.00	0.380	ug/L	U	1
2,4,6-Trichlorophenol	88-06-2	U	1.00	0.274	ug/L	U	1
N-Nitrosodimethylamine	62-75-9	U	4.00	0.310	ug/L	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	4.00	0.100	ug/L	U	1
N-Nitrosodiphenylamine	86-30-6	U	4.00	0.100	ug/L	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: **596100-1-BLK**
 Lab Sample Id: **596100-1-BLK**

Matrix: **WATER**

Analytical Method: Organochlorine Pesticides and PCBs by EPA 608

Prep Method: **E608P**

Date Analyzed: Feb-24-11 01:43

Analyst: **JGO**

Date Prep: Feb-23-11 10:30

Tech: **HBE**

Seq Number: **845273**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
4,4-DDD	72-54-8	U	0.00500	0.00150	ug/L	U	1
4,4-DDE	72-55-9	U	0.00500	0.000579	ug/L	U	1
4,4-DDT	50-29-3	U	0.00500	0.000824	ug/L	U	1
Aldrin	309-00-2	U	0.00500	0.00170	ug/L	U	1
Alpha-BHC	319-84-6	U	0.00500	0.000636	ug/L	U	1
Beta-BHC	319-85-7	U	0.00500	0.00130	ug/L	U	1
Chlordane	57-74-9	U	0.20	0.029	ug/L	U	1
Delta-BHC	319-86-8	U	0.00500	0.000760	ug/L	U	1
Dieldrin	60-57-1	U	0.00500	0.000586	ug/L	U	1
Endosulfan I	959-98-8	U	0.00500	0.000523	ug/L	U	1
Endosulfan II	33213-65-9	U	0.00500	0.000660	ug/L	U	1
Endosulfan Sulfate	1031-07-8	U	0.00500	0.000650	ug/L	U	1
Endrin	72-20-8	U	0.00500	0.000718	ug/L	U	1
Endrin Aldehyde	7421-93-4	U	0.00500	0.00109	ug/L	U	1
Gamma-BHC (Lindane)	8-89-9	U	0.00500	0.00167	ug/L	U	1
Heptachlor	76-44-8	U	0.00500	0.000542	ug/L	U	1
Heptachlor Epoxide	1024-57-3	U	0.00500	0.000615	ug/L	U	1
Methoxychlor	72-43-5	U	0.00500	0.000869	ug/L	U	1
Toxaphene	8001-35-2	U	0.20	0.063	ug/L	U	1
PCB-1016	12674-11-2	U	0.500	0.110	ug/L	U	1
PCB-1221	11104-28-2	U	0.500	0.108	ug/L	U	1
PCB-1232	11141-16-5	U	0.500	0.107	ug/L	U	1
PCB-1242	53469-21-9	U	0.500	0.149	ug/L	U	1
PCB-1248	12672-29-6	U	0.500	0.101	ug/L	U	1
PCB-1254	11097-69-1	U	0.500	0.129	ug/L	U	1
PCB-1260	11096-82-5	U	0.500	0.120	ug/L	U	1



Blank Summary **407305**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596109-1-BLK	Matrix: WATER
Lab Sample Id: 596109-1-BLK	

Analytical Method: Oil and Grease by EPA 1664A	Prep Method: E1664A_PREP
Date Analyzed: Feb-23-11 16:00 Analyst: TJH	Date Prep: Feb-22-11 13:58 Tech: LER
Seq Number: 844928	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Oil & Grease, HEM		U	4.00	1.43	mg/L	U	1

Project: Florida Standard List of Methods

Version: 1.027



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596514-1-BLK Matrix: WATER
Lab Sample Id: 596514-1-BLK

Analytical Method: ICP-AES Metals by EPA 200.7 Prep Method: E200.7P
Date Analyzed: Mar-03-11 05:29 Analyst: IST Date Prep: Feb-25-11 07:00 Tech: RWA
Seq Number: 846796

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Antimony	7440-36-0	U	20.0	4.10	ug/L	U	1
Beryllium	7440-41-7	U	4.00	1.20	ug/L	U	1
Cadmium	7440-43-9	U	5.00	1.10	ug/L	U	1
Chromium	7440-47-3	U	10.0	2.60	ug/L	U	1
Copper	7440-50-8	U	20.0	3.40	ug/L	U	1
Molybdenum	7439-98-7	U	10.0	2.40	ug/L	U	1
Nickel	7440-02-0	U	10.0	1.90	ug/L	U	1
Selenium	7782-49-2	U	30.0	6.70	ug/L	U	1
Silver	7440-22-4	U	20.0	5.40	ug/L	U	1
Zinc	7440-66-6	U	30.0	6.70	ug/L	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596550-1-BLK	Matrix: WATER
Lab Sample Id: 596550-1-BLK	

Analytical Method: E624 Volatile	Prep Method: SW5030B
Date Analyzed: Feb-25-11 03:48	Analyst: ROL
Seq Number: 845297	Date Prep: Feb-24-11 20:35
	Tech: ROL

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.113	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.0509	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.109	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.711	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.139	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.150	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.121	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.108	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.215	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.104	ug/L	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.0613	ug/L	U	1
Acrolein	107-02-8	U	10.0	2.37	ug/L	U	1
Acrylonitrile	107-13-1	U	2.00	0.408	ug/L	U	1
Benzene	71-43-2	U	1.00	0.249	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.0764	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.146	ug/L	U	1
Methyl bromide	74-83-9	U	1.00	0.183	ug/L	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.228	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.176	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.217	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.122	ug/L	U	1
Methyl Chloride	74-87-3	U	1.00	0.352	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.152	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.0586	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.210	ug/L	U	1
Methylene Chloride	75-09-2	U	5.00	1.27	ug/L	U	1
Tetrachloroethylene	127-18-4	U	1.00	0.0977	ug/L	U	1
Toluene	108-88-3	U	1.00	0.201	ug/L	U	1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.128	ug/L	U	1
trans-1,3-dichloropropene	10061-02-6	U	1.00	0.0536	ug/L	U	1
Trichloroethylene	79-01-6	U	1.00	0.357	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.120	ug/L	U	1
Vinyl Chloride	75-01-4	U	1.00	0.192	ug/L	U	1



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: E624 Volatile
Seq Number: 845297
MB Sample Id: 596550-1-BLK

Matrix: Water
LCS Sample Id: 596550-1-BKS

Prep Method: SW5030B
Date Prep: 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1-Dichloroethene	<0.139	20	19.4	97	10-234	ug/L	02/25/11 01:47	
Benzene	<0.249	20	18.5	93	37-151	ug/L	02/25/11 01:47	
Chlorobenzene	<0.176	20	17.2	86	37-160	ug/L	02/25/11 01:47	
Toluene	<0.201	20	14.3	72	47-150	ug/L	02/25/11 01:47	
Trichloroethylene	<0.357	20	16.9	85	71-157	ug/L	02/25/11 01:47	

Analytical Method: E624 Volatile
Seq Number: 845297
Parent Sample Id: 407563-001

Matrix: Ground Water
MS Sample Id: 407563-001 S

Prep Method: SW5030B
Date Prep: 02/24/2011
MSD Sample Id: 407563-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1-Dichloroethene	<0.139	20	23.0	115	24.7	124	10-234	7	20	ug/L	02/25/11 16:17	
Benzene	<0.249	20	19.2	96	19.7	99	37-151	3	20	ug/L	02/25/11 16:17	
Chlorobenzene	<0.176	20	17.9	90	18.5	93	37-160	3	20	ug/L	02/25/11 16:17	
Toluene	<0.201	20	17.1	86	17.8	89	47-150	4	20	ug/L	02/25/11 16:17	
Trichloroethylene	<0.357	20	17.9	90	18.3	92	71-157	2	20	ug/L	02/25/11 16:17	

Analytical Method: ICP-AES Metals by EPA 200.7
Seq Number: 846796
MB Sample Id: 596514-1-BLK

Matrix: Water
LCS Sample Id: 596514-1-BKS

Prep Method: E200.7P
Date Prep: 02/25/2011
LCSD Sample Id: 596514-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Antimony	<4.10	1000	932	93	935	94	70-130	0	20	ug/L	03/03/11 05:35	
Beryllium	<1.20	1000	1020	102	1020	102	70-130	0	20	ug/L	03/03/11 05:35	
Cadmium	<1.10	1000	954	95	955	96	70-130	0	20	ug/L	03/03/11 05:35	
Chromium	<2.60	1000	905	91	902	90	70-130	0	20	ug/L	03/03/11 05:35	
Copper	<3.40	1000	919	92	918	92	70-130	0	20	ug/L	03/03/11 05:35	
Molybdenum	<2.40	1000	845	85	850	85	70-130	1	20	ug/L	03/03/11 05:35	
Nickel	<1.90	1000	925	93	922	92	70-130	0	20	ug/L	03/03/11 05:35	
Selenium	<6.70	1000	909	91	909	91	70-130	0	20	ug/L	03/03/11 05:35	
Silver	<5.40	500	461	92	457	91	70-130	1	20	ug/L	03/03/11 05:35	
Zinc	<6.70	1000	859	86	855	86	70-130	0	20	ug/L	03/03/11 05:35	

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: ICP-AES Metals by EPA 200.7

Seq Number: 845071

MB Sample Id: 596090-1-BLK

Matrix: Water

LCS Sample Id: 596090-1-BKS

Prep Method: E200.7P

Date Prep: 02/21/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Antimony	<4.10	1000	1050	105	70-130	ug/L	02/22/11 14:36	
Beryllium	<1.20	1000	1040	104	70-130	ug/L	02/22/11 14:36	
Cadmium	<1.10	1000	1100	110	70-130	ug/L	02/22/11 14:36	
Chromium	<2.60	1000	1060	106	70-130	ug/L	02/22/11 14:36	
Copper	22.2	1000	1080	108	70-130	ug/L	02/22/11 14:36	
Molybdenum	<2.40	1000	1080	108	70-130	ug/L	02/22/11 14:36	
Nickel	<1.90	1000	1040	104	70-130	ug/L	02/22/11 14:36	
Selenium	<6.70	1000	1160	116	70-130	ug/L	02/22/11 14:36	
Silver	<5.40	500	495	99	70-130	ug/L	02/22/11 14:36	
Zinc	<6.70	1000	1040	104	70-130	ug/L	02/22/11 14:36	

Analytical Method: ICP-AES Metals by EPA 200.7

Seq Number: 845071

Parent Sample Id: 407153-003

Matrix: Waste Water

MS Sample Id: 407153-003 S

Prep Method: E200.7P

Date Prep: 02/21/2011

MSD Sample Id: 407153-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Antimony	<4.10	1000	1070	107	1090	109	70-130	2	20	ug/L	02/22/11 15:11	
Beryllium	<1.20	1000	1060	106	1060	106	70-130	0	20	ug/L	02/22/11 15:11	
Cadmium	<1.10	1000	1110	111	1110	111	70-130	0	20	ug/L	02/22/11 15:11	
Chromium	<2.60	1	1050	105	1070	107	70-130	2	20	ug/L	02/22/11 15:11	
Copper	<3.40	1000	1080	108	1110	111	70-130	3	20	ug/L	02/22/11 15:11	
Molybdenum	2.46	1000	1070	107	1090	109	70-130	2	20	ug/L	02/22/11 15:11	
Nickel	3.07	1000	1040	104	1060	106	70-130	2	20	ug/L	02/22/11 15:11	
Selenium	<6.70	1	1180	118	1200	120	70-130	2	20	ug/L	02/22/11 15:11	
Silver	<5.40	500	538	108	553	111	70-130	3	20	ug/L	02/22/11 15:11	
Zinc	16.9	1	1080	106	1100	108	70-130	2	20	ug/L	02/22/11 15:11	

Analytical Method: ICP-AES Metals by EPA 200.7

Seq Number: 846796

Parent Sample Id: 406745-001

Matrix: Water

MS Sample Id: 406745-001 S

Prep Method: E200.7P

Date Prep: 02/25/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Antimony	9.41	1000	996	99	70-130	ug/L	03/03/11 05:59	
Beryllium	<1.20	1000	1140	114	70-130	ug/L	03/03/11 05:59	
Cadmium	5.18	1000	1030	102	70-130	ug/L	03/03/11 05:59	
Chromium	56.2	1000	1030	97	70-130	ug/L	03/03/11 05:59	
Copper	96.7	1000	1110	101	70-130	ug/L	03/03/11 05:59	
Molybdenum	25.6	1000	943	92	70-130	ug/L	03/03/11 05:59	
Nickel	42.0	1000	998	96	70-130	ug/L	03/03/11 05:59	
Selenium	15.4	1000	994	98	70-130	ug/L	03/03/11 05:59	
Silver	6.80	500	577	114	70-130	ug/L	03/03/11 05:59	
Zinc	5480	1000	7010	153	70-130	ug/L	03/03/11 05:59	J



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Mercury by EPA 245.1
Seq Number: 844534
MB Sample Id: 596041-1-BLK

Matrix: Water
LCS Sample Id: 596041-1-BKS

Prep Method: E245.1P
Date Prep: 02/21/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Mercury	<0.0593	2	1.96	98	85-115	ug/L	02/21/11 13:53	

Analytical Method: Mercury by EPA 245.1
Seq Number: 844534
Parent Sample Id: 406837-001

Matrix: Water
MS Sample Id: 406837-001 S

Prep Method: E245.1P
Date Prep: 02/21/2011
MSD Sample Id: 406837-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0593	2	2.03	102	2.10	105	85-115	3	20	ug/L	02/21/11 13:55	

Analytical Method: Oil and Grease by EPA 1664A
Seq Number: 844928
MB Sample Id: 596109-1-BLK

Matrix: Water
LCS Sample Id: 596109-1-BKS

Prep Method: E1664A_PREP
Date Prep: 02/22/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Oil & Grease, HEM	<1.43	200	164	82	78-114	mg/L	02/23/11 16:00	

Analytical Method: Oil and Grease by EPA 1664A
Seq Number: 844928
Parent Sample Id: 407390-001

Matrix: Water
MS Sample Id: 407390-001 S

Prep Method: E1664A_PREP
Date Prep: 02/22/2011
MSD Sample Id: 407390-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Oil & Grease, HEM	<1.43	200	162	81	165	83	78-114	2	18	mg/L	02/23/11 16:00	

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Organochlorine Pesticides and PCBs by EPA 608

Prep Method: E608P

Seq Number: 845273

Matrix: Water

Date Prep: 02/23/2011

MB Sample Id: 596100-1-BLK

LCS Sample Id: 596100-1-BKS

LCSD Sample Id: 596100-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00150	0.1	0.084	84	0.081	81	28-209	4	20	ug/L	02/24/11 02:22	
4,4-DDE	<0.000579	0.1	0.081	81	0.073	73	38-174	10	20	ug/L	02/24/11 02:22	
4,4-DDT	<0.000824	0.1	0.086	86	0.080	80	14-228	7	20	ug/L	02/24/11 02:22	
Aldrin	<0.00170	0.1	0.076	76	0.052	52	43-149	38	20	ug/L	02/24/11 02:22	J
Alpha-BHC	<0.000636	0.1	0.071	71	0.067	67	33-150	6	20	ug/L	02/24/11 02:22	
Beta-BHC	<0.00130	0.1	0.068	68	0.065	65	37-162	5	20	ug/L	02/24/11 02:22	
Delta-BHC	<0.000760	0.1	0.075	75	0.070	70	0-146	7	20	ug/L	02/24/11 02:22	
Dieldrin	<0.000586	0.1	0.085	85	0.080	80	47-162	6	20	ug/L	02/24/11 02:22	
Endosulfan I	<0.000523	0.1	0.077	77	0.068	68	42-148	12	20	ug/L	02/24/11 02:22	
Endosulfan II	<0.000660	0.1	0.085	85	0.080	80	19-214	6	20	ug/L	02/24/11 02:22	
Endosulfan Sulfate	<0.000650	0.1	0.087	87	0.082	82	8-218	6	20	ug/L	02/24/11 02:22	
Endrin	<0.000718	0.1	0.083	83	0.079	79	41-189	5	20	ug/L	02/24/11 02:22	
Endrin Aldehyde	<0.00109	0.1	0.083	83	0.079	79	12-217	5	20	ug/L	02/24/11 02:22	
Gamma-BHC (Lindane)	<0.00167	0.1	0.071	71	0.069	69	33-155	3	20	ug/L	02/24/11 02:22	
Heptachlor	<0.000542	0.1	0.069	69	0.048	48	47-148	36	20	ug/L	02/24/11 02:22	J
Heptachlor Epoxide	<0.000615	0.1	0.076	76	0.071	71	48-138	7	20	ug/L	02/24/11 02:22	
Methoxychlor	<0.000869	0.1	0.088	88	0.085	85	0-317	3	20	ug/L	02/24/11 02:22	

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: SVOCs by EPA 625

Seq Number: 845263

MB Sample Id: 596099-1-BLK

Matrix: Water

LCS Sample Id: 596099-1-BKS

Prep Method: E625P

Date Prep: 02/23/2011

LCSD Sample Id: 596099-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acenaphthene	<0.249	50	40.3	81	40.2	80	47-145	0	20	ug/L	02/25/11 00:53	
Acenaphthylene	<0.255	50	38.5	77	38.6	77	33-145	0	20	ug/L	02/25/11 00:53	
Anthracene	<0.249	50	41.1	82	42.4	85	27-133	3	20	ug/L	02/25/11 00:53	
Benzidine	<9.74	50	15.6	31	14.6	29	10-89	7	20	ug/L	02/25/11 00:53	
Benzo(a)anthracene	<0.274	50	43.0	86	44.5	89	33-143	3	20	ug/L	02/25/11 00:53	
Benzo(a)pyrene	<0.305	50	44.8	90	44.5	89	17-163	1	20	ug/L	02/25/11 00:53	
Benzo(b)fluoranthene	<0.247	50	53.1	106	55.4	111	24-159	4	20	ug/L	02/25/11 00:53	
Benzo(k)fluoranthene	<0.385	50	37.8	76	36.8	74	11-162	3	20	ug/L	02/25/11 00:53	
Benzo(g,h,i)perylene	<0.281	50	44.8	90	46.0	92	10-219	3	20	ug/L	02/25/11 00:53	
Benzyl Alcohol	<0.220	50	32.9	66	30.5	61	42-83	8	20	ug/L	02/25/11 00:53	
Benzyl Butyl Phthalate	<0.356	50	42.0	84	42.1	84	10-152	0	20	ug/L	02/25/11 00:53	
bis(2-chloroethoxy) methane	<0.316	50	37.4	75	35.3	71	33-184	6	20	ug/L	02/25/11 00:53	
bis(2-chloroethyl) ether	<0.461	50	34.7	69	34.1	68	12-158	2	20	ug/L	02/25/11 00:53	
bis(2-chloroisopropyl) ether	<0.341	50	39.3	79	38.0	76	36-166	3	20	ug/L	02/25/11 00:53	
bis(2-ethylhexyl) phthalate	<0.201	50	42.3	85	42.6	85	10-158	1	20	ug/L	02/25/11 00:53	
4-chloro-3-methylphenol	<0.221	50	40.1	80	37.6	75	22-147	6	20	ug/L	02/25/11 00:53	
2-Chlorophenol	<0.224	50	33.2	66	32.0	64	23-134	4	20	ug/L	02/25/11 00:53	
Chrysene	<0.276	50	47.3	95	47.4	95	17-168	0	20	ug/L	02/25/11 00:53	
Dibenz(a,h)Anthracene	<0.550	50	45.1	90	45.3	91	10-227	0	20	ug/L	02/25/11 00:53	
Dibenzofuran	<0.0848	50	41.4	83	41.7	83	56-97	1	20	ug/L	02/25/11 00:53	
di-n-Butyl Phthalate	<0.211	50	43.2	86	43.5	87	10-118	1	20	ug/L	02/25/11 00:53	
2,4-Dichlorophenol	<0.432	50	39.3	79	37.3	75	39-135	5	20	ug/L	02/25/11 00:53	
Diethyl Phthalate	<0.328	50	43.3	87	43.1	86	10-114	0	20	ug/L	02/25/11 00:53	
Dimethyl Phthalate	<0.308	50	41.3	83	40.9	82	10-112	1	20	ug/L	02/25/11 00:53	
2,4-Dimethylphenol	<0.396	50	39.0	78	37.6	75	32-119	4	20	ug/L	02/25/11 00:53	
4,6-dinitro-2-methyl phenol	<0.353	50	18.5	37	18.0	36	10-181	3	20	ug/L	02/25/11 00:53	
2,4-Dinitrophenol	<1.40	50	8.31	17	8.00	16	10-191	4	20	ug/L	02/25/11 00:53	
2,4-Dinitrotoluene	<0.312	50	43.7	87	43.9	88	39-139	0	20	ug/L	02/25/11 00:53	
2,6-Dinitrotoluene	<0.310	50	42.1	84	40.2	80	50-158	5	20	ug/L	02/25/11 00:53	
di-n-Octyl Phthalate	<0.278	50	42.7	85	42.7	85	10-146	0	20	ug/L	02/25/11 00:53	
Fluoranthene	<0.201	50	43.9	88	45.5	91	26-137	4	20	ug/L	02/25/11 00:53	
Fluorene	<0.265	50	42.3	85	41.9	84	59-121	1	20	ug/L	02/25/11 00:53	
Hexachlorobenzene	<0.315	50	38.7	77	39.0	78	10-152	1	20	ug/L	02/25/11 00:53	
Hexachlorobutadiene	<0.448	50	19.5	39	19.5	39	24-116	0	20	ug/L	02/25/11 00:53	
Hexachlorocyclopentadiene	<0.741	50	9.28	19	9.73	19	22-106	5	20	ug/L	02/25/11 00:53	J
Hexachloroethane	<0.362	50	18.5	37	18.0	36	40-113	3	20	ug/L	02/25/11 00:53	J
Indeno(1,2,3-c,d)Pyrene	<0.259	50	45.2	90	45.5	91	10-171	1	20	ug/L	02/25/11 00:53	
1-Methylnaphthalene	<0.103	50	33.5	67	33.1	66	52-99	1	20	ug/L	02/25/11 00:53	
2-Methylnaphthalene	<0.113	50	32.9	66	33.0	66	47-96	0	20	ug/L	02/25/11 00:53	
2-methylphenol	<0.230	50	31.0	62	28.6	57	44-86	8	20	ug/L	02/25/11 00:53	
3&4-Methylphenol	<0.230	100	52.4	52	49.0	49	38-84	7	20	ug/L	02/25/11 00:53	
Naphthalene	<0.338	50	30.1	60	29.6	59	21-133	2	20	ug/L	02/25/11 00:53	
2-Nitroaniline	<0.0598	50	49.0	98	48.3	97	58-97	1	20	ug/L	02/25/11 00:53	J
Nitrobenzene	<0.306	50	39.3	79	37.0	74	35-180	6	20	ug/L	02/25/11 00:53	
2-Nitrophenol	<0.242	50	36.8	74	35.4	71	29-182	4	20	ug/L	02/25/11 00:53	
4-Nitrophenol	<0.786	50	21.8	44	20.6	41	10-132	6	20	ug/L	02/25/11 00:53	



Florida Testing Services, LLC

QC Summary

407305



Miami Dade Water & Sewer-South District, Miami, FL

ANNUAL PRIORITY POLLUTANTS

Analytical Method: SVOCs by EPA 625

Seq Number: 845263

MB Sample Id: 596099-1-BLK

Matrix: Water

LCS Sample Id: 596099-1-BKS

Prep Method: E625P

Date Prep: 02/23/2011

LCSD Sample Id: 596099-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Pentachlorophenol	<0.672	50	36.4	73	36.8	74	14-176	1	20	ug/L	02/25/11 00:53	
Phenanthrene	<0.288	50	42.1	84	42.8	86	54-120	2	20	ug/L	02/25/11 00:53	
Phenol	<0.405	50	14.4	29	13.5	27	10-112	6	20	ug/L	02/25/11 00:53	
Pyrene	<0.468	50	41.6	83	40.6	81	52-115	2	20	ug/L	02/25/11 00:53	
2,4,5-Trichlorophenol	<0.380	50	42.7	85	41.3	83	54-111	3	20	ug/L	02/25/11 00:53	
2,4,6-Trichlorophenol	<0.274	50	41.5	83	40.2	80	37-144	3	20	ug/L	02/25/11 00:53	
N-Nitrosodimethylamine	<0.310	50	22.1	44	21.4	43	28-64	3	20	ug/L	02/25/11 00:53	
N-Nitrosodi-n-Propylamine	<0.100	50	40.0	80	38.5	77	10-230	4	20	ug/L	02/25/11 00:53	
N-Nitrosodiphenylamine	<0.100	50	37.1	74	36.8	74	42-113	1	20	ug/L	02/25/11 00:53	

Analytical Method: Metals per ICP/MS by EPA 200.8

Seq Number: 844789

MB Sample Id: 596092-1-BLK

Matrix: Water

LCS Sample Id: 596092-1-BKS

Prep Method: E200.8P

Date Prep: 02/21/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Arsenic	<0.900	200	204	102	85-115	ug/L	02/22/11 14:49	
Lead	<1.13	200	205	103	85-115	ug/L	02/22/11 14:49	
Thallium	0.390	200	204	102	85-115	ug/L	02/22/11 14:49	

Analytical Method: Metals per ICP/MS by EPA 200.8

Seq Number: 844789

Parent Sample Id: 407326-001

Matrix: Drinking Water

MS Sample Id: 407326-001 S

Prep Method: E200.8P

Date Prep: 02/21/2011

MSD Sample Id: 407326-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.900	200	202	101	204	102	70-130	1	20	ug/L	02/22/11 15:13	
Lead	<1.13	200	206	103	209	105	70-130	1	20	ug/L	02/22/11 15:13	
Thallium	0.740	200	204	102	208	104	70-130	2	20	ug/L	02/22/11 15:13	

Analytical Method: Metals per ICP/MS by EPA 200.8

Seq Number: 844789

Parent Sample Id: 407326-002

Matrix: Drinking Water

MS Sample Id: 407326-002 S

Prep Method: E200.8P

Date Prep: 02/21/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Arsenic	<0.900	200	202	101	70-130	ug/L	02/22/11 15:36	
Lead	<1.13	200	208	104	70-130	ug/L	02/22/11 15:36	
Thallium	1.32	200	206	102	70-130	ug/L	02/22/11 15:36	



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Miami Dade Water & Sewer-South Distri

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 02/18/2011 06:02:00 PM

Temperature Measuring device used : T-108

Work Order #: 407305

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.6	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles/ container?	N/A	
#6 *Custody Seals Signed and dated for Containers/coolers	N/A	
#7 *Chain of Custody present?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	No	Total Phenols will be re-collected per client.
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	No	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	RKH	PH Device/Lot#
----------	-----	----------------

NonConformance:

SD-Plant 2 Influent Dioxin Screen: by EPA 625 was negative for 2,3,7,8-TCDD.

Total Phenols will be re-collected per client for Plant 2 Influent and re-submitted . EPA 420.1 was not analyzed on this work-order.

Batch 845273 608: % RPD between MS and MSD recoveries was outside method control limits for Aldrin and Heptachlor. Matrix Spike and Matrix Spike duplicate recoveries passed criteria.

Batch 845263 625: Spike recovery in the LCS and LCSD was outside method control criteria for Hexachlorocyclopentadiene,Hexachloroethane, 2-Nitroaniline. Target analytes were BDL. 3-4 Compounds are allowed to have spike recovery outside method control limits for full list 625 spike. Target analytes flagged with "J".

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ DateTime : _____



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Miami Dade Water & Sewer-South Distri

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 02/18/2011 06:02:00 PM

Work Order #: 407305

Sample Receipt Checklist

Checklist completed by:

Robert Khusainov

Date: 02/18/2011

Checklist reviewed by:

Mike Kimmel

Date: 03/09/2011



CHAIN OF CUSTODY RECORD

Atlanta: 6017 Financial Dr. Norcross, GA 30071 770-448-8800
 Boca Raton: 3231 NW 7th Ave, Boca Raton, FL 33431 561-447-7373
 Miami: 14100 Palmetto Frontage Rd, Miami Lakes, FL 33016 305-823-8500

Company: **MIAMI - DADE WATER + SEWER**
 Address: **8450 SW 232 ST**
 City: **MIAMI**

Quote #: **FL Zip: 33190**
 Phone: **786 268 5631**
 Fax: **786 268 5412**

Project Name: **Annual Priority Pollutants**
 Project ID: _____

Sampler Signature: _____
 Collect Date: _____
 Collect Time: _____
 Matrix Code: _____
 Composite or Grab: _____
 Field Filtered: _____
 Total # of Containers: _____

Circle One Event: Daily Weekly Monthly
 Quarterly Semi-Annual Annual N/A

State: **FL** Zip: **33190**

TAT Work Days = D Need results by: _____ Time: _____

Std (5-10D) 6Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

Lab W.O. **407305**

Field Billable Hrs: _____

Container Type Codes

Matrix Type Codes

Sample #	Reg. Program / Clean-up Std	FL TX GA NC SC NJ PA	OK LA AL IL Other	STATE for Certs & Regs	QA/QC Level & Certification	ADAPT	SEDD	ERPIMS	EDDs	COC & Labels	Coolers	Temp °C	YES	NO	N/A	
1	SD-PLANT 2 INFLUENT	2/18/11	24HR	WN/C	3											
2	SD-PLANT 2 INFLUENT	2/18/11	0825	WN/G	5											
3																
4																
5																
6																
7																
8																
9																
0																

Remarks: **Please include Molybdenum Dibromoethane 2-methyl-4,6-dinitrophenol 2,3,7,8-tetrachlorodibenzo-p-dioxin Mercury**

Page 1 of 1

290957

XENCO LABORATORIES

Container Receipt Verification Form

Work Order Number: 407305 Chain of Custody Number(s): _____

Tests	Container Type/ Pres.	gal GA	32oz NM GA <i>cool test, 608, 609</i>	32oz NM GA <i>016</i>	32oz NM GA	32oz WM GA	VON <i>ACE</i>	VON <i>624</i>	VOA <i>Almond 420.1</i>	120mL P w. Pill	4oz Plastic	4oz Plastic	250mL HDPE <i>WV02</i>	250mL HDPE <i>WV02</i>	500mL HDPE	500mL HDPE	500mL HDPE	90z GC	90z GC	90z GC	40z GC	40z GC	20z GC	20z GC	Teddler Bag	Ampules	Other	Comments		
1																														
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														

Abbreviations:
 Gal GA = One gallon amber
 32oz NM GA = 32 oz Amberglass
 VOA = 40mL vials
 32oz WM GA = 32 oz Wide Mouth Amberglass
 1L HDPE = 1L (1000mL) Plastic Bottle
 500mL HDPE = 500mL Plastic Bottle
 250mL HDPE = 250mL Plastic Bottle
 8oz GC = 8oz Soil Jar
 4oz GC = 4oz Soil Jar
 2oz GC = 2oz soil jar
 120mL Plastic w. Pill = BacT
 Zip = Ziplock Bag
 4oz Plastic = 4oz Plastic Bottle

Chemicals:
 HCl = Hydrochloric Acid
 H2SO4 = Sulfuric Acid
 NaOH = Sodium Hydroxide
 MeOH = Methanol
 HNO3 = Nitric Acid
 ZnAc = Zinc Acetate
 Na2S2O3 = Sodium Thiosulfate

Other:
 NE4Cl2 = Ammonium Chloride
 DI H2O = DI Water
 MCAA = Monochloroacetic Acid

Reviewed By: _____

Analytical Report 407307

for

Miami Dade Water & Sewer-South District

Project Manager: CLIVE POWELL

ANNUAL PRIORITY POLLUTANTS

31-MAR-11



Genapure™
Analytical Services, Inc.



3231 NW 7th Avenue, Boca Raton, FL 33431

Ph:(561) 447-7373 Fax:(561) 447-6136

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



31-MAR-11

Project Manager: **CLIVE POWELL**
Miami Dade Water & Sewer-South District
8950 SW 232 Street
Miami, FL 33190

Reference: XENCO Report No: **407307**
ANNUAL PRIORITY POLLUTANTS
Project Address:

CLIVE POWELL:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 407307. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 407307 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mike Kimmel
Office Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America*



Sample Cross Reference 407307



Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SD-Plant 1 Influent	W	Feb-18-11 00:00		407307-001
SD-Plant 1 Influent	W	Feb-18-11 08:10		407307-002



CASE NARRATIVE SUMMARY



Client Name: *Miami Dade Water & Sewer-South D*
Project Name: *ANNUAL PRIORITY POLLUTANTS*

Project ID:
Work Order Number: 407307

Report Date: 31-MAR-11
Date Received: 18-FEB-11

Phenols for 420.1 are being recollected and re-submitted per client under another work-order.

Batch 845273 608: % RPD was outside method control limits between the LCS and LCSD recoveries for Aldrin and Heptachlor. Individual recoveries were within limits. Analytes flagged with "J2".

Mike Kimmel
Office Manager



Certificate of Analytical Results 407307



**Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS**

Sample Id: SD-Plant I Influent	Matrix: Water	Date Received: Feb-18-11 18:00
Lab Sample Id: 407307-001	Date Collected: Feb-18-11 00:00	

Analytical Method: ICP-AES Metals by EPA 200.7	Prep Method: E200.7P
Tech: TEM	% Moisture:
Analyst: IST	Date Prep: Feb-21-11 15:00
Seq Number: 845071	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	U	20.0	4.10	ug/L	02/23/11 01:37	U	1
Beryllium	7440-41-7	U	4.00	1.20	ug/L	02/23/11 01:37	U	1
Cadmium	7440-43-9	U	5.00	1.10	ug/L	02/23/11 01:37	U	1
Chromium	7440-47-3	3.03	10.0	2.60	ug/L	02/23/11 01:37	I	1
Copper	7440-50-8	19.0	20.0	3.40	ug/L	03/03/11 06:42	I	1
Molybdenum	7439-98-7	3.26	10.0	2.40	ug/L	02/23/11 01:37	I	1
Nickel	7440-02-0	3.34	10.0	1.90	ug/L	02/23/11 01:37	I	1
Selenium	7782-49-2	U	30.0	6.70	ug/L	02/23/11 01:37	U	1
Silver	7440-22-4	U	20.0	5.40	ug/L	02/23/11 01:37	U	1
Zinc	7440-66-6	85.3	30.0	6.70	ug/L	02/23/11 01:37		1

Analytical Method: Mercury by BPA 245.1	Prep Method: E245.1P
Tech: SOA	% Moisture:
Analyst: SOA	Date Prep: Feb-21-11 08:30
Seq Number: 844534	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.136	0.200	0.0593	ug/L	02/21/11 14:25	I	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Plant 1 Influent	Matrix: Water	Date Received: Feb-18-11 18:00
Lab Sample Id: 407307-001	Date Collected: Feb-18-11 00:00	

Analytical Method: Organochlorine Pesticides and PCBs by EPA 608	Prep Method: E608P
Tech: HEE	% Moisture:
Analyst: JGO	Date Prep: Feb-23-11 10:30
Seq Number: 845273	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00500	0.00150	ug/L	02/24/11 20:49	U	1
4,4-DDE	72-55-9	U	0.00500	0.000579	ug/L	02/24/11 20:49	U	1
4,4-DDT	50-29-3	U	0.00500	0.000824	ug/L	02/24/11 20:49	U	1
Aldrin	309-00-2	U	0.00500	0.00170	ug/L	02/24/11 20:49	UJ2	1
Alpha-BHC	319-84-6	U	0.00500	0.000636	ug/L	02/24/11 20:49	U	1
Alpha-Chlordane	5103-71-9	U	0.00500	0.000528	ug/L	02/24/11 20:49	U	1
Beta-BHC	319-85-7	U	0.00500	0.00130	ug/L	02/24/11 20:49	U	1
Chlordane	57-74-9	U	0.20	0.029	ug/L	02/24/11 20:49	U	1
Delta-BHC	319-86-8	U	0.00500	0.000760	ug/L	02/24/11 20:49	U	1
Dieldrin	60-57-1	U	0.00500	0.000586	ug/L	02/24/11 20:49	U	1
Endosulfan I	959-98-8	U	0.00500	0.000523	ug/L	02/24/11 20:49	U	1
Endosulfan II	33213-65-9	U	0.00500	0.000660	ug/L	02/24/11 20:49	U	1
Endosulfan Sulfate	1031-07-8	U	0.00500	0.000650	ug/L	02/24/11 20:49	U	1
Endrin	72-20-8	U	0.00500	0.000718	ug/L	02/24/11 20:49	U	1
Endrin Aldehyde	7421-93-4	U	0.00500	0.00109	ug/L	02/24/11 20:49	U	1
Endrin Ketone	53494-70-5	U	0.00500	0.000666	ug/L	02/24/11 20:49	U	1
Gamma-BHC (Lindane)	8-89-9	U	0.00500	0.00167	ug/L	02/24/11 20:49	U	1
Gamma-Chlordane	5566-34-7	2.48	0.0500	0.00559	ug/L	02/25/11 10:59		10
Heptachlor	76-44-8	U	0.00500	0.000542	ug/L	02/24/11 20:49	UJ2	1
Heptachlor Epoxide	1024-57-3	U	0.00500	0.000615	ug/L	02/24/11 20:49	U	1
Methoxychlor	72-43-5	U	0.00500	0.000869	ug/L	02/24/11 20:49	U	1
Toxaphene	8001-35-2	U	0.20	0.063	ug/L	02/24/11 20:49	U	1
PCB-1016	12674-11-2	U	0.500	0.110	ug/L	02/24/11 20:49	U	1
PCB-1221	11104-28-2	U	0.500	0.108	ug/L	02/24/11 20:49	U	1
PCB-1232	11141-16-5	U	0.500	0.107	ug/L	02/24/11 20:49	U	1
PCB-1242	53469-21-9	U	0.500	0.149	ug/L	02/24/11 20:49	U	1
PCB-1248	12672-29-6	U	0.500	0.101	ug/L	02/24/11 20:49	U	1
PCB-1254	11097-69-1	U	0.500	0.129	ug/L	02/24/11 20:49	U	1
PCB-1260	11096-82-5	U	0.500	0.120	ug/L	02/24/11 20:49	U	1
PCB, Total	1336-36-3	U			ug/L	02/24/11 20:49	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Plant 1 Influent	Matrix: Water	Date Received: Feb-18-11 18:00
Lab Sample Id: 407307-001	Date Collected: Feb-18-11 00:00	

Analytical Method: SVOCs by EPA 625	Prep Method: E625P
Tech: HEA	% Moisture:
Analyst: BAT	Date Prep: Feb-23-11 12:30
Seq Number: 845263	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Acenaphthene	83-32-9	0.310	4.00	0.249	ug/L	02/25/11 02:19	I	1
Acenaphthylene	208-96-8	U	4.00	0.255	ug/L	02/25/11 02:19	U	1
Anthracene	120-12-7	U	4.00	0.249	ug/L	02/25/11 02:19	U	1
Benzydine	92-87-5	U	10.0	9.74	ug/L	02/25/11 02:19	U	1
Benzo(a)anthracene	56-55-3	U	4.00	0.274	ug/L	02/25/11 02:19	U	1
Benzo(a)pyrene	50-32-8	U	4.00	0.305	ug/L	02/25/11 02:19	U	1
Benzo(b)fluoranthene	205-99-2	U	4.00	0.247	ug/L	02/25/11 02:19	U	1
Benzo(g,h,i)perylene	191-24-2	U	4.00	0.281	ug/L	02/25/11 02:19	U	1
Benzyl Alcohol	100-51-6	11.8	4.00	0.220	ug/L	02/25/11 02:19		1
Benzyl Butyl Phthalate	85-68-7	U	10.0	0.356	ug/L	02/25/11 02:19	U	1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	ND				02/25/11 02:19		1
bis(2-chloroethoxy) methane	111-91-1	U	4.00	0.316	ug/L	02/25/11 02:19	U	1
bis(2-chloroethyl) ether	111-44-4	U	4.00	0.461	ug/L	02/25/11 02:19	U	1
bis(2-chloroisopropyl) ether	108-60-1	U	4.00	0.341	ug/L	02/25/11 02:19	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	4.00	0.201	ug/L	02/25/11 02:19	U	1
4-Bromophenyl-phenylether	101-55-3	U	4.00	0.271	ug/L	02/25/11 02:19	U	1
4-chloro-3-methylphenol	59-50-7	U	4.00	0.221	ug/L	02/25/11 02:19	U	1
2-Chlorophenol	95-57-8	U	4.00	0.224	ug/L	02/25/11 02:19	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	4.00	0.446	ug/L	02/25/11 02:19	U	1
Chrysene	218-01-9	U	4.00	0.276	ug/L	02/25/11 02:19	U	1
Dibenz(a,h)anthracene	53-70-3	U	4.00	0.550	ug/L	02/25/11 02:19	U	1
Dibenzofuran	132-64-9	U	10.0	0.0848	ug/L	02/25/11 02:19	U	1
di-n-Butyl Phthalate	84-74-2	U	4.00	0.211	ug/L	02/25/11 02:19	U	1
2,4-Dichlorophenol	120-83-2	U	4.00	0.432	ug/L	02/25/11 02:19	U	1
Diethyl Phthalate	84-66-2	6.12	10.0	0.328	ug/L	02/25/11 02:19	I	1
Dimethyl Phthalate	131-11-3	U	1.00	0.308	ug/L	02/25/11 02:19	U	1
2,4-Dimethylphenol	105-67-9	U	4.00	0.396	ug/L	02/25/11 02:19	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	10.0	0.353	ug/L	02/25/11 02:19	U	1
2,4-Dinitrophenol	51-28-5	U	10.0	1.40	ug/L	02/25/11 02:19	U	1
2,4-Dinitrotoluene	121-14-2	U	4.00	0.312	ug/L	02/25/11 02:19	U	1
2,6-Dinitrotoluene	606-20-2	U	4.00	0.310	ug/L	02/25/11 02:19	U	1
di-n-Octyl Phthalate	117-84-0	U	1.00	0.278	ug/L	02/25/11 02:19	U	1
1,2-Diphenylhydrazine	122-66-7	U	4.00	0.234	ug/L	02/25/11 02:19	U	1
Fluoranthene	206-44-0	U	4.00	0.201	ug/L	02/25/11 02:19	U	1
Fluorene	86-73-7	U	4.00	0.265	ug/L	02/25/11 02:19	U	1
Hexachlorobenzene	118-74-1	U	1.00	0.315	ug/L	02/25/11 02:19	U	1
Hexachlorobutadiene	87-68-3	U	4.00	0.448	ug/L	02/25/11 02:19	U	1
Hexachlorocyclopentadiene	77-47-4	U	4.00	0.741	ug/L	02/25/11 02:19	U	1
Hexachloroethane	67-72-1	U	2.00	0.362	ug/L	02/25/11 02:19	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	4.00	0.259	ug/L	02/25/11 02:19	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Plant 1 Influent	Matrix: Water	Date Received: Feb-18-11 18:00
Lab Sample Id: 407307-001	Date Collected: Feb-18-11 00:00	

Analytical Method: SVOCs by EPA 625	Prep Method: E625P
Tech: HEA	% Moisture:
Analyst: BAT	Date Prep: Feb-23-11 12:30
Seq Number: 845263	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Isophorone	78-59-1	U	4.00	0.337	ug/L	02/25/11 02:19	U	1
1-Methylnaphthalene	90-12-0	0.220	1.00	0.103	ug/L	02/25/11 02:19	I	1
2-Methylnaphthalene	91-57-6	U	1.00	0.113	ug/L	02/25/11 02:19	U	1
2-methylphenol	95-48-7	U	4.00	0.230	ug/L	02/25/11 02:19	U	1
3&4-Methylphenol		34.4	4.00	0.230	ug/L	02/25/11 02:19		1
Naphthalene	91-20-3	U	4.00	0.338	ug/L	02/25/11 02:19	U	1
2-Nitroaniline	88-74-4	U	50.0	0.0598	ug/L	02/25/11 02:19	U	1
Nitrobenzene	98-95-3	U	4.00	0.306	ug/L	02/25/11 02:19	U	1
2-Nitrophenol	88-75-5	U	4.00	0.242	ug/L	02/25/11 02:19	U	1
4-Nitrophenol	100-02-7	U	10.0	0.786	ug/L	02/25/11 02:19	U	1
Pentachlorophenol	87-86-5	U	10.0	0.672	ug/L	02/25/11 02:19	U	1
Phenanthrene	85-01-8	U	4.00	0.288	ug/L	02/25/11 02:19	U	1
Phenol	108-95-2	9.13	1.00	0.405	ug/L	02/25/11 02:19		1
Pyrene	129-00-0	U	4.00	0.468	ug/L	02/25/11 02:19	U	1
Benzoic Acid *	65-85-0	47.6	50.0	2.00	ug/L	02/25/11 02:19	I	1
1,2,4-Trichlorobenzene	120-82-1	U	4.00	0.225	ug/L	02/25/11 02:19	U	1
2,4,5-Trichlorophenol	95-95-4	U	4.00	0.380	ug/L	02/25/11 02:19	U	1
2,4,6-Trichlorophenol	88-06-2	U	1.00	0.274	ug/L	02/25/11 02:19	U	1
Nitrosomethylethylamine	10595-95-6	U	6.40	1.80	ug/L	02/25/11 02:19	U	1
N-Nitrosodiethylamine	55-18-5	U	3.70	2.60	ug/L	02/25/11 02:19	U	1
N-Nitrosodimethylamine	62-75-9	U	4.00	0.310	ug/L	02/25/11 02:19	U	1
N-Nitrosodiphenylamine	86-30-6	U	4.00	0.100	ug/L	02/25/11 02:19	U	1

Analytical Method: Metals per ICP/MS by EPA 200.8	Prep Method: E200.8P
Tech: TEM	% Moisture:
Analyst: DAF	Date Prep: Feb-21-11 16:00
Seq Number: 844789	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	U	4.00	0.900	ug/L	02/22/11 18:12	U	1
Lead	7439-92-1	1.23	4.00	1.13	ug/L	02/22/11 18:12	I	1
Thallium	7440-28-0	0.260	2.00	0.131	ug/L	02/22/11 18:12	VI	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Plant 1 Influent	Matrix: Water	Date Received: Feb-18-11 18:00
Lab Sample Id: 407307-002	Date Collected: Feb-18-11 08:10	

Analytical Method: E624 Volatile	Prep Method: SW5030B
Tech: ROL	% Moisture:
Analyst: ROL	Date Prep: Feb-24-11 20:35
Seq Number: 845297	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.113	ug/L	02/25/11 08:15	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.0509	ug/L	02/25/11 08:15	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.109	ug/L	02/25/11 08:15	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.711	ug/L	02/25/11 08:15	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.139	ug/L	02/25/11 08:15	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.150	ug/L	02/25/11 08:15	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.121	ug/L	02/25/11 08:15	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.108	ug/L	02/25/11 08:15	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.215	ug/L	02/25/11 08:15	U	1
1,4-Dichlorobenzene	106-46-7	3.13	1.00	0.104	ug/L	02/25/11 08:15		1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.0613	ug/L	02/25/11 08:15	U	1
Acrolein	107-02-8	U	10.0	2.37	ug/L	02/25/11 08:15	U	1
Acrylonitrile	107-13-1	U	2.00	0.408	ug/L	02/25/11 08:15	U	1
Benzene	71-43-2	U	1.00	0.249	ug/L	02/25/11 08:15	U	1
Bromodichloromethane	75-27-4	U	1.00	0.0764	ug/L	02/25/11 08:15	U	1
Bromoform	75-25-2	U	1.00	0.146	ug/L	02/25/11 08:15	U	1
Methyl bromide	74-83-9	U	1.00	0.183	ug/L	02/25/11 08:15	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.228	ug/L	02/25/11 08:15	U	1
Chlorobenzene	108-90-7	U	1.00	0.176	ug/L	02/25/11 08:15	U	1
Chloroethane	75-00-3	U	1.00	0.217	ug/L	02/25/11 08:15	U	1
Chloroform	67-66-3	1.05	1.00	0.122	ug/L	02/25/11 08:15		1
Methyl Chloride	74-87-3	U	1.00	0.352	ug/L	02/25/11 08:15	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.152	ug/L	02/25/11 08:15	U	1
Dibromochloromethane	124-48-1	U	1.00	0.0586	ug/L	02/25/11 08:15	U	1
Ethylbenzene	100-41-4	0.411	1.00	0.210	ug/L	02/25/11 08:15	I	1
Methylene Chloride	75-09-2	U	5.00	1.27	ug/L	02/25/11 08:15	U	1
Tetrachloroethylene	127-18-4	U	1.00	0.0977	ug/L	02/25/11 08:15	U	1
Toluene	108-88-3	5.35	1.00	0.201	ug/L	02/25/11 08:15		1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.128	ug/L	02/25/11 08:15	U	1
trans-1,3-dichloropropene	10061-02-6	U	1.00	0.0536	ug/L	02/25/11 08:15	U	1
Trichloroethylene	79-01-6	U	1.00	0.357	ug/L	02/25/11 08:15	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.120	ug/L	02/25/11 08:15	U	1
Vinyl Chloride	75-01-4	U	1.00	0.192	ug/L	02/25/11 08:15	U	1



Certificate of Analytical Results 407307



Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Plant 1 Influent	Matrix: Water	Date Received: Feb-18-11 18:00
Lab Sample Id: 407307-002	Date Collected: Feb-18-11 08:10	

Analytical Method: Oil and Grease by EPA 1664A	Prep Method: E1664A_PREP
Tech: LER	% Moisture:
Analyst: TJH	Date Prep: Feb-22-11 13:58
Seq Number: 844928	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Oil & Grease, HEM		24.0	4.00	1.43	mg/L	02/23/11 16:00		1

FLORIDA Flagging Criteria

- A** Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
- B** Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
- F** When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
- H** Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .
- J1: No known quality control criteria exist for the component;
 - J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);
 - J3: The sample matrix interfered with the ability to make any accurate determination;
 - J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).
 - J5: The field calibration verification did not meet calibration acceptance criteria.
 - J6: QC protocol not followed.

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5757 NW 158th St, Miami Lakes, FL 33014

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(305) 823-8500	(305) 823-8555

J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

- K** Off-scale low. Actual value is known to be less than the value given. This code shall be used if:
1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
- L** Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- M** When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.
- N** Presumptive evidence of presence of material. This qualifier shall be used if:
1. The component has been tentatively identified based on mass spectral library search; or
 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
- V** Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

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Flagging Criteria

- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z** Too many colonies were present for accurate counting. Historically, this condition has been reported as "too numerous to count" (TNTC). The "Z" qualifier code shall be reported when the total number of colonies of all types is more than 200 in all dilutions of the sample. When applicable to the observed test results, a numeric value for the colony count for the microorganism tested shall be estimated from the highest dilution factor (smallest sample volume) used for the test and reported with the qualifier code.
- ?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
- * Not reported due to interference.

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

- D** The sample result was reported from a dilution.
- E** Indicates that extra samples were taken at composite stations.
- R** Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
- !** Data deviate from historically established concentration ranges.
- +** Outside XENCO's scope of NELAC accreditation

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Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407307,

Project ID:

Lab Batch #: 845273

Sample: 596100-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 02/24/11 01:43	SURROGATE RECOVERY STUDY			
Organochlorine Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.0710	0.100	71	25-165	
Tetrachloro-m-xylene	0.0590	0.100	59	32-137	

Lab Batch #: 845273

Sample: 596100-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 02/24/11 02:22	SURROGATE RECOVERY STUDY			
Organochlorine Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.070	0.100	70	25-165	
Tetrachloro-m-xylene	0.059	0.100	59	32-137	

Lab Batch #: 845273

Sample: 596100-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 02/24/11 02:42	SURROGATE RECOVERY STUDY			
Organochlorine Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.066	0.100	66	25-165	
Tetrachloro-m-xylene	0.053	0.100	53	32-137	

Lab Batch #: 845273

Sample: 407307-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 02/24/11 20:49	SURROGATE RECOVERY STUDY			
Organochlorine Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.0638	0.100	64	25-165	
Tetrachloro-m-xylene	0.0499	0.100	50	32-137	

Lab Batch #: 845273

Sample: 407307-001 / DL

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 02/25/11 10:59	SURROGATE RECOVERY STUDY			
Organochlorine Pesticides and PCBs by EPA 608	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	0.0447	0.100	45	25-165	
Tetrachloro-m-xylene	0.111	0.100	111	32-137	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407307,

Project ID:

Lab Batch #: 845263

Sample: 596099-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 00:35

SURROGATE RECOVERY STUDY

SVOCs by EPA 625	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	33.2	50.0	66	40-112	
2-Fluorophenol	40.6	100	41	24-64	
Nitrobenzene-d5	36.5	50.0	73	39-117	
Terphenyl-D14	38.6	50.0	77	31-146	
2,4,6-Tribromophenol	79.4	100	79	52-121	
Phenol-d6	26.8	100	27	14-48	

Lab Batch #: 845263

Sample: 596099-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 00:53

SURROGATE RECOVERY STUDY

SVOCs by EPA 625	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	33.9	50.0	68	40-112	
2-Fluorophenol	43.4	100	43	24-64	
Nitrobenzene-d5	40.2	50.0	80	39-117	
Terphenyl-D14	39.5	50.0	79	31-146	
2,4,6-Tribromophenol	87.7	100	88	52-121	
Phenol-d6	30.8	100	31	14-48	

Lab Batch #: 845263

Sample: 596099-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 01:10

SURROGATE RECOVERY STUDY

SVOCs by EPA 625	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	32.3	50.0	65	40-112	
2-Fluorophenol	40.6	100	41	24-64	
Nitrobenzene-d5	39.0	50.0	78	39-117	
Terphenyl-D14	40.5	50.0	81	31-146	
2,4,6-Tribromophenol	90.2	100	90	52-121	
Phenol-d6	28.6	100	29	14-48	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407307,

Project ID:

Lab Batch #: 845263

Sample: 407307-001 / SMP

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 02:19

SURROGATE RECOVERY STUDY

SVOCs by EPA 625 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	31.3	50.0	63	40-112	
2-Fluorophenol	34.6	100	35	24-64	
Nitrobenzene-d5	32.6	50.0	65	39-117	
Terphenyl-D14	37.8	50.0	76	31-146	
2,4,6-Tribromophenol	80.5	100	81	52-121	
Phenol-d6	25.2	100	25	14-48	

Lab Batch #: 845297

Sample: 596550-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 01:47

SURROGATE RECOVERY STUDY

E624 Volatile Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	30	30	99	80-121	
Dibromofluoromethane	30	30	100	87-118	
Toluene-D8	26	30	87	87-111	

Lab Batch #: 845297

Sample: 596550-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 03:48

SURROGATE RECOVERY STUDY

E624 Volatile Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	30	30	99	80-121	
Dibromofluoromethane	30	30	100	87-118	
Toluene-D8	29	30	96	87-111	

Lab Batch #: 845297

Sample: 407307-002 / SMP

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/25/11 08:15

SURROGATE RECOVERY STUDY

E624 Volatile Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	29	30	97	80-121	
Dibromofluoromethane	31	30	103	87-118	
Toluene-D8	30	30	100	87-111	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407307,

Project ID:

Lab Batch #: 845297

Sample: 407563-001 S / MS

Batch: 1 Matrix: Ground Water

Units: ug/L

Date Analyzed: 02/25/11 16:17

SURROGATE RECOVERY STUDY					
E624 Volatile	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	28	30	94	80-121	
Dibromofluoromethane	30	30	99	87-118	
Toluene-D8	30	30	99	87-111	

Lab Batch #: 845297

Sample: 407563-001 SD / MSD

Batch: 1 Matrix: Ground Water

Units: ug/L

Date Analyzed: 02/25/11 16:41

SURROGATE RECOVERY STUDY					
E624 Volatile	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	28	30	92	80-121	
Dibromofluoromethane	29	30	98	87-118	
Toluene-D8	29	30	97	87-111	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596041-1-BLK	Matrix: WATER
Lab Sample Id: 596041-1-BLK	

Analytical Method: Mercury by EPA 245.1	Prep Method: E245.1P
Date Analyzed: Feb-21-11 13:51	Analyst: SOA
Seq Number: 844534	Date Prep: Feb-21-11 08:30
	Tech: SOA

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.200	0.0593	ug/L	U	1



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596090-1-BLK Matrix: WATER
Lab Sample Id: 596090-1-BLK

Analytical Method: ICP-AES Metals by EPA 200.7 Prep Method: E200.7P
Date Analyzed: Feb-22-11 20:26 Analyst: IST Date Prep: Feb-21-11 15:00 Tech: TEM
Seq Number: 845071

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Antimony	7440-36-0	U	20.0	4.10	ug/L	U	1
Beryllium	7440-41-7	U	4.00	1.20	ug/L	U	1
Cadmium	7440-43-9	U	5.00	1.10	ug/L	U	1
Chromium	7440-47-3	U	10.0	2.60	ug/L	U	1
Molybdenum	7439-98-7	U	10.0	2.40	ug/L	U	1
Nickel	7440-02-0	U	10.0	1.90	ug/L	U	1
Selenium	7782-49-2	U	30.0	6.70	ug/L	U	1
Silver	7440-22-4	U	20.0	5.40	ug/L	U	1
Zinc	7440-66-6	U	30.0	6.70	ug/L	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596092-1-BLK	Matrix: WATER
Lab Sample Id: 596092-1-BLK	

Analytical Method: Metals per ICP/MS by EPA 200.8	Prep Method: E200.8P
Date Analyzed: Feb-22-11 14:41	Analyst: DAF
Seq Number: 844789	Date Prep: Feb-21-11 16:00
	Tech: TEM

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	4.00	0.900	ug/L	U	1
Lead	7439-92-1	U	4.00	1.13	ug/L	U	1
Thallium	7440-28-0	0.390	2.00	0.131	ug/L	I	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596099-1-BLK	Matrix: WATER
Lab Sample Id: 596099-1-BLK	

Analytical Method: SVOCs by EPA 625	Prep Method: E625P
Date Analyzed: Feb-25-11 00:35 Analyst: BAT	Date Prep: Feb-23-11 12:30 Tech: HEA
Seq Number: 845263	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
4-Bromophenyl-phenylether	101-55-3	U	4.00	0.271	ug/L	U	1
4-chloro-3-methylphenol	59-50-7	U	4.00	0.221	ug/L	U	1
2-Chlorophenol	95-57-8	U	4.00	0.224	ug/L	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	4.00	0.446	ug/L	U	1
2,4-Dichlorophenol	120-83-2	U	4.00	0.432	ug/L	U	1
2,4-Dimethylphenol	105-67-9	U	4.00	0.396	ug/L	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	10.0	0.353	ug/L	U	1
2,4-Dinitrophenol	51-28-5	U	10.0	1.40	ug/L	U	1
1,2-Diphenylhydrazine	122-66-7	U	4.00	0.234	ug/L	U	1
Isophorone	78-59-1	U	4.00	0.337	ug/L	U	1
2-methylphenol	95-48-7	U	4.00	0.230	ug/L	U	1
3&4-Methylphenol		U	4.00	0.230	ug/L	U	1
2-Nitrophenol	88-75-5	U	4.00	0.242	ug/L	U	1
4-Nitrophenol	100-02-7	U	10.0	0.786	ug/L	U	1
Pentachlorophenol	87-86-5	U	10.0	0.672	ug/L	U	1
Phenol	108-95-2	U	1.00	0.405	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	4.00	0.225	ug/L	U	1
2,4,5-Trichlorophenol	95-95-4	U	4.00	0.380	ug/L	U	1
2,4,6-Trichlorophenol	88-06-2	U	1.00	0.274	ug/L	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: **596100-1-BLK** Matrix: **WATER**
Lab Sample Id: **596100-1-BLK**

Analytical Method: **Organochlorine Pesticides and PCBs by EPA 608** Prep Method: **E608P**
Date Analyzed: **Feb-24-11 01:43** Analyst: **JGO** Date Prep: **Feb-23-11 10:30** Tech: **HBE**
Seq Number: **845273**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
4,4-DDD	72-54-8	U	0.00500	0.00150	ug/L	U	1
4,4-DDE	72-55-9	U	0.00500	0.000579	ug/L	U	1
4,4-DDT	50-29-3	U	0.00500	0.000824	ug/L	U	1
Aldrin	309-00-2	U	0.00500	0.00170	ug/L	U	1
Alpha-BHC	319-84-6	U	0.00500	0.000636	ug/L	U	1
Beta-BHC	319-85-7	U	0.00500	0.00130	ug/L	U	1
Chlordane	57-74-9	U	0.20	0.029	ug/L	U	1
Delta-BHC	319-86-8	U	0.00500	0.000760	ug/L	U	1
Dieldrin	60-57-1	U	0.00500	0.000586	ug/L	U	1
Endosulfan I	959-98-8	U	0.00500	0.000523	ug/L	U	1
Endosulfan II	33213-65-9	U	0.00500	0.000660	ug/L	U	1
Endosulfan Sulfate	1031-07-8	U	0.00500	0.000650	ug/L	U	1
Endrin	72-20-8	U	0.00500	0.000718	ug/L	U	1
Endrin Aldehyde	7421-93-4	U	0.00500	0.00109	ug/L	U	1
Gamma-BHC (Lindane)	8-89-9	U	0.00500	0.00167	ug/L	U	1
Heptachlor	76-44-8	U	0.00500	0.000542	ug/L	U	1
Heptachlor Epoxide	1024-57-3	U	0.00500	0.000615	ug/L	U	1
Methoxychlor	72-43-5	U	0.00500	0.000869	ug/L	U	1
Toxaphene	8001-35-2	U	0.20	0.063	ug/L	U	1
PCB-1016	12674-11-2	U	0.500	0.110	ug/L	U	1
PCB-1221	11104-28-2	U	0.500	0.108	ug/L	U	1
PCB-1232	11141-16-5	U	0.500	0.107	ug/L	U	1
PCB-1242	53469-21-9	U	0.500	0.149	ug/L	U	1
PCB-1248	12672-29-6	U	0.500	0.101	ug/L	U	1
PCB-1254	11097-69-1	U	0.500	0.129	ug/L	U	1
PCB-1260	11096-82-5	U	0.500	0.120	ug/L	U	1



Blank Summary 407307



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596109-1-BLK	Matrix: WATER
Lab Sample Id: 596109-1-BLK	

Analytical Method: Oil and Grease by EPA 1664A	Prep Method: E1664A_PREP
Date Analyzed: Feb-23-11 16:00 Analyst: TJH	Date Prep: Feb-22-11 13:58 Tech: LER
Seq Number: 844928	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Oil & Grease, HEM		U	4.00	1.43	mg/L	U	1

Project: Florida Standard List of Methods

Version: 1.026



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596514-1-BLK Matrix: WATER
Lab Sample Id: 596514-1-BLK

Analytical Method: ICP-AES Metals by EPA 200.7 Prep Method: E200.7P
Date Analyzed: Mar-03-11 05:29 Analyst: IST Date Prep: Feb-25-11 07:00 Tech: RWA
Seq Number: 846796

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Antimony	7440-36-0	U	20.0	4.10	ug/L	U	1
Beryllium	7440-41-7	U	4.00	1.20	ug/L	U	1
Cadmium	7440-43-9	U	5.00	1.10	ug/L	U	1
Chromium	7440-47-3	U	10.0	2.60	ug/L	U	1
Copper	7440-50-8	U	20.0	3.40	ug/L	U	1
Molybdenum	7439-98-7	U	10.0	2.40	ug/L	U	1
Nickel	7440-02-0	U	10.0	1.90	ug/L	U	1
Selenium	7782-49-2	U	30.0	6.70	ug/L	U	1
Silver	7440-22-4	U	20.0	5.40	ug/L	U	1
Zinc	7440-66-6	U	30.0	6.70	ug/L	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596550-1-BLK Matrix: WATER
Lab Sample Id: 596550-1-BLK

Analytical Method: E624 Volatile Prep Method: SW5030B
Date Analyzed: Feb-25-11 03:48 Analyst: ROL Date Prep: Feb-24-11 20:35 Tech: ROL
Seq Number: 845297

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.113	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.0509	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.109	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.711	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.139	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.150	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.121	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.108	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.215	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.104	ug/L	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.0613	ug/L	U	1
Acrolein	107-02-8	U	10.0	2.37	ug/L	U	1
Acrylonitrile	107-13-1	U	2.00	0.408	ug/L	U	1
Benzene	71-43-2	U	1.00	0.249	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.0764	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.146	ug/L	U	1
Methyl bromide	74-83-9	U	1.00	0.183	ug/L	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.228	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.176	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.217	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.122	ug/L	U	1
Methyl Chloride	74-87-3	U	1.00	0.352	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.152	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.0586	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.210	ug/L	U	1
Methylene Chloride	75-09-2	U	5.00	1.27	ug/L	U	1
Tetrachloroethylene	127-18-4	U	1.00	0.0977	ug/L	U	1
Toluene	108-88-3	U	1.00	0.201	ug/L	U	1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.128	ug/L	U	1
trans-1,3-dichloropropene	10061-02-6	U	1.00	0.0536	ug/L	U	1
Trichloroethylene	79-01-6	U	1.00	0.357	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.120	ug/L	U	1
Vinyl Chloride	75-01-4	U	1.00	0.192	ug/L	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: E624 Volatile
Seq Number: 845297
MB Sample Id: 596550-1-BLK

Matrix: Water
LCS Sample Id: 596550-1-BKS

Prep Method: SW5030B
Date Prep: 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1-Dichloroethene	<0.139	20	19.4	97	10-234	ug/L	02/25/11 01:47	
Benzene	<0.249	20	18.5	93	37-151	ug/L	02/25/11 01:47	
Chlorobenzene	<0.176	20	17.2	86	37-160	ug/L	02/25/11 01:47	
Toluene	<0.201	20	14.3	72	47-150	ug/L	02/25/11 01:47	
Trichloroethylene	<0.357	20	16.9	85	71-157	ug/L	02/25/11 01:47	

Analytical Method: E624 Volatile
Seq Number: 845297
Parent Sample Id: 407563-001

Matrix: Ground Water
MS Sample Id: 407563-001 S

Prep Method: SW5030B
Date Prep: 02/24/2011
MSD Sample Id: 407563-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1-Dichloroethene	<0.139	20	23.0	115	24.7	124	10-234	7	20	ug/L	02/25/11 16:17	
Benzene	<0.249	20	19.2	96	19.7	99	37-151	3	20	ug/L	02/25/11 16:17	
Chlorobenzene	<0.176	20	17.9	90	18.5	93	37-160	3	20	ug/L	02/25/11 16:17	
Toluene	<0.201	20	17.1	86	17.8	89	47-150	4	20	ug/L	02/25/11 16:17	
Trichloroethylene	<0.357	20	17.9	90	18.3	92	71-157	2	20	ug/L	02/25/11 16:17	

Analytical Method: ICP-AES Metals by EPA 200.7
Seq Number: 846796
MB Sample Id: 596514-1-BLK

Matrix: Water
LCS Sample Id: 596514-1-BKS

Prep Method: E200.7P
Date Prep: 02/25/2011
LCSD Sample Id: 596514-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Antimony	<4.10	1000	932	93	935	94	70-130	0	20	ug/L	03/03/11 05:35	
Beryllium	<1.20	1000	1020	102	1020	102	70-130	0	20	ug/L	03/03/11 05:35	
Cadmium	<1.10	1000	954	95	955	96	70-130	0	20	ug/L	03/03/11 05:35	
Chromium	<2.60	1000	905	91	902	90	70-130	0	20	ug/L	03/03/11 05:35	
Copper	<3.40	1000	919	92	918	92	70-130	0	20	ug/L	03/03/11 05:35	
Molybdenum	<2.40	1000	845	85	850	85	70-130	1	20	ug/L	03/03/11 05:35	
Nickel	<1.90	1000	925	93	922	92	70-130	0	20	ug/L	03/03/11 05:35	
Selenium	<6.70	1000	909	91	909	91	70-130	0	20	ug/L	03/03/11 05:35	
Silver	<5.40	500	461	92	457	91	70-130	1	20	ug/L	03/03/11 05:35	
Zinc	<6.70	1000	859	86	855	86	70-130	0	20	ug/L	03/03/11 05:35	



QC Summary **407307**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: ICP-AES Metals by EPA 200.7
Seq Number: 845071
MB Sample Id: 596090-1-BLK

Matrix: Water
LCS Sample Id: 596090-1-BKS

Prep Method: E200.7P
Date Prep: 02/21/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Antimony	<4.10	1000	1050	105	70-130	ug/L	02/22/11 14:36	
Beryllium	<1.20	1000	1040	104	70-130	ug/L	02/22/11 14:36	
Cadmium	<1.10	1000	1100	110	70-130	ug/L	02/22/11 14:36	
Chromium	<2.60	1000	1060	106	70-130	ug/L	02/22/11 14:36	
Copper	22.2	1000	1080	108	70-130	ug/L	02/22/11 14:36	
Molybdenum	<2.40	1000	1080	108	70-130	ug/L	02/22/11 14:36	
Nickel	<1.90	1000	1040	104	70-130	ug/L	02/22/11 14:36	
Selenium	<6.70	1000	1160	116	70-130	ug/L	02/22/11 14:36	
Silver	<5.40	500	495	99	70-130	ug/L	02/22/11 14:36	
Zinc	<6.70	1000	1040	104	70-130	ug/L	02/22/11 14:36	

Analytical Method: ICP-AES Metals by EPA 200.7
Seq Number: 845071
Parent Sample Id: 407153-003

Matrix: Waste Water
MS Sample Id: 407153-003 S

Prep Method: E200.7P
Date Prep: 02/21/2011
MSD Sample Id: 407153-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Antimony	<4.10	1000	1070	107	1090	109	70-130	2	20	ug/L	02/22/11 15:11	
Beryllium	<1.20	1000	1060	106	1060	106	70-130	0	20	ug/L	02/22/11 15:11	
Cadmium	<1.10	1000	1110	111	1110	111	70-130	0	20	ug/L	02/22/11 15:11	
Chromium	<2.60	1	1050	105	1070	107	70-130	2	20	ug/L	02/22/11 15:11	
Copper	<3.40	1000	1080	108	1110	111	70-130	3	20	ug/L	02/22/11 15:11	
Molybdenum	2.46	1000	1070	107	1090	109	70-130	2	20	ug/L	02/22/11 15:11	
Nickel	3.07	1000	1040	104	1060	106	70-130	2	20	ug/L	02/22/11 15:11	
Selenium	<6.70	1	1180	118	1200	120	70-130	2	20	ug/L	02/22/11 15:11	
Silver	<5.40	500	538	108	553	111	70-130	3	20	ug/L	02/22/11 15:11	
Zinc	16.9	1	1080	106	1100	108	70-130	2	20	ug/L	02/22/11 15:11	

Analytical Method: ICP-AES Metals by EPA 200.7
Seq Number: 846796
Parent Sample Id: 406745-001

Matrix: Water
MS Sample Id: 406745-001 S

Prep Method: E200.7P
Date Prep: 02/25/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Antimony	9.41	1000	996	99	70-130	ug/L	03/03/11 05:59	
Beryllium	<1.20	1000	1140	114	70-130	ug/L	03/03/11 05:59	
Cadmium	5.18	1000	1030	102	70-130	ug/L	03/03/11 05:59	
Chromium	56.2	1000	1030	97	70-130	ug/L	03/03/11 05:59	
Copper	96.7	1000	1110	101	70-130	ug/L	03/03/11 05:59	
Molybdenum	25.6	1000	943	92	70-130	ug/L	03/03/11 05:59	
Nickel	42.0	1000	998	96	70-130	ug/L	03/03/11 05:59	
Selenium	15.4	1000	994	98	70-130	ug/L	03/03/11 05:59	
Silver	6.80	500	577	114	70-130	ug/L	03/03/11 05:59	
Zinc	5480	1000	7010	153	70-130	ug/L	03/03/11 05:59	J



QC Summary **407307**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Mercury by EPA 245.1
Seq Number: 844534
MB Sample Id: 596041-1-BLK

Matrix: Water
LCS Sample Id: 596041-1-BKS

Prep Method: E245.1P
Date Prep: 02/21/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Mercury	<0.0593	2	1.96	98	85-115	ug/L	02/21/11 13:53	

Analytical Method: Mercury by EPA 245.1
Seq Number: 844534
Parent Sample Id: 406837-001

Matrix: Water
MS Sample Id: 406837-001 S

Prep Method: E245.1P
Date Prep: 02/21/2011
MSD Sample Id: 406837-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0593	2	2.03	102	2.10	105	85-115	3	20	ug/L	02/21/11 13:55	

Analytical Method: Oil and Grease by EPA 1664A
Seq Number: 844928
MB Sample Id: 596109-1-BLK

Matrix: Water
LCS Sample Id: 596109-1-BKS

Prep Method: E1664A_PREP
Date Prep: 02/22/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Oil & Grease, HEM	<1.43	200	164	82	78-114	mg/L	02/23/11 16:00	

Analytical Method: Oil and Grease by EPA 1664A
Seq Number: 844928
Parent Sample Id: 407390-001

Matrix: Water
MS Sample Id: 407390-001 S

Prep Method: E1664A_PREP
Date Prep: 02/22/2011
MSD Sample Id: 407390-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Oil & Grease, HEM	<1.43	200	162	81	165	83	78-114	2	18	mg/L	02/23/11 16:00	



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Organochlorine Pesticides and PCBs by EPA 608

Seq Number: 845273

MB Sample Id: 596100-1-BLK

Matrix: Water

LCS Sample Id: 596100-1-BKS

Prep Method: E608P

Date Prep: 02/23/2011

LCSD Sample Id: 596100-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00150	0.1	0.084	84	0.081	81	28-209	4	20	ug/L	02/24/11 02:22	
4,4-DDE	<0.000579	0.1	0.081	81	0.073	73	38-174	10	20	ug/L	02/24/11 02:22	
4,4-DDT	<0.000824	0.1	0.086	86	0.080	80	14-228	7	20	ug/L	02/24/11 02:22	
Aldrin	<0.00170	0.1	0.076	76	0.052	52	43-149	38	20	ug/L	02/24/11 02:22	J
Alpha-BHC	<0.000636	0.1	0.071	71	0.067	67	33-150	6	20	ug/L	02/24/11 02:22	
Beta-BHC	<0.00130	0.1	0.068	68	0.065	65	37-162	5	20	ug/L	02/24/11 02:22	
Delta-BHC	<0.000760	0.1	0.075	75	0.070	70	0-146	7	20	ug/L	02/24/11 02:22	
Dieldrin	<0.000586	0.1	0.085	85	0.080	80	47-162	6	20	ug/L	02/24/11 02:22	
Endosulfan I	<0.000523	0.1	0.077	77	0.068	68	42-148	12	20	ug/L	02/24/11 02:22	
Endosulfan II	<0.000660	0.1	0.085	85	0.080	80	19-214	6	20	ug/L	02/24/11 02:22	
Endosulfan Sulfate	<0.000650	0.1	0.087	87	0.082	82	8-218	6	20	ug/L	02/24/11 02:22	
Endrin	<0.000718	0.1	0.083	83	0.079	79	41-189	5	20	ug/L	02/24/11 02:22	
Endrin Aldehyde	<0.00109	0.1	0.083	83	0.079	79	12-217	5	20	ug/L	02/24/11 02:22	
Gamma-BHC (Lindane)	<0.00167	0.1	0.071	71	0.069	69	33-155	3	20	ug/L	02/24/11 02:22	
Heptachlor	<0.000542	0.1	0.069	69	0.048	48	47-148	36	20	ug/L	02/24/11 02:22	J
Heptachlor Epoxide	<0.000615	0.1	0.076	76	0.071	71	48-138	7	20	ug/L	02/24/11 02:22	
Methoxychlor	<0.000869	0.1	0.088	88	0.085	85	0-317	3	20	ug/L	02/24/11 02:22	

Analytical Method: SVOCs by EPA 625

Seq Number: 845263

MB Sample Id: 596099-1-BLK

Matrix: Water

LCS Sample Id: 596099-1-BKS

Prep Method: E625P

Date Prep: 02/23/2011

LCSD Sample Id: 596099-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4-chloro-3-methylphenol	<0.221	50	40.1	80	37.6	75	22-147	6	20	ug/L	02/25/11 00:53	
2-Chlorophenol	<0.224	50	33.2	66	32.0	64	23-134	4	20	ug/L	02/25/11 00:53	
2,4-Dichlorophenol	<0.432	50	39.3	79	37.3	75	39-135	5	20	ug/L	02/25/11 00:53	
2,4-Dimethylphenol	<0.396	50	39.0	78	37.6	75	32-119	4	20	ug/L	02/25/11 00:53	
4,6-dinitro-2-methyl phenol	<0.353	50	18.5	37	18.0	36	10-181	3	20	ug/L	02/25/11 00:53	
2,4-Dinitrophenol	<1.40	50	8.31	17	8.00	16	10-191	4	20	ug/L	02/25/11 00:53	
2-methylphenol	<0.230	50	31.0	62	28.6	57	44-86	8	20	ug/L	02/25/11 00:53	
3&4-Methylphenol	<0.230	100	52.4	52	49.0	49	38-84	7	20	ug/L	02/25/11 00:53	
2-Nitrophenol	<0.242	50	36.8	74	35.4	71	29-182	4	20	ug/L	02/25/11 00:53	
4-Nitrophenol	<0.786	50	21.8	44	20.6	41	10-132	6	20	ug/L	02/25/11 00:53	
Pentachlorophenol	<0.672	50	36.4	73	36.8	74	14-176	1	20	ug/L	02/25/11 00:53	
Phenol	<0.405	50	14.4	29	13.5	27	10-112	6	20	ug/L	02/25/11 00:53	
2,4,5-Trichlorophenol	<0.380	50	42.7	85	41.3	83	54-111	3	20	ug/L	02/25/11 00:53	
2,4,6-Trichlorophenol	<0.274	50	41.5	83	40.2	80	37-144	3	20	ug/L	02/25/11 00:53	



QC Summary **407307**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Metals per ICP/MS by EPA 200.8

Prep Method: E200.8P

Seq Number: 844789

Matrix: Water

Date Prep: 02/21/2011

MB Sample Id: 596092-1-BLK

LCS Sample Id: 596092-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Arsenic	<0.900	200	204	102	85-115	ug/L	02/22/11 14:49	
Lead	<1.13	200	205	103	85-115	ug/L	02/22/11 14:49	
Thallium	0.390	200	204	102	85-115	ug/L	02/22/11 14:49	

Analytical Method: Metals per ICP/MS by EPA 200.8

Prep Method: E200.8P

Seq Number: 844789

Matrix: Drinking Water

Date Prep: 02/21/2011

Parent Sample Id: 407326-001

MS Sample Id: 407326-001 S

MSD Sample Id: 407326-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.900	200	202	101	204	102	70-130	1	20	ug/L	02/22/11 15:13	
Lead	<1.13	200	206	103	209	105	70-130	1	20	ug/L	02/22/11 15:13	
Thallium	0.740	200	204	102	208	104	70-130	2	20	ug/L	02/22/11 15:13	

Analytical Method: Metals per ICP/MS by EPA 200.8

Prep Method: E200.8P

Seq Number: 844789

Matrix: Drinking Water

Date Prep: 02/21/2011

Parent Sample Id: 407326-002

MS Sample Id: 407326-002 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Arsenic	<0.900	200	202	101	70-130	ug/L	02/22/11 15:36	
Lead	<1.13	200	208	104	70-130	ug/L	02/22/11 15:36	
Thallium	1.32	200	206	102	70-130	ug/L	02/22/11 15:36	



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Miami Dade Water & Sewer-South Distri

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 02/18/2011 06:00:00 PM

Temperature Measuring device used : T-108

Work Order #: 407307

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.6	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles/ container?	N/A	
#6 *Custody Seals Signed and dated for Containers/coolers	N/A	
#7 *Chain of Custody present?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	No	Phenols is being re-collected and re-submitted.
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	No	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	RKH	PH Device/Lot#
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NonConformance:

Phenols for 420.1 are being recollected and re-submitted per client under another work-order.

Batch 845273 608: % RPD was outside method control limits between the LCS and LCSD recoveries for Aldrin and Heptachlor. Individual recoveries were within limits. Analytes flagged with "J2".

Corrective Action Taken:

625 + 2,3,7,8-TCDD Dioxin Screen

Nonconformance Documentation

Contact: _____ Contacted by : _____ DateTime : _____

Checklist completed by: R. Khusainov
Robert Khusainov

Date: 02/18/2011

Checklist reviewed by: Mike Kimmel
Mike Kimmel

Date: 03/09/2011

Analytical Report 407308

for

Miami Dade Water & Sewer-South District

Project Manager: CLIVE POWELL

ANNUAL PRIORITY POLLUTANTS

09-MAR-11



Florida Testing Services, LLC



Genapure™
Analytical Services, Inc.



3231 NW 7th Avenue, Boca Raton, FL 33431

Ph:(561) 447-7373 Fax:(561) 447-6136

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



09-MAR-11

Project Manager: **CLIVE POWELL**
Miami Dade Water & Sewer-South District
8950 SW 232 Street
Miami, FL 33190

Reference: XENCO Report No: **407308**
ANNUAL PRIORITY POLLUTANTS
Project Address:

CLIVE POWELL:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 407308. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 407308 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mike Kimmel
Office Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America*



Sample Cross Reference 407308



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SD Dewatering Cake	S	Feb-18-11 10:10		407308-001

CASE NARRATIVE SUMMARY



Client Name: *Miami Dade Water & Sewer-South D*
Project Name: *ANNUAL PRIORITY POLLUTANTS*

Project ID:
Work Order Number: 407308

Report Date: 09-MAR-11
Date Received: 18-FEB-11

Batch 845292 8270: Spike Recovery in the LCS was outside method control limits for compounds flagged with "J". Analytes were BDL. NELAC criteria allows 5 compounds to have spike recovery outside method control limits when full list 8270 is spiked.

Batch 845040 8081: % RPD was outside method control limits between the MS and MSD in the spiked parent sample-407308-001. LCS recovery passed for compounds. Affected compounds flagged with "J2".

Batch 846051 8151-TCLP: % RPD was outside method control limits between the MS and MSD in the spiked parent sample-407308-001. LCS recovery passed for compounds. Affected compounds flagged with "J2".

Batch 845078 8260 TCLP: 2- Butanone had spike recovery above method criteria in the LCS. Analyte is BDL, compound flagged with "J".

Mike Kimmel
Office Manager

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD Dewatering Cake	Matrix: Soil	% Moisture: 83.5
Lab Sample Id: 407308-001	Date Collected: Feb-18-11 10:10	Basis: Dry Weight
	Date Received: Feb-18-11 18:00	

Analytical Method: ICP Metals by SW846 6010B	Prep Method: SW3050B
Analyst: IST	Date Prep: Feb-24-11 12:30
Seq Number: 846275	Tech: RWA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	3.85	12.1	2.60	mg/kg	03/01/11 07:18	I	1
Arsenic	7440-38-2	U	6.05	3.02	mg/kg	03/01/11 07:18	U	1
Beryllium	7440-41-7	U	2.42	0.665	mg/kg	03/01/11 07:18	U	1
Cadmium	7440-43-9	1.62	3.02	1.03	mg/kg	03/01/11 07:18	I	1
Chromium	7440-47-3	18.6	6.05	1.33	mg/kg	03/01/11 07:18		1
Copper	7440-50-8	338	12.1	2.60	mg/kg	03/01/11 07:18		1
Lead	7439-92-1	12.1	6.05	2.84	mg/kg	03/01/11 07:18		1
Molybdenum	7439-98-7	14.6	6.05	0.907	mg/kg	03/01/11 07:18		1
Nickel	7440-02-0	10.8	6.05	0.563	mg/kg	03/01/11 07:18		1
Selenium	7782-49-2	9.11	18.1	3.75	mg/kg	03/01/11 07:18	I	1
Silver	7440-22-4	12.8	12.1	4.29	mg/kg	03/01/11 07:18		1
Thallium	7440-28-0	U	12.1	2.78	mg/kg	03/01/11 07:18	U	1
Zinc	7440-66-6	1070	18.1	9.07	mg/kg	03/01/11 07:18		1

Analytical Method: Mercury by SW-846 7471A	Prep Method: SW7471P
Analyst: SOA	Date Prep: Feb-22-11 09:00
Seq Number: 844702	Tech: SOA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	1.39	0.202	0.0642	mg/kg	02/22/11 11:46		1

Analytical Method: Phenolics (Colorimetric, Automated 4-AAP With Distillation)	Tech: RPO
Analyst: MID	
Seq Number: 845193	

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Phenolic		14.7	3.03	1.27	mg/kg	02/24/11 16:35		1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD Dewatering Cake	Matrix: Soil	% Moisture: 83.5
Lab Sample Id: 407308-001	Date Collected: Feb-18-11 10:10	Basis: Dry Weight
	Date Received: Feb-18-11 18:00	

Analytical Method: SVOCs by SW846 8270C	Prep Method: SW3550
Analyst: JEZ	Date Prep: Feb-24-11 07:00
Seq Number: 845292	Tech: LUA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Acenaphthene	83-32-9	U	0.606	0.133	mg/kg	02/24/11 16:31	U	1
Acenaphthylene	208-96-8	U	0.606	0.182	mg/kg	02/24/11 16:31	U	1
Aniline (Phenylamine, Aminobenzene)	62-53-3	0.331	2.02	0.188	mg/kg	02/24/11 16:31	I	1
Anthracene	120-12-7	U	0.606	0.212	mg/kg	02/24/11 16:31	U	1
Benzo(a)anthracene	56-55-3	0.438	0.606	0.170	mg/kg	02/24/11 16:31	I	1
Benzo(a)pyrene	50-32-8	U	0.400	0.152	mg/kg	02/24/11 16:31	U	1
Benzo(b)fluoranthene	205-99-2	0.533	0.606	0.121	mg/kg	02/24/11 16:31	I	1
Benzo(g,h,i)perylene	191-24-2	U	0.606	0.164	mg/kg	02/24/11 16:31	U	1
Benzo(k)fluoranthene	207-08-9	0.410	0.606	0.200	mg/kg	02/24/11 16:31	I	1
Benzoic Acid	65-85-0	U	6.06	0.139	mg/kg	02/24/11 16:31	UJ	1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	ND				02/24/11 16:31		1
Benzyl Alcohol	100-51-6	U	2.02	0.127	mg/kg	02/24/11 16:31	U	1
Benzyl Butyl Phthalate	85-68-7	U	0.606	0.115	mg/kg	02/24/11 16:31	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.606	0.164	mg/kg	02/24/11 16:31	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.606	0.188	mg/kg	02/24/11 16:31	U	1
bis(2-chloroisopropyl) ether	108-60-1	U	0.606	0.115	mg/kg	02/24/11 16:31	U	1
bis(2-ethylhexyl) phthalate	117-81-7	8.52	2.02	0.133	mg/kg	02/24/11 16:31		1
4-Bromophenyl-phenylether	101-55-3	U	0.606	0.182	mg/kg	02/24/11 16:31	U	1
di-n-Butyl Phthalate	84-74-2	U	0.606	0.194	mg/kg	02/24/11 16:31	U	1
Carbazole	86-74-8	U	0.606	0.200	mg/kg	02/24/11 16:31	U	1
4-chloro-3-methylphenol	59-50-7	U	2.02	0.152	mg/kg	02/24/11 16:31	U	1
4-Chloroaniline	106-47-8	3.80	2.02	0.176	mg/kg	02/24/11 16:31		1
2-Chloronaphthalene	91-58-7	U	0.606	0.127	mg/kg	02/24/11 16:31	U	1
2-Chlorophenol	95-57-8	U	2.02	0.206	mg/kg	02/24/11 16:31	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.606	0.121	mg/kg	02/24/11 16:31	U	1
Chrysene	218-01-9	0.669	0.606	0.139	mg/kg	02/24/11 16:31		1
Dibenz(a,h)anthracene	53-70-3	U	0.400	0.164	mg/kg	02/24/11 16:31	U	1
Dibenzofuran	132-64-9	U	2.02	0.170	mg/kg	02/24/11 16:31	U	1
1,2-Dichlorobenzene	95-50-1	U	0.606	0.145	mg/kg	02/24/11 16:31	U	1
1,3-Dichlorobenzene	541-73-1	0.352	0.606	0.145	mg/kg	02/24/11 16:31	I	1
1,4-Dichlorobenzene	106-46-7	U	0.606	0.115	mg/kg	02/24/11 16:31	U	1
3,3-Dichlorobenzidine	91-94-1	U	4.04	0.115	mg/kg	02/24/11 16:31	U	1
2,4-Dichlorophenol	120-83-2	U	2.02	0.194	mg/kg	02/24/11 16:31	U	1
Diethyl Phthalate	84-66-2	U	0.606	0.188	mg/kg	02/24/11 16:31	U	1
Dimethyl Phthalate	131-11-3	U	0.606	0.0182	mg/kg	02/24/11 16:31	U	1
2,4-Dimethylphenol	105-67-9	U	2.02	0.133	mg/kg	02/24/11 16:31	U	1
2,4-Dinitrophenol	51-28-5	U	6.06	0.261	mg/kg	02/24/11 16:31	UJ	1
2,6-Dinitrotoluene	606-20-2	U	0.606	0.173	mg/kg	02/24/11 16:31	U	1
2,4-Dinitrotoluene	121-14-2	U	0.606	0.176	mg/kg	02/24/11 16:31	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.606	0.164	mg/kg	02/24/11 16:31	U	1



Certificate of Analytical Results 407308



Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: SD Dewatering Cake	Matrix: Soil	% Moisture: 83.5
Lab Sample Id: 407308-001	Date Collected: Feb-18-11 10:10	Basis: Dry Weight
	Date Received: Feb-18-11 18:00	

Analytical Method: SVOCs by SW846 8270C	Prep Method: SW3550
Analyst: JEZ	Date Prep: Feb-24-11 07:00
Seq Number: 845292	Tech: LUA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,6-dinitro-2-methyl phenol	534-52-1	U	6.06	0.145	mg/kg	02/24/11 16:31	UJ	1
Fluoranthene	206-44-0	0.917	0.606	0.230	mg/kg	02/24/11 16:31		1
Fluorene	86-73-7	U	0.606	0.139	mg/kg	02/24/11 16:31	U	1
Hexachlorobenzene	118-74-1	U	0.606	0.139	mg/kg	02/24/11 16:31	U	1
Hexachlorobutadiene	87-68-3	U	0.606	0.152	mg/kg	02/24/11 16:31	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.606	0.127	mg/kg	02/24/11 16:31	U	1
Hexachloroethane	67-72-1	U	0.606	0.164	mg/kg	02/24/11 16:31	U	1
Isophorone	78-59-1	U	0.606	0.139	mg/kg	02/24/11 16:31	U	1
2-Methylnaphthalene	91-57-6	U	1.21	0.170	mg/kg	02/24/11 16:31	U	1
2-methylphenol	95-48-7	U	2.02	0.212	mg/kg	02/24/11 16:31	U	1
1-Methylnaphthalene	90-12-0	U	0.606	0.164	mg/kg	02/24/11 16:31	U	1
3&4-Methylphenol		U	2.02	0.0206	mg/kg	02/24/11 16:31	UJ	1
Naphthalene	91-20-3	U	0.606	0.127	mg/kg	02/24/11 16:31	U	1
4-Nitroaniline	100-01-6	U	6.06	0.218	mg/kg	02/24/11 16:31	U	1
3-Nitroaniline	99-09-2	U	6.06	0.115	mg/kg	02/24/11 16:31	U	1
2-Nitroaniline	88-74-4	U	6.06	0.109	mg/kg	02/24/11 16:31	U	1
Nitrobenzene	98-95-3	U	0.606	0.170	mg/kg	02/24/11 16:31	U	1
2-Nitrophenol	88-75-5	U	2.02	0.109	mg/kg	02/24/11 16:31	U	1
4-Nitrophenol	100-02-7	U	6.06	0.200	mg/kg	02/24/11 16:31	U	1
n-Octadecane *	593-45-3	U	0.606	0.0646	mg/kg	02/24/11 16:31	U	1
di-n-Octyl Phthalate	117-84-0	U	0.606	0.273	mg/kg	02/24/11 16:31	U	1
Pentachlorophenol	87-86-5	U	6.06	0.152	mg/kg	02/24/11 16:31	UJ	1
Phenanthrene	85-01-8	0.251	0.606	0.194	mg/kg	02/24/11 16:31	I	1
Phenol	108-95-2	U	2.02	0.206	mg/kg	02/24/11 16:31	U	1
Pyrene	129-00-0	0.913	0.606	0.200	mg/kg	02/24/11 16:31		1
1,2,4-Trichlorobenzene	120-82-1	U	0.606	0.158	mg/kg	02/24/11 16:31	U	1
2,4,6-Trichlorophenol	88-06-2	U	2.02	0.170	mg/kg	02/24/11 16:31	U	1
2,4,5-Trichlorophenol	95-95-4	U	2.02	0.164	mg/kg	02/24/11 16:31	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.606	0.206	mg/kg	02/24/11 16:31	U	1
N-Nitrosodimethylamine	62-75-9	U	2.02	0.261	mg/kg	02/24/11 16:31	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.606	0.206	mg/kg	02/24/11 16:31	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.606	0.121	mg/kg	02/24/11 16:31	U	1

Analytical Method: Total Cyanide (Colorimetric, Automated UV) by SW-846 9012									
Analyst: DAH		Tech: DAH							
Seq Number: 844869									

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	1.19	0.582	0.166	mg/kg	02/23/11 13:21		1

Project: Florida Standard List of Methods

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD Dewatering Cake	Matrix: Soil	% Moisture: 83.5
Lab Sample Id: 407308-001	Date Collected: Feb-18-11 10:10	Basis: Dry Weight
	Date Received: Feb-18-11 18:00	

Analytical Method: PCBs by EPA 8082	Prep Method: SW3550
Analyst: JAN	Date Prep: Feb-23-11 07:00
Seq Number: 845526	Tech: LUA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
PCB-1016	12674-11-2	U	103	12.5	ug/kg	02/25/11 23:34	U	1
PCB-1221	11104-28-2	U	103	76.8	ug/kg	02/25/11 23:34	U	1
PCB-1232	11141-16-5	U	103	27.3	ug/kg	02/25/11 23:34	U	1
PCB-1242	53469-21-9	U	103	29.3	ug/kg	02/25/11 23:34	U	1
PCB-1248	12672-29-6	U	103	53.5	ug/kg	02/25/11 23:34	U	1
PCB-1254	11097-69-1	U	103	17.2	ug/kg	02/25/11 23:34	U	1
PCB-1260	11096-82-5	U	103	16.2	ug/kg	02/25/11 23:34	U	1

Analytical Method: Organochlorine Pesticides by EPA 8081A	Prep Method: SW3550
Analyst: JGO	Date Prep: Feb-23-11 07:00
Seq Number: 845040	Tech: LUA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	20.0	0.889	ug/kg	02/24/11 03:42	U	1
4,4-DDE	72-55-9	U	20.0	1.02	ug/kg	02/24/11 03:42	U	1
4,4-DDT	50-29-3	U	20.0	2.19	ug/kg	02/24/11 03:42	UJ2	1
Aldrin	309-00-2	U	10.3	0.798	ug/kg	02/24/11 03:42	U	1
Alpha-BHC	319-84-6	U	10.3	2.05	ug/kg	02/24/11 03:42	UJ2	1
Alpha-Chlordane	5103-71-9	U	10.3	1.15	ug/kg	02/24/11 03:42	U	1
Beta-BHC	319-85-7	U	10.3	1.36	ug/kg	02/24/11 03:42	UJ2	1
Chlordane	57-74-9	U	606	38.2	ug/kg	02/24/11 03:42	U	1
Delta-BHC	319-86-8	U	10.3	2.66	ug/kg	02/24/11 03:42	UJ2	1
Dieldrin	60-57-1	U	10.3	0.909	ug/kg	02/24/11 03:42	UJ2	1
Endosulfan I	959-98-8	U	20.0	1.02	ug/kg	02/24/11 03:42	UJ2	1
Endosulfan II	33213-65-9	U	20.0	1.87	ug/kg	02/24/11 03:42	UJ2	1
Endosulfan Sulfate	1031-07-8	U	20.0	0.333	ug/kg	02/24/11 03:42	UJ2	1
Endrin	72-20-8	U	20.0	1.04	ug/kg	02/24/11 03:42	UJ2	1
Endrin Aldehyde	7421-93-4	U	20.0	0.990	ug/kg	02/24/11 03:42	U	1
Endrin Ketone	53494-70-5	U	10.3	0.848	ug/kg	02/24/11 03:42	UJ2	1
Gamma-BHC (Lindane)	8-89-9	U	10.3	3.16	ug/kg	02/24/11 03:42	U	1
Gamma-Chlordane	5566-34-7	U	10.3	0.818	ug/kg	02/24/11 03:42	UJ2	1
Heptachlor	76-44-8	U	10.3	1.27	ug/kg	02/24/11 03:42	U	1
Heptachlor Epoxide	1024-57-3	U	10.3	1.18	ug/kg	02/24/11 03:42	U	1
Methoxychlor	72-43-5	U	10.3	1.90	ug/kg	02/24/11 03:42	UJ2	1
Toxaphene	8001-35-2	U	606	56.7	ug/kg	02/24/11 03:42	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD Dewatering Cake	Matrix: Soil	% Moisture: 83.5
Lab Sample Id: 407308-001	Date Collected: Feb-18-11 10:10	Basis: Dry Weight
	Date Received: Feb-18-11 18:00	

Analytical Method: VOAs by SW-846 8260B	Prep Method: SW5035
Analyst: ROL	Date Prep: Feb-23-11 20:19
Seq Number: 845082	Tech: JTA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1,2-Tetrachloroethane	630-20-6	U	0.0606	0.00812	mg/kg	02/24/11 03:04	U	1
1,1,1-Trichloroethane	71-55-6	U	0.0303	0.0168	mg/kg	02/24/11 03:04	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0303	0.0131	mg/kg	02/24/11 03:04	U	1
1,1,2-Trichloroethane	79-00-5	U	0.0606	0.00845	mg/kg	02/24/11 03:04	U	1
1,1-Dichloroethane	75-34-3	U	0.0606	0.00372	mg/kg	02/24/11 03:04	U	1
1,1-Dichloroethene	75-35-4	U	0.0909	0.0134	mg/kg	02/24/11 03:04	U	1
1,1-Dichloropropene	563-58-6	U	0.0303	0.00909	mg/kg	02/24/11 03:04	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.152	0.0164	mg/kg	02/24/11 03:04	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0606	0.00724	mg/kg	02/24/11 03:04	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.0909	0.00612	mg/kg	02/24/11 03:04	U	1
1,2,4-Trimethylbenzene	95-63-6	0.0373	0.121	0.00398	mg/kg	02/24/11 03:04	I	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	0.152	0.0133	mg/kg	02/24/11 03:04	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0606	0.00512	mg/kg	02/24/11 03:04	U	1
1,2-Dichloroethane	107-06-2	U	0.0606	0.0156	mg/kg	02/24/11 03:04	U	1
1,2-Dichloropropane	78-87-5	U	0.0606	0.00362	mg/kg	02/24/11 03:04	U	1
1,3,5-Trimethylbenzene	108-67-8	0.0185	0.0303	0.00636	mg/kg	02/24/11 03:04	I	1
1,3-Dichlorobenzene	541-73-1	U	0.0606	0.00714	mg/kg	02/24/11 03:04	U	1
1,3-Dichloropropane	142-28-9	U	0.121	0.00429	mg/kg	02/24/11 03:04	U	1
1,4-Dichlorobenzene	106-46-7	0.792	0.0606	0.00688	mg/kg	02/24/11 03:04		1
2,2-Dichloropropane	594-20-7	U	0.0606	0.00728	mg/kg	02/24/11 03:04	U	1
Methyl ethyl ketone	78-93-3	0.278	0.636	0.156	mg/kg	02/24/11 03:04	I	1
2-Chloroethyl Vinyl Ether	110-75-8	U	0.303	0.0120	mg/kg	02/24/11 03:04	U	1
2-Chlorotoluene	95-49-8	U	0.0606	0.00559	mg/kg	02/24/11 03:04	U	1
2-Hexanone	591-78-6	U	0.273	0.0272	mg/kg	02/24/11 03:04	U	1
4-Chlorotoluene	106-43-4	U	0.0303	0.00435	mg/kg	02/24/11 03:04	U	1
4-Methyl-2-Pentanone	108-10-1	U	0.212	0.103	mg/kg	02/24/11 03:04	U	1
Acetone	67-64-1	1.84	0.606	0.142	mg/kg	02/24/11 03:04		1
Acrolein	107-02-8	U	0.303	0.0384	mg/kg	02/24/11 03:04	U	1
Acrylonitrile	107-13-1	U	0.273	0.0359	mg/kg	02/24/11 03:04	U	1
Benzene	71-43-2	U	0.0303	0.0139	mg/kg	02/24/11 03:04	U	1
Bromobenzene	108-86-1	U	0.0606	0.00706	mg/kg	02/24/11 03:04	U	1
Bromochloromethane	74-97-5	U	0.0606	0.00602	mg/kg	02/24/11 03:04	U	1
Bromodichloromethane	75-27-4	U	0.0606	0.00350	mg/kg	02/24/11 03:04	U	1
Bromoform	75-25-2	U	0.0303	0.0158	mg/kg	02/24/11 03:04	U	1
Methyl bromide	74-83-9	U	0.152	0.0146	mg/kg	02/24/11 03:04	U	1
Carbon Disulfide	75-15-0	U	0.303	0.0715	mg/kg	02/24/11 03:04	U	1
Carbon Tetrachloride	56-23-5	U	0.0606	0.0106	mg/kg	02/24/11 03:04	U	1
Chlorobenzene	108-90-7	U	0.0606	0.00387	mg/kg	02/24/11 03:04	U	1
Chloroethane	75-00-3	U	0.0606	0.0156	mg/kg	02/24/11 03:04	U	1
Chloroform	67-66-3	U	0.0303	0.0163	mg/kg	02/24/11 03:04	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD Dewatering Cake	Matrix: Soil	% Moisture: 83.5
Lab Sample Id: 407308-001	Date Collected: Feb-18-11 10:10	Basis: Dry Weight
	Date Received: Feb-18-11 18:00	

Analytical Method: VOAs by SW-846 8260B	Prep Method: SW5035
Analyst: ROL	Date Prep: Feb-23-11 20:19
Seq Number: 845082	Tech: JTA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methyl Chloride	74-87-3	U	0.0606	0.00694	mg/kg	02/24/11 03:04	U	1
cis-1,2-Dichloroethylene	156-59-2	U	0.0303	0.00537	mg/kg	02/24/11 03:04	U	1
cis-1,3-Dichloropropene	10061-01-5	U	0.0606	0.00820	mg/kg	02/24/11 03:04	U	1
Dibromochloromethane	124-48-1	U	0.121	0.00930	mg/kg	02/24/11 03:04	U	1
Methylene bromide	74-95-3	U	0.0606	0.0107	mg/kg	02/24/11 03:04	U	1
Dichlorodifluoromethane	75-71-8	U	0.0606	0.00810	mg/kg	02/24/11 03:04	U	1
Ethylbenzene	100-41-4	0.0355	0.0303	0.00372	mg/kg	02/24/11 03:04		1
Hexachlorobutadiene	87-68-3	U	0.152	0.00974	mg/kg	02/24/11 03:04	U	1
Methyl iodide	74-88-4	U	0.333	0.00841	mg/kg	02/24/11 03:04	U	1
Isopropylbenzene	98-82-8	U	0.0303	0.00384	mg/kg	02/24/11 03:04	U	1
m,p-Xylenes	179601-23-1	U	0.0909	0.00729	mg/kg	02/24/11 03:04	U	1
Methylene Chloride	75-09-2	U	0.121	0.0117	mg/kg	02/24/11 03:04	U	1
MTBE	1634-04-4	U	0.0303	0.00484	mg/kg	02/24/11 03:04	U	1
Naphthalene	91-20-3	U	0.242	0.00859	mg/kg	02/24/11 03:04	U	1
n-Butylbenzene	104-51-8	U	0.0303	0.00453	mg/kg	02/24/11 03:04	U	1
n-Propylbenzene	103-65-1	U	0.0606	0.00336	mg/kg	02/24/11 03:04	U	1
o-Xylene	95-47-6	0.0164	0.0303	0.00482	mg/kg	02/24/11 03:04	I	1
p-Cymene (p-Isopropyltoluene)	99-87-6	1.32	0.0303	0.00693	mg/kg	02/24/11 03:04		1
Sec-Butylbenzene	135-98-8	0.0262	0.0303	0.00605	mg/kg	02/24/11 03:04	I	1
Styrene	100-42-5	U	0.0303	0.00680	mg/kg	02/24/11 03:04	U	1
tert-Butylbenzene	98-06-6	U	0.0303	0.00453	mg/kg	02/24/11 03:04	U	1
Tetrachloroethylene	127-18-4	U	0.0606	0.0172	mg/kg	02/24/11 03:04	U	1
Toluene	108-88-3	0.121	0.0606	0.0275	mg/kg	02/24/11 03:04		1
trans-1,2-dichloroethylene	156-60-5	U	0.0606	0.0156	mg/kg	02/24/11 03:04	U	1
trans-1,3-dichloropropene	10061-02-6	U	0.0606	0.00484	mg/kg	02/24/11 03:04	U	1
Trichloroethylene	79-01-6	U	0.0606	0.0153	mg/kg	02/24/11 03:04	U	1
Trichlorofluoromethane	75-69-4	U	0.0606	0.00403	mg/kg	02/24/11 03:04	U	1
Vinyl Acetate	108-05-4	U	0.0909	0.0105	mg/kg	02/24/11 03:04	U	1
Vinyl Chloride	75-01-4	U	0.0303	0.00835	mg/kg	02/24/11 03:04	U	1

Certificate of Analytical Results 407308



**Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS**

Sample Id: SD Dewatering Cake	Matrix: Soil	% Moisture:
Lab Sample Id: 407308-001	Date Collected: Feb-18-11 10:10	Basis: Wet Weight
	Date Received: Feb-18-11 18:00	

Analytical Method: Percent Moisture	Analyst: ARM	Tech: ARM
	Seq Number: 844733	

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	83.5	1.00	1.00	%	02/22/11 09:48		1

Analytical Method: Paint Filter Liquids Test by SW-9095	Analyst: RGF	Tech: RGF
	Seq Number: 845230	

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Paint Filter	PAIFILTER	Pass				02/25/11 09:00	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD Dewatering Cake	Matrix: Soil	% Moisture:
Lab Sample Id: 407308-001	Date Collected: Feb-18-11 10:10	
	Date Received: Feb-18-11 18:00	

Analytical Method: TCLP Herbicides by SW-846 1311/8151A	Prep Method: SW8151A_EXT
Analyst: LER	Date Prep: Feb-28-11 14:00
Seq Number: 846051	Tech: MBA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
2,4,5-TP (Silvex)	93-72-1	U	0.100	0.0246	mg/L	03/02/11 18:46	UJ2	1
2,4-D	94-75-7	U	0.100	0.0203	mg/L	03/02/11 18:46	UJ2	1

Analytical Method: TCLP Mercury by SW1311/7470A	Prep Method: SW7470P
Analyst: SOA	Date Prep: Feb-24-11 12:15
Seq Number: 845113	Tech: SOA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	U	0.000200	0.0000593	mg/L	02/24/11 15:14	U	1

Analytical Method: TCLP Metals by SW846-1311/6010B	Prep Method: SW3010A
Analyst: IST	Date Prep: Feb-24-11 14:00
Seq Number: 846788	Tech: TEM

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	0.0253	0.0100	0.00450	mg/L	03/02/11 07:02	V	1
Barium	7440-39-3	0.0343	0.0100	0.00210	mg/L	03/02/11 07:02	V	1
Cadmium	7440-43-9	U	0.00500	0.00110	mg/L	03/02/11 07:02	U	1
Chromium	7440-47-3	0.00307	0.00500	0.00260	mg/L	03/02/11 07:02	VI	1
Lead	7439-92-1	U	0.0100	0.00470	mg/L	03/02/11 07:02	U	1
Selenium	7782-49-2	U	0.0300	0.00670	mg/L	03/02/11 07:02	U	1
Silver	7440-22-4	U	0.0200	0.00540	mg/L	03/02/11 07:02	U	1

Analytical Method: TCLP SVOCs by SW846 8270C	Prep Method: SW3510C
Analyst: BAT	Date Prep: Feb-28-11 08:30
Seq Number: 845636	Tech: HEA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,4-Dichlorobenzene	106-46-7	U	0.0200	0.00140	mg/L	02/28/11 16:28	U	1
2,4,5-Trichlorophenol	95-95-4	U	0.0200	0.00190	mg/L	02/28/11 16:28	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.00500	0.00140	mg/L	02/28/11 16:28	U	1
2,4-Dinitrotoluene	121-14-2	U	0.00225	0.00160	mg/L	02/28/11 16:28	U	1
2-methylphenol	95-48-7	U	0.0200	0.00110	mg/L	02/28/11 16:28	U	1
3&4-Methylphenol		U	0.0200	0.00115	mg/L	02/28/11 16:28	U	1
Hexachlorobenzene	118-74-1	U	0.00500	0.00160	mg/L	02/28/11 16:28	U	1
Hexachlorobutadiene	87-68-3	U	0.0200	0.00230	mg/L	02/28/11 16:28	U	1
Hexachloroethane	67-72-1	U	0.0200	0.00180	mg/L	02/28/11 16:28	U	1
Nitrobenzene	98-95-3	U	0.0100	0.00160	mg/L	02/28/11 16:28	U	1
Pentachlorophenol	87-86-5	U	0.0500	0.00350	mg/L	02/28/11 16:28	U	1
Pyridine	110-86-1	U	0.0500	0.0445	mg/L	02/28/11 16:28	U	1

Certificate of Analytical Results 407308



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD Dewatering Cake	Matrix: Soil	% Moisture:
Lab Sample Id: 407308-001	Date Collected: Feb-18-11 10:10	
	Date Received: Feb-18-11 18:00	

Analytical Method: TCLP Pesticides by SW8081A	Prep Method: SW3510C
Analyst: JGO	Date Prep: Feb-24-11 13:00
Seq Number: 845251	Tech: HEA

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Heptachlor Epoxide	1024-57-3	U	0.0125	0.000835	mg/L	02/25/11 02:19	U	1
Chlordane	57-74-9	U	0.250	0.0158	mg/L	02/25/11 02:19	U	1
Endrin	72-20-8	U	0.0250	0.00179	mg/L	02/25/11 02:19	U	1
Gamma-BHC (Lindane)	8-89-9	U	0.0125	0.00141	mg/L	02/25/11 02:19	U	1
Heptachlor	76-44-8	U	0.0125	0.00288	mg/L	02/25/11 02:19	U	1
Methoxychlor	72-43-5	U	0.0125	0.00365	mg/L	02/25/11 02:19	U	1
Toxaphene	8001-35-2	U	0.750	0.118	mg/L	02/25/11 02:19	U	1

Analytical Method: TCLP VOAs by EPA 8260B	Prep Method: SW5030B
Analyst: ROL	Date Prep: Feb-21-11 16:00
Seq Number: 845078	Tech: ROL

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	0.0500	0.0125	mg/L	02/23/11 16:34	U	50
2-Butanone	78-93-3	U	0.500	0.0843	mg/L	02/23/11 16:34	UJ	50
Carbon Tetrachloride	56-23-5	U	0.0500	0.0114	mg/L	02/23/11 16:34	U	50
Chlorobenzene	108-90-7	U	0.0500	0.00882	mg/L	02/23/11 16:34	U	50
Chloroform	67-66-3	0.00831	0.0500	0.00609	mg/L	02/23/11 16:34	VI	50
1,2-Dichloroethane	107-06-2	U	0.0500	0.00605	mg/L	02/23/11 16:34	U	50
1,1-Dichloroethene	75-35-4	U	0.0500	0.00694	mg/L	02/23/11 16:34	U	50
Tetrachloroethylene	127-18-4	U	0.0500	0.00489	mg/L	02/23/11 16:34	U	50
Trichloroethene	79-01-6	U	0.0500	0.0179	mg/L	02/23/11 16:34	U	50
Vinyl Chloride	75-01-4	U	0.0500	0.00960	mg/L	02/23/11 16:34	U	50



Flagging Criteria

FLORIDA Flagging Criteria

- A** Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
- B** Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
- F** When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
- H** Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code:
 - J1: No known quality control criteria exist for the component;
 - J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);
 - J3: The sample matrix interfered with the ability to make any accurate determination;
 - J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).
 - J5: The field calibration verification did not meet calibration acceptance criteria.
 - J6: QC protocol not followed.

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 2505 N. Falkenburg Rd., Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(972) 481-9999	(972) 481-9998
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J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

- K** Off-scale low. Actual value is known to be less than the value given. This code shall be used if:
1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
- L** Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- M** When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.
- N** Presumptive evidence of presence of material. This qualifier shall be used if:
1. The component has been tentatively identified based on mass spectral library search; or
 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
- V** Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

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Flagging Criteria

- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z** Too many colonies were present for accurate counting. Historically, this condition has been reported as "too numerous to count" (TNTC). The "Z" qualifier code shall be reported when the total number of colonies of all types is more than 200 in all dilutions of the sample. When applicable to the observed test results, a numeric value for the colony count for the microorganism tested shall be estimated from the highest dilution factor (smallest sample volume) used for the test and reported with the qualifier code.
- ?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
 - * Not reported due to interference.

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

- D** The sample result was reported from a dilution.
- E** Indicates that extra samples were taken at composite stations.
- R** Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
- !** Data deviate from historically established concentration ranges.
- +** Outside XENCO's scope of NELAC accreditation

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Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 846051

Sample: 596434-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 03/02/11 14:17

SURROGATE RECOVERY STUDY					
TCLP Herbicides by SW-846 1311/8151A	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	485	500	97	46-142	

Lab Batch #: 846051

Sample: 596434-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 03/02/11 14:47

SURROGATE RECOVERY STUDY					
TCLP Herbicides by SW-846 1311/8151A	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	560.000	500	112	46-142	

Lab Batch #: 846051

Sample: 407308-001 S / MS

Batch: 1 Matrix: Soil

Units: ug/L

Date Analyzed: 03/02/11 17:46

SURROGATE RECOVERY STUDY					
TCLP Herbicides by SW-846 1311/8151A	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	705.000	500	141	46-142	

Lab Batch #: 846051

Sample: 407308-001 SD / MSD

Batch: 1 Matrix: Soil

Units: ug/L

Date Analyzed: 03/02/11 18:16

SURROGATE RECOVERY STUDY					
TCLP Herbicides by SW-846 1311/8151A	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	440.000	500	88	46-142	

Lab Batch #: 846051

Sample: 407308-001 / SMP

Batch: 1 Matrix: Soil

Units: ug/L

Date Analyzed: 03/02/11 18:46

SURROGATE RECOVERY STUDY					
TCLP Herbicides by SW-846 1311/8151A	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	305	500	61	46-142	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 845040

Sample: 596116-1-BLK / BLK

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/24/11 01:24	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides by EPA 8081A						
Analytes						
Decachlorobiphenyl		148	200	74	11-170	
Tetrachloro-m-xylene		127	200	64	15-157	

Lab Batch #: 845040

Sample: 596116-1-BKS / BKS

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/24/11 02:03	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides by EPA 8081A						
Analytes						
Decachlorobiphenyl		116.000	200	58	11-170	
Tetrachloro-m-xylene		115.000	200	58	15-157	

Lab Batch #: 845040

Sample: 407308-001 S / MS

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/24/11 03:02	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides by EPA 8081A						
Analytes						
Decachlorobiphenyl		62.500	200	31	11-170	
Tetrachloro-m-xylene		60.600	200	22	15-157	

Lab Batch #: 845040

Sample: 407308-001 SD / MSD

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/24/11 03:22	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides by EPA 8081A						
Analytes						
Decachlorobiphenyl		94.700	200	47	11-170	
Tetrachloro-m-xylene		86.200	200	33	15-157	

Lab Batch #: 845040

Sample: 407308-001 / SMP

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/24/11 03:42	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Organochlorine Pesticides by EPA 8081A						
Analytes						
Decachlorobiphenyl		63.5	200	32	11-170	
Tetrachloro-m-xylene		62.3	200	31	15-157	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 845526

Sample: 596119-1-BLK / BLK

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/25/11 15:17	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
PCBs by EPA 8082						
Analytes						
Tetrachloro-m-xylene		25.5	33.3	77	37-124	
Decachlorobiphenyl		31.5	33.3	95	39-125	

Lab Batch #: 845526

Sample: 596119-1-BKS / BKS

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/25/11 15:44	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
PCBs by EPA 8082						
Analytes						
Tetrachloro-m-xylene		25.000	33.3	75	37-124	
Decachlorobiphenyl		29.700	33.3	89	39-125	

Lab Batch #: 845526

Sample: 407122-002 S / MS

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/25/11 16:10	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
PCBs by EPA 8082						
Analytes						
Tetrachloro-m-xylene		21.200	33.3	64	37-124	
Decachlorobiphenyl		26.800	33.3	80	39-125	

Lab Batch #: 845526

Sample: 407122-002 SD / MSD

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/25/11 16:36	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
PCBs by EPA 8082						
Analytes						
Tetrachloro-m-xylene		20.000	33.3	60	37-124	
Decachlorobiphenyl		23.200	33.3	70	39-125	

Lab Batch #: 845526

Sample: 407308-001 / SMP

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: ug/kg	Date Analyzed: 02/25/11 23:34	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
PCBs by EPA 8082						
Analytes						
Tetrachloro-m-xylene		15.7	33.3	47	37-124	
Decachlorobiphenyl		18.5	33.3	56	39-125	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 845292

Sample: 596123-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/24/11 14:48

SURROGATE RECOVERY STUDY

SVOCs by SW846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.47	1.67	88	64-104	
2-Fluorophenol	2.99	3.33	90	60-102	
Nitrobenzene-d5	1.50	1.67	90	63-105	
Phenol-d6	3.06	3.33	92	60-102	
Terphenyl-D14	1.57	1.67	94	57-122	
2,4,6-Tribromophenol	2.74	3.33	82	58-119	

Lab Batch #: 845292

Sample: 596123-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/24/11 15:05

SURROGATE RECOVERY STUDY

SVOCs by SW846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.35	1.67	81	64-104	
2-Fluorophenol	2.72	3.33	82	60-102	
Nitrobenzene-d5	1.29	1.67	77	63-105	
Phenol-d6	2.86	3.33	86	60-102	
Terphenyl-D14	1.43	1.67	86	57-122	
2,4,6-Tribromophenol	2.83	3.33	85	58-119	

Lab Batch #: 845292

Sample: 407308-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/24/11 16:31

SURROGATE RECOVERY STUDY

SVOCs by SW846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.09	1.67	65	64-104	
2-Fluorophenol	1.94	3.33	58	60-102	J
Nitrobenzene-d5	1.04	1.67	62	63-105	J
Phenol-d6	2.12	3.33	64	60-102	
Terphenyl-D14	1.12	1.67	67	57-122	
2,4,6-Tribromophenol	2.25	3.33	68	58-119	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 845292

Sample: 407426-001 S / MS

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 02/24/11 20:50		SURROGATE RECOVERY STUDY		
SVOCs by SW846 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		1.26	1.67	75	64-104	
2-Fluorophenol		2.70	3.33	81	60-102	
Nitrobenzene-d5		1.31	1.67	78	63-105	
Phenol-d6		2.76	3.33	83	60-102	
Terphenyl-D14		1.34	1.67	80	57-122	
2,4,6-Tribromophenol		3.02	3.33	91	58-119	

Lab Batch #: 845292

Sample: 407426-001 SD / MSD

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 02/24/11 21:07		SURROGATE RECOVERY STUDY		
SVOCs by SW846 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		1.35	1.67	81	64-104	
2-Fluorophenol		2.76	3.33	83	60-102	
Nitrobenzene-d5		1.37	1.67	82	63-105	
Phenol-d6		2.83	3.33	85	60-102	
Terphenyl-D14		1.41	1.67	84	57-122	
2,4,6-Tribromophenol		3.17	3.33	95	58-119	

Lab Batch #: 845251

Sample: 596232-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L		Date Analyzed: 02/25/11 00:13		SURROGATE RECOVERY STUDY		
TCLP Pesticides by SW8081A		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
Decachlorobiphenyl		127	100	127	11-170	
Tetrachloro-m-xylene		133	100	133	15-157	

Lab Batch #: 845251

Sample: 596232-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L		Date Analyzed: 02/25/11 00:34		SURROGATE RECOVERY STUDY		
TCLP Pesticides by SW8081A		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
Decachlorobiphenyl		126.000	100	126	11-170	
Tetrachloro-m-xylene		146.000	100	146	15-157	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 845251

Sample: 407144-001 S / MS

Batch: 1 Matrix: Sludge

Units: ug/L

Date Analyzed: 02/25/11 00:55

SURROGATE RECOVERY STUDY

TCLP Pesticides by SW8081A	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	143.000	100	143	11-170	
Tetrachloro-m-xylene	137.000	100	137	15-157	

Lab Batch #: 845251

Sample: 407144-001 SD / MSD

Batch: 1 Matrix: Sludge

Units: ug/L

Date Analyzed: 02/25/11 01:16

SURROGATE RECOVERY STUDY

TCLP Pesticides by SW8081A	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	150.000	100	150	11-170	
Tetrachloro-m-xylene	150.000	100	150	15-157	

Lab Batch #: 845251

Sample: 407308-001 / SMP

Batch: 1 Matrix: Soil

Units: ug/L

Date Analyzed: 02/25/11 02:19

SURROGATE RECOVERY STUDY

TCLP Pesticides by SW8081A	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	149	100	149	11-170	
Tetrachloro-m-xylene	150	100	150	15-157	

Lab Batch #: 845636

Sample: 596536-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/28/11 15:36

SURROGATE RECOVERY STUDY

TCLP SVOCs by SW846 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.187	0.250	75	19-126	
2-Fluorophenol	0.239	0.500	48	28-62	
Nitrobenzene-d5	0.200	0.250	80	10-130	
Phenol-d6	0.152	0.500	30	10-59	
Terphenyl-D14	0.238	0.250	95	27-133	
2,4,6-Tribromophenol	0.483	0.500	97	48-132	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 845636

Sample: 596536-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/28/11 16:10

SURROGATE RECOVERY STUDY

TCLP SVOCs by SW846 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.184	0.250	74	19-126	
2-Fluorophenol	0.242	0.500	48	28-62	
Nitrobenzene-d5	0.199	0.250	80	10-130	
Phenol-d6	0.171	0.500	34	10-59	
Terphenyl-D14	0.213	0.250	85	27-133	
2,4,6-Tribromophenol	0.428	0.500	86	48-132	

Lab Batch #: 845636

Sample: 407308-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/L

Date Analyzed: 02/28/11 16:28

SURROGATE RECOVERY STUDY

TCLP SVOCs by SW846 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.177	0.250	71	19-126	
2-Fluorophenol	0.218	0.500	44	28-62	
Nitrobenzene-d5	0.194	0.250	78	10-130	
Phenol-d6	0.144	0.500	29	10-59	
Terphenyl-D14	0.222	0.250	89	27-133	
2,4,6-Tribromophenol	0.425	0.500	85	48-132	

Lab Batch #: 845636

Sample: 407308-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/L

Date Analyzed: 02/28/11 16:45

SURROGATE RECOVERY STUDY

TCLP SVOCs by SW846 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.150	0.250	60	19-126	
2-Fluorophenol	0.207	0.500	41	28-62	
Nitrobenzene-d5	0.167	0.250	67	10-130	
Phenol-d6	0.145	0.500	29	10-59	
Terphenyl-D14	0.189	0.250	76	27-133	
2,4,6-Tribromophenol	0.386	0.500	77	48-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 845636

Sample: 407308-001 SD / MSD

Batch: 1 **Matrix:** Soil

Units: mg/L

Date Analyzed: 02/28/11 17:02

SURROGATE RECOVERY STUDY

TCLP SVOCs by SW846 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.162	0.250	65	19-126	
2-Fluorophenol	0.196	0.500	39	28-62	
Nitrobenzene-d5	0.177	0.250	71	10-130	
Phenol-d6	0.134	0.500	27	10-59	
Terphenyl-D14	0.187	0.250	75	27-133	
2,4,6-Tribromophenol	0.402	0.500	80	48-132	

Lab Batch #: 845078

Sample: 596198-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/23/11 10:22

SURROGATE RECOVERY STUDY

TCLP VOAs by EPA 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	32	30	107	83-118	
Dibromofluoromethane	30	30	100	76-133	
Toluene-D8	30	30	100	86-108	

Lab Batch #: 845078

Sample: 596198-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: ug/L

Date Analyzed: 02/23/11 12:00

SURROGATE RECOVERY STUDY

TCLP VOAs by EPA 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	32	30	107	83-118	
Dibromofluoromethane	30	30	100	76-133	
Toluene-D8	30	30	100	86-108	

Lab Batch #: 845078

Sample: 407308-001 / SMP

Batch: 1 **Matrix:** Soil

Units: ug/L

Date Analyzed: 02/23/11 16:34

SURROGATE RECOVERY STUDY

TCLP VOAs by EPA 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	31	30	103	83-118	
Dibromofluoromethane	30	30	100	76-133	
Toluene-D8	31	30	103	86-108	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 845078

Sample: 407144-001 S / MS

Batch: 1 Matrix: Sludge

Units: ug/L

Date Analyzed: 02/23/11 18:09

SURROGATE RECOVERY STUDY

TCLP VOAs by EPA 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	30	30	100	83-118	
Dibromofluoromethane	30	30	100	76-133	
Toluene-D8	30	30	100	86-108	

Lab Batch #: 845078

Sample: 407144-001 SD / MSD

Batch: 1 Matrix: Sludge

Units: ug/L

Date Analyzed: 02/23/11 18:33

SURROGATE RECOVERY STUDY

TCLP VOAs by EPA 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	30	30	100	83-118	
Dibromofluoromethane	29	30	97	76-133	
Toluene-D8	30	30	100	86-108	

Lab Batch #: 845082

Sample: 596348-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/23/11 20:30

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0313	0.0300	104	78-137	
Dibromofluoromethane	0.0305	0.0300	102	81-115	
Toluene-D8	0.0303	0.0300	101	86-117	

Lab Batch #: 845082

Sample: 407345-015 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/23/11 21:01

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0328	0.0300	109	78-137	
Dibromofluoromethane	0.0302	0.0300	101	81-115	
Toluene-D8	0.0298	0.0300	99	86-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: ANNUAL PRIORITY POLLUTANTS

Work Orders : 407308,

Project ID:

Lab Batch #: 845082

Sample: 407345-015 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 02/23/11 21:25		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0337	0.0300	112	78-137	
Dibromofluoromethane		0.0296	0.0300	99	81-115	
Toluene-D8		0.0300	0.0300	100	86-117	

Lab Batch #: 845082

Sample: 596348-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 02/23/11 22:38		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0306	0.0300	102	78-137	
Dibromofluoromethane		0.0296	0.0300	99	81-115	
Toluene-D8		0.0293	0.0300	98	86-117	

Lab Batch #: 845082

Sample: 407308-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 02/24/11 03:04		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0447	0.0300	149	78-137	J
Dibromofluoromethane		0.0252	0.0300	84	81-115	
Toluene-D8		0.0276	0.0300	92	86-117	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596107-1-BLK	Matrix: SOLID
Lab Sample Id: 596107-1-BLK	

Analytical Method: Mercury by SW-846 7471A	Prep Method: SW7471P
Date Analyzed: Feb-22-11 10:47	Analyst: SOA
Seq Number: 844702	Date Prep: Feb-22-11 09:00
	Tech: SOA

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0333	0.0106	mg/kg	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596116-1-BLK	Matrix: SOLID
Lab Sample Id: 596116-1-BLK	

Analytical Method: Organochlorine Pesticides by EPA 8081A	Prep Method: SW3550
Date Analyzed: Feb-24-11 01:24	Analyst: JGO
Seq Number: 845040	Date Prep: Feb-23-11 07:00
	Tech: LUA

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
4,4-DDD	72-54-8	U	3.30	0.147	ug/kg	U	1
4,4-DDE	72-55-9	U	3.30	0.168	ug/kg	U	1
4,4-DDT	50-29-3	U	3.30	0.362	ug/kg	U	1
Aldrin	309-00-2	U	1.70	0.132	ug/kg	U	1
Alpha-BHC	319-84-6	U	1.70	0.338	ug/kg	U	1
Alpha-Chlordane	5103-71-9	U	1.70	0.190	ug/kg	U	1
Beta-BHC	319-85-7	U	1.70	0.225	ug/kg	U	1
Chlordane	57-74-9	U	100	6.31	ug/kg	U	1
Delta-BHC	319-86-8	U	1.70	0.438	ug/kg	U	1
Dieldrin	60-57-1	U	1.70	0.150	ug/kg	U	1
Endosulfan I	959-98-8	U	3.30	0.168	ug/kg	U	1
Endosulfan II	33213-65-9	U	3.30	0.308	ug/kg	U	1
Endosulfan Sulfate	1031-07-8	U	3.30	0.0550	ug/kg	U	1
Endrin	72-20-8	U	3.30	0.172	ug/kg	U	1
Endrin Aldehyde	7421-93-4	U	3.30	0.163	ug/kg	U	1
Endrin Ketone	53494-70-5	U	1.70	0.140	ug/kg	U	1
Gamma-BHC (Lindane)	8-89-9	U	1.70	0.522	ug/kg	U	1
Gamma-Chlordane	5566-34-7	U	1.70	0.135	ug/kg	U	1
Heptachlor	76-44-8	U	1.70	0.210	ug/kg	U	1
Heptachlor Epoxide	1024-57-3	U	1.70	0.195	ug/kg	U	1
Methoxychlor	72-43-5	U	1.70	0.313	ug/kg	U	1
Toxaphene	8001-35-2	U	100	9.36	ug/kg	U	1



Blank Summary **407308**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596119-1-BLK **Matrix: SOLID**
Lab Sample Id: 596119-1-BLK

Analytical Method: PCBs by EPA 8082 **Prep Method: SW3550**
Date Analyzed: Feb-25-11 15:17 **Analyst: JAN** **Date Prep: Feb-21-11 15:00** **Tech: LUA**
Seq Number: 845526

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
PCB-1016	12674-11-2	U	17.0	2.07	ug/kg	U	1
PCB-1221	11104-28-2	U	17.0	12.7	ug/kg	U	1
PCB-1232	11141-16-5	U	17.0	4.50	ug/kg	U	1
PCB-1242	53469-21-9	U	17.0	4.83	ug/kg	U	1
PCB-1248	12672-29-6	U	17.0	8.83	ug/kg	U	1
PCB-1254	11097-69-1	U	17.0	2.83	ug/kg	U	1
PCB-1260	11096-82-5	U	17.0	2.67	ug/kg	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: **596123-1-BLK** Matrix: **SOLID**
Lab Sample Id: **596123-1-BLK**

Analytical Method: **SVOCs by SW846 8270C** Prep Method: **SW3550**
Date Analyzed: Feb-24-11 14:48 Analyst: **JEZ** Date Prep: Feb-24-11 07:00 Tech: **LUA**
Seq Number: **845292**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Acenaphthene	83-32-9	U	0.100	0.0220	mg/kg	U	1
Acenaphthylene	208-96-8	U	0.100	0.0300	mg/kg	U	1
Aniline (Phenylamine, Aminobenzene)	62-53-3	U	0.333	0.0310	mg/kg	U	1
Anthracene	120-12-7	U	0.100	0.0350	mg/kg	U	1
Benzo(a)anthracene	56-55-3	U	0.100	0.0280	mg/kg	U	1
Benzo(a)pyrene	50-32-8	U	0.0660	0.0250	mg/kg	U	1
Benzo(b)fluoranthene	205-99-2	U	0.100	0.0200	mg/kg	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.100	0.0270	mg/kg	U	1
Benzo(k)fluoranthene	207-08-9	U	0.100	0.0330	mg/kg	U	1
Benzoic Acid	65-85-0	U	1.00	0.0230	mg/kg	U	1
Benzyl Alcohol	100-51-6	U	0.333	0.0210	mg/kg	U	1
Benzyl Butyl Phthalate	85-68-7	U	0.100	0.0190	mg/kg	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.100	0.0270	mg/kg	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.100	0.0310	mg/kg	U	1
bis(2-chloroisopropyl) ether	108-60-1	U	0.100	0.0190	mg/kg	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.333	0.0220	mg/kg	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.100	0.0300	mg/kg	U	1
di-n-Butyl Phthalate	84-74-2	U	0.100	0.0320	mg/kg	U	1
Carbazole	86-74-8	U	0.100	0.0330	mg/kg	U	1
4-chloro-3-methylphenol	59-50-7	U	0.333	0.0250	mg/kg	U	1
4-Chloroaniline	106-47-8	U	0.333	0.0290	mg/kg	U	1
2-Chloronaphthalene	91-58-7	U	0.100	0.0210	mg/kg	U	1
2-Chlorophenol	95-57-8	U	0.333	0.0340	mg/kg	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.100	0.0200	mg/kg	U	1
Chrysene	218-01-9	U	0.100	0.0230	mg/kg	U	1
Dibenz(a,h)anthracene	53-70-3	U	0.0660	0.0270	mg/kg	U	1
Dibenzofuran	132-64-9	U	0.333	0.0280	mg/kg	U	1
1,2-Dichlorobenzene	95-50-1	U	0.100	0.0240	mg/kg	U	1
1,3-Dichlorobenzene	541-73-1	U	0.100	0.0240	mg/kg	U	1
1,4-Dichlorobenzene	106-46-7	U	0.100	0.0190	mg/kg	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.667	0.0190	mg/kg	U	1
2,4-Dichlorophenol	120-83-2	U	0.333	0.0320	mg/kg	U	1
Diethyl Phthalate	84-66-2	U	0.100	0.0310	mg/kg	U	1
Dimethyl Phthalate	131-11-3	U	0.100	0.00300	mg/kg	U	1
2,4-Dimethylphenol	105-67-9	U	0.333	0.0220	mg/kg	U	1
2,4-Dinitrophenol	51-28-5	U	1.00	0.0430	mg/kg	U	1
2,6-Dinitrotoluene	606-20-2	U	0.100	0.0285	mg/kg	U	1
2,4-Dinitrotoluene	121-14-2	U	0.100	0.0290	mg/kg	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.100	0.0270	mg/kg	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	1.00	0.0240	mg/kg	U	1
Fluoranthene	206-44-0	U	0.100	0.0380	mg/kg	U	1
Fluorene	86-73-7	U	0.100	0.0230	mg/kg	U	1

Project: Florida Standard List of Methods

Version: 1.043

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: **596123-1-BLK**
Lab Sample Id: **596123-1-BLK**

Matrix: **SOLID**

Analytical Method: SVOCs by SW846 8270C

Prep Method: SW3550

Date Analyzed: Feb-24-11 14:48

Analyst: JEZ

Date Prep: Feb-24-11 07:00

Tech: LUA

Seq Number: 845292

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Hexachlorobenzene	118-74-1	U	0.100	0.0230	mg/kg	U	1
Hexachlorobutadiene	87-68-3	U	0.100	0.0250	mg/kg	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.100	0.0210	mg/kg	U	1
Hexachloroethane	67-72-1	U	0.100	0.0270	mg/kg	U	1
Isophorone	78-59-1	U	0.100	0.0230	mg/kg	U	1
2-Methylnaphthalene	91-57-6	U	0.200	0.0280	mg/kg	U	1
2-methylphenol	95-48-7	U	0.333	0.0350	mg/kg	U	1
3&4-Methylphenol		U	0.333	0.00340	mg/kg	U	1
1-Methylnaphthalene	90-12-0	U	0.100	0.0270	mg/kg	U	1
Naphthalene	91-20-3	U	0.100	0.0210	mg/kg	U	1
4-Nitroaniline	100-01-6	U	1.00	0.0360	mg/kg	U	1
3-Nitroaniline	99-09-2	U	1.00	0.0190	mg/kg	U	1
2-Nitroaniline	88-74-4	U	1.00	0.0180	mg/kg	U	1
Nitrobenzene	98-95-3	U	0.100	0.0280	mg/kg	U	1
2-Nitrophenol	88-75-5	U	0.333	0.0180	mg/kg	U	1
4-Nitrophenol	100-02-7	U	1.00	0.0330	mg/kg	U	1
n-Octadecane *	593-45-3	U	0.100	0.0107	mg/kg	U	1
di-n-Octyl Phthalate	117-84-0	U	0.100	0.0450	mg/kg	U	1
Pentachlorophenol	87-86-5	U	1.00	0.0250	mg/kg	U	1
Phenanthrene	85-01-8	U	0.100	0.0320	mg/kg	U	1
Phenol	108-95-2	U	0.333	0.0340	mg/kg	U	1
Pyrene	129-00-0	U	0.100	0.0330	mg/kg	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.100	0.0260	mg/kg	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.333	0.0280	mg/kg	U	1
2,4,5-Trichlorophenol	95-95-4	U	0.333	0.0270	mg/kg	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.100	0.0340	mg/kg	U	1
N-Nitrosodimethylamine	62-75-9	U	0.333	0.0430	mg/kg	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.100	0.0340	mg/kg	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.100	0.0200	mg/kg	U	1



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596198-1-BLK	Matrix: WATER
Lab Sample Id: 596198-1-BLK	

Analytical Method: TCLP VOAs by EPA 8260B	Prep Method: SW5030B
Date Analyzed: Feb-23-11 12:00	Analyst: ROL
Seq Number: 845078	Date Prep: Feb-22-11 12:07
	Tech: ROL

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	0.0500	0.0125	mg/L	U	50
2-Butanone	78-93-3	U	0.500	0.0843	mg/L	U	50
Carbon Tetrachloride	56-23-5	U	0.0500	0.0114	mg/L	U	50
Chlorobenzene	108-90-7	U	0.0500	0.00882	mg/L	U	50
Chloroform	67-66-3	0.00973	0.0500	0.00609	mg/L	I	50
1,2-Dichloroethane	107-06-2	U	0.0500	0.00605	mg/L	U	50
1,1-Dichloroethene	75-35-4	U	0.0500	0.00694	mg/L	U	50
Tetrachloroethylene	127-18-4	U	0.0500	0.00489	mg/L	U	50
Trichloroethene	79-01-6	U	0.0500	0.0179	mg/L	U	50
Vinyl Chloride	75-01-4	U	0.0500	0.00960	mg/L	U	50



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596232-1-BLK Matrix: WATER
Lab Sample Id: 596232-1-BLK

Analytical Method: TCLP Pesticides by SW8081A Prep Method: SW3510C
Date Analyzed: Feb-25-11 00:13 Analyst: JGO Date Prep: Feb-24-11 13:00 Tech: HEA
Seq Number: 845251

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Heptachlor Epoxide	1024-57-3	U	0.0125	0.000835	mg/L	U	1
Chlordane	57-74-9	U	0.250	0.0158	mg/L	U	1
Endrin	72-20-8	U	0.0250	0.00179	mg/L	U	1
Gamma-BHC (Lindane)	8-89-9	U	0.0125	0.00141	mg/L	U	1
Heptachlor	76-44-8	U	0.0125	0.00288	mg/L	U	1
Methoxychlor	72-43-5	U	0.0125	0.00365	mg/L	U	1
Toxaphene	8001-35-2	U	0.750	0.118	mg/L	U	1



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596295-1-BLK	Matrix: SOLID
Lab Sample Id: 596295-1-BLK	

Analytical Method: ICP Metals by SW846 6010B	Prep Method: SW3050B		
Date Analyzed: Mar-01-11 04:19	Analyst: IST	Date Prep: Feb-24-11 12:30	Tech: RWA
Seq Number: 846275			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Antimony	7440-36-0	U	2.00	0.430	mg/kg	U	1
Arsenic	7440-38-2	U	1.00	0.500	mg/kg	U	1
Beryllium	7440-41-7	U	0.400	0.110	mg/kg	U	1
Cadmium	7440-43-9	U	0.500	0.170	mg/kg	U	1
Chromium	7440-47-3	U	1.00	0.220	mg/kg	U	1
Copper	7440-50-8	U	2.00	0.430	mg/kg	U	1
Lead	7439-92-1	U	1.00	0.470	mg/kg	U	1
Molybdenum	7439-98-7	U	1.00	0.150	mg/kg	U	1
Nickel	7440-02-0	U	1.00	0.0930	mg/kg	U	1
Selenium	7782-49-2	U	3.00	0.620	mg/kg	U	1
Silver	7440-22-4	U	2.00	0.710	mg/kg	U	1
Thallium	7440-28-0	U	2.00	0.460	mg/kg	U	1
Zinc	7440-66-6	U	3.00	1.50	mg/kg	U	1

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: **596348-1-BLK** Matrix: **SOLID**
Lab Sample Id: **596348-1-BLK**

Analytical Method: **VOAs by SW-846 8260B**

Prep Method: **SW5030B**

Date Analyzed: **Feb-23-11 22:38**

Analyst: **ROL**

Date Prep: **Feb-23-11 20:19**

Tech: **JTA**

Seq Number: **845082**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1,2-Tetrachloroethane	630-20-6	U	0.00200	0.000268	mg/kg	U	1
1,1,1-Trichloroethane	71-55-6	U	0.00100	0.000556	mg/kg	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.00100	0.000433	mg/kg	U	1
1,1,2-Trichloroethane	79-00-5	U	0.00200	0.000279	mg/kg	U	1
1,1-Dichloroethane	75-34-3	U	0.00200	0.000123	mg/kg	U	1
1,1-Dichloroethene	75-35-4	U	0.00300	0.000442	mg/kg	U	1
1,1-Dichloropropene	563-58-6	U	0.00100	0.000300	mg/kg	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.00500	0.000540	mg/kg	U	1
1,2,3-Trichloropropane	96-18-4	U	0.00200	0.000239	mg/kg	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.00300	0.000202	mg/kg	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.00400	0.000131	mg/kg	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	0.00500	0.000438	mg/kg	U	1
1,2-Dichlorobenzene	95-50-1	U	0.00200	0.000169	mg/kg	U	1
1,2-Dichloroethane	107-06-2	U	0.00200	0.000514	mg/kg	U	1
1,2-Dichloropropane	78-87-5	U	0.00200	0.000120	mg/kg	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.00100	0.000210	mg/kg	U	1
1,3-Dichlorobenzene	541-73-1	U	0.00200	0.000236	mg/kg	U	1
1,3-Dichloropropane	142-28-9	U	0.00400	0.000142	mg/kg	U	1
1,4-Dichlorobenzene	106-46-7	U	0.00200	0.000227	mg/kg	U	1
2,2-Dichloropropane	594-20-7	U	0.00200	0.000240	mg/kg	U	1
Methyl ethyl ketone	78-93-3	U	0.0210	0.00515	mg/kg	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	0.0100	0.000396	mg/kg	U	1
2-Chlorotoluene	95-49-8	U	0.00200	0.000185	mg/kg	U	1
2-Hexanone	591-78-6	U	0.00900	0.000898	mg/kg	U	1
4-Chlorotoluene	106-43-4	U	0.00100	0.000143	mg/kg	U	1
4-Methyl-2-Pentanone	108-10-1	U	0.00700	0.00339	mg/kg	U	1
Acetone	67-64-1	U	0.0200	0.00470	mg/kg	U	1
Acrolein	107-02-8	U	0.0100	0.00127	mg/kg	U	1
Acrylonitrile	107-13-1	U	0.00900	0.00119	mg/kg	U	1
Benzene	71-43-2	U	0.00100	0.000460	mg/kg	U	1
Bromobenzene	108-86-1	U	0.00200	0.000233	mg/kg	U	1
Bromochloromethane	74-97-5	U	0.00200	0.000199	mg/kg	U	1
Bromodichloromethane	75-27-4	U	0.00200	0.000115	mg/kg	U	1
Bromoform	75-25-2	U	0.00100	0.000522	mg/kg	U	1
Methyl bromide	74-83-9	U	0.00500	0.000482	mg/kg	U	1
Carbon Disulfide	75-15-0	U	0.0100	0.00236	mg/kg	U	1
Carbon Tetrachloride	56-23-5	U	0.00200	0.000350	mg/kg	U	1
Chlorobenzene	108-90-7	U	0.00200	0.000128	mg/kg	U	1
Chloroethane	75-00-3	U	0.00200	0.000515	mg/kg	U	1
Chloroform	67-66-3	U	0.00100	0.000538	mg/kg	U	1
Methyl Chloride	74-87-3	U	0.00200	0.000229	mg/kg	U	1
cis-1,2-Dichloroethylene	156-59-2	U	0.00100	0.000177	mg/kg	U	1

Project: Florida Standard List of Methods

Version: 1.043



Blank Summary 407308



Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: 596348-1-BLK	Matrix: SOLID
Lab Sample Id: 596348-1-BLK	

Analytical Method: VOAs by SW-846 8260B	Prep Method: SW5030B
Date Analyzed: Feb-23-11 22:38 Analyst: ROL	Date Prep: Feb-23-11 20:19 Tech: JTA
Seq Number: 845082	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	0.00200	0.000271	mg/kg	U	1
Dibromochloromethane	124-48-1	U	0.00400	0.000307	mg/kg	U	1
Methylene bromide	74-95-3	U	0.00200	0.000354	mg/kg	U	1
Dichlorodifluoromethane	75-71-8	U	0.00200	0.000267	mg/kg	U	1
Ethylbenzene	100-41-4	U	0.00100	0.000123	mg/kg	U	1
Hexachlorobutadiene	87-68-3	U	0.00500	0.000321	mg/kg	U	1
Methyl iodide	74-88-4	U	0.0110	0.000278	mg/kg	U	1
Isopropylbenzene	98-82-8	U	0.00100	0.000127	mg/kg	U	1
m,p-Xylenes	179601-23-1	U	0.00300	0.000241	mg/kg	U	1
Methylene Chloride	75-09-2	U	0.00400	0.000385	mg/kg	U	1
MTBE	1634-04-4	U	0.00100	0.000160	mg/kg	U	1
Naphthalene	91-20-3	U	0.00800	0.000283	mg/kg	U	1
n-Butylbenzene	104-51-8	U	0.00100	0.000150	mg/kg	U	1
n-Propylbenzene	103-65-1	U	0.00200	0.000111	mg/kg	U	1
o-Xylene	95-47-6	U	0.00100	0.000159	mg/kg	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	U	0.00100	0.000229	mg/kg	U	1
Sec-Butylbenzene	135-98-8	U	0.00100	0.000200	mg/kg	U	1
Styrene	100-42-5	U	0.00100	0.000224	mg/kg	U	1
tert-Butylbenzene	98-06-6	U	0.00100	0.000150	mg/kg	U	1
Tetrachloroethylene	127-18-4	U	0.00200	0.000567	mg/kg	U	1
Toluene	108-88-3	U	0.00200	0.000909	mg/kg	U	1
trans-1,2-dichloroethylene	156-60-5	U	0.00200	0.000513	mg/kg	U	1
trans-1,3-dichloropropene	10061-02-6	U	0.00200	0.000160	mg/kg	U	1
Trichloroethylene	79-01-6	U	0.00200	0.000505	mg/kg	U	1
Trichlorofluoromethane	75-69-4	U	0.00200	0.000133	mg/kg	U	1
Vinyl Acetate	108-05-4	U	0.00300	0.000348	mg/kg	U	1
Vinyl Chloride	75-01-4	U	0.00100	0.000276	mg/kg	U	1

Project: Florida Standard List of Methods

Version: 1.043



Blank Summary **407308**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596428-1-BLK	Matrix: WATER
Lab Sample Id: 596428-1-BLK	

Analytical Method: TCLP Mercury by SW1311/7470A	Prep Method: SW7470P
Date Analyzed: Feb-24-11 15:05 Analyst: SOA	Date Prep: Feb-24-11 12:15 Tech: SOA
Seq Number: 845113	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.000200	0.0000593	mg/L	U	1

Project: Florida Standard List of Methods

Version: 1.043



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Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596434-1-BLK	Matrix: WATER
Lab Sample Id: 596434-1-BLK	

Analytical Method: TCLP Herbicides by SW-846 1311/8151A	Prep Method: SW8151A_EXT
Date Analyzed: Mar-02-11 14:17	Analyst: LER
Seq Number: 846051	Date Prep: Feb-28-11 14:00
	Tech: MBA

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
2,4,5-TP (Silvex)	93-72-1	U	0.100	0.0246	mg/L	U	1
2,4-D	94-75-7	U	0.100	0.0203	mg/L	U	1



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596472-1-BLK Matrix: WATER
Lab Sample Id: 596472-1-BLK

Analytical Method: TCLP Metals by SW846-1311/6010B Prep Method: SW3010A
Date Analyzed: Mar-02-11 06:50 Analyst: IST Date Prep: Feb-24-11 14:00 Tech: TEM
Seq Number: 846788

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.0172	0.0100	0.00450	mg/L		1
Barium	7440-39-3	0.0576	0.0100	0.00210	mg/L		1
Cadmium	7440-43-9	U	0.00500	0.00110	mg/L	U	1
Chromium	7440-47-3	0.00279	0.00500	0.00260	mg/L	I	1
Lead	7439-92-1	U	0.0100	0.00470	mg/L	U	1
Selenium	7782-49-2	U	0.0300	0.00670	mg/L	U	1
Silver	7440-22-4	U	0.0200	0.00540	mg/L	U	1



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596536-1-BLK	Matrix: WATER
Lab Sample Id: 596536-1-BLK	

Analytical Method: TCLP SVOCs by SW846 8270C	Prep Method: SW3510C
Date Analyzed: Feb-28-11 15:36	Analyst: BAT
Seq Number: 845636	Date Prep: Feb-28-11 08:30
	Tech: HEA

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,4-Dichlorobenzene	106-46-7	U	0.0200	0.00140	mg/L	U	1
2,4,5-Trichlorophenol	95-95-4	U	0.0200	0.00190	mg/L	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.00500	0.00140	mg/L	U	1
2,4-Dinitrotoluene	121-14-2	U	0.00225	0.00160	mg/L	U	1
2-methylphenol	95-48-7	U	0.0200	0.00110	mg/L	U	1
3&4-Methylphenol		U	0.0200	0.00115	mg/L	U	1
Hexachlorobenzene	118-74-1	U	0.00500	0.00160	mg/L	U	1
Hexachlorobutadiene	87-68-3	U	0.0200	0.00230	mg/L	U	1
Hexachloroethane	67-72-1	U	0.0200	0.00180	mg/L	U	1
Nitrobenzene	98-95-3	U	0.0100	0.00160	mg/L	U	1
Pentachlorophenol	87-86-5	U	0.0500	0.00350	mg/L	U	1
Pyridine	110-86-1	U	0.0500	0.0445	mg/L	U	1



Blank Summary **407308**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 844733-1-BLK	Matrix: SOLID
Lab Sample Id: 844733-1-BLK	

Analytical Method: Percent Moisture	Prep Method:
Date Analyzed: Feb-22-11 09:48	Analyst: ARM
Seq Number: 844733	Date Prep:
	Tech: ARM

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Percent Moisture	TMOIST	U	1.00	1.00	%	U	1



Blank Summary **407308**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 844869-1-BLK	Matrix: SOLID
Lab Sample Id: 844869-1-BLK	

Analytical Method: Total Cyanide (Colorimetric, Automated UV) by SW-846 9012		Prep Method:	
Date Analyzed: Feb-23-11 13:11	Analyst: DAH	Date Prep:	Tech: DAH
Seq Number: 844869			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Cyanide, Total	57-12-5	U	0.0960	0.0274	mg/kg	U	1



Blank Summary **407308**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 845193-1-BLK	Matrix: SOLID
Lab Sample Id: 845193-1-BLK	

Analytical Method: Phenolics (Colorimetric, Automated 4-AAP With Distillation)				Prep Method:			
Date Analyzed: Feb-24-11 16:28		Analyst: MID		Date Prep:		Tech: RPO	
Seq Number: 845193							
Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Phenolic		U	0.500	0.210	mg/kg	U	1



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Sample Id: 845230-1-BLK	Matrix: SOLID
Lab Sample Id: 845230-1-BLK	

Analytical Method: Paint Filter Liquids Test by SW-9095		Prep Method:					
Date Analyzed: Feb-25-11 09:00	Analyst: RGF	Date Prep:			Tech: RGF		
Seq Number: 845230							
Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Paint Filter	PAIFILTER	Pass				U	1



QC Summary

407308



Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

Analytical Method: ICP Metals by SW846 6010B

Seq Number: 846275

MB Sample Id: 596295-1-BLK

Matrix: Solid

LCS Sample Id: 596295-1-BKS

Prep Method: SW3050B

Date Prep: 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Antimony	<0.430	100	88.6	89	75-125	mg/kg	03/01/11 04:25	
Arsenic	<0.500	100	92.3	92	75-125	mg/kg	03/01/11 04:25	
Beryllium	<0.110	100	96.5	97	75-125	mg/kg	03/01/11 04:25	
Cadmium	<0.170	100	93.6	94	75-125	mg/kg	03/01/11 04:25	
Chromium	<0.220	100	92.1	92	75-125	mg/kg	03/01/11 04:25	
Copper	<0.430	100	91.9	92	75-125	mg/kg	03/01/11 04:25	
Lead	<0.470	100	97.7	98	75-125	mg/kg	03/01/11 04:25	
Molybdenum	<0.150	100	91.9	92	75-125	mg/kg	03/01/11 04:25	
Nickel	<0.0930	100	95.4	95	75-125	mg/kg	03/01/11 04:25	
Selenium	<0.620	100	90.6	91	75-125	mg/kg	03/01/11 04:25	
Silver	<0.710	50	49.4	99	75-125	mg/kg	03/01/11 04:25	
Thallium	<0.460	100	92.1	92	75-125	mg/kg	03/01/11 04:25	
Zinc	<1.50	100	93.1	93	75-125	mg/kg	03/01/11 04:25	

Analytical Method: ICP Metals by SW846 6010B

Seq Number: 846275

Parent Sample Id: 406545-011

Matrix: Soil

MS Sample Id: 406545-011 S

Prep Method: SW3050B

Date Prep: 02/24/2011

MSD Sample Id: 406545-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Antimony	<0.498	116	88.6	76	88.3	76	75-125	0	20	mg/kg	03/01/11 04:43	
Arsenic	10.2	116	107	83	107	83	75-125	0	20	mg/kg	03/01/11 04:43	
Beryllium	<0.127	116	99.0	85	97.4	84	75-125	2	20	mg/kg	03/01/11 04:43	
Cadmium	<0.197	116	97.9	84	96.5	83	75-125	1	20	mg/kg	03/01/11 04:43	
Chromium	5.54	116	103	84	101	82	75-125	2	20	mg/kg	03/01/11 04:43	
Copper	2.50	116	98.4	83	96.8	81	75-125	2	20	mg/kg	03/01/11 04:43	
Lead	1.91	116	105	89	103	87	75-125	2	20	mg/kg	03/01/11 04:43	
Molybdenum	0.429	116	96.4	83	95.9	82	75-125	1	20	mg/kg	03/01/11 04:43	
Nickel	1.09	116	102	87	100	85	75-125	2	20	mg/kg	03/01/11 04:43	
Selenium	<0.718	116	96.9	84	96.2	83	75-125	1	20	mg/kg	03/01/11 04:43	
Silver	1.07	57.9	53.4	90	52.2	88	75-125	2	20	mg/kg	03/01/11 04:43	
Thallium	<0.533	116	98.3	85	97.7	84	75-125	1	20	mg/kg	03/01/11 04:43	
Zinc	7.00	116	109	88	108	87	75-125	1	20	mg/kg	03/01/11 04:43	

Analytical Method: Mercury by SW-846 7471A

Seq Number: 844702

MB Sample Id: 596107-1-BLK

Matrix: Solid

LCS Sample Id: 596107-1-BKS

Prep Method: SW7471P

Date Prep: 02/22/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Mercury	<0.0106	0.133	0.150	113	75-125	mg/kg	02/22/11 10:52	



QC Summary **407308**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Mercury by SW-846 7471A
Seq Number: 844702
Parent Sample Id: 407220-005

Matrix: Soil
MS Sample Id: 407220-005 S

Prep Method: SW7471P
Date Prep: 02/22/2011
MSD Sample Id: 407220-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	0.0540	0.14	0.203	106	0.201	105	75-125	1	20	mg/kg	02/22/11 11:00	

Analytical Method: Phenolics (Colorimetric, Automated 4-AAP With Distillation)
Seq Number: 845193
MB Sample Id: 845193-1-BLK

Matrix: Solid
LCS Sample Id: 845193-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Phenolic	<0.210	4	4.24	106	80-125	mg/kg	02/24/11 16:29	

Analytical Method: Phenolics (Colorimetric, Automated 4-AAP With Distillation)
Seq Number: 845193
Parent Sample Id: 407180-001

Matrix: Sludge
MS Sample Id: 407180-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Phenolic	59.1	167	264	123	80-125	mg/kg	02/24/11 16:32	

Analytical Method: Phenolics (Colorimetric, Automated 4-AAP With Distillation)
Seq Number: 845193
Parent Sample Id: 407180-001

Matrix: Sludge

MD Sample Id: 407180-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Phenolic	59.1	56.5	4	20	mg/kg	02/24/11 16:31	

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: SVOCs by SW846 8270C

Seq Number: 845292

MB Sample Id: 596123-1-BLK

Matrix: Solid

LCS Sample Id: 596123-1-BKS

Prep Method: SW3550

Date Prep: 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acenaphthene	<0.0220	1.67	1.43	86	64-106	mg/kg	02/24/11 15:05	
Acenaphthylene	<0.0300	1.67	1.35	81	64-113	mg/kg	02/24/11 15:05	
Aniline (Phenylamine, Aminobenzene)	<0.0310	1.67	0.800	48	10-98	mg/kg	02/24/11 15:05	
Anthracene	<0.0350	1.67	1.38	83	65-103	mg/kg	02/24/11 15:05	
Benzo(a)anthracene	<0.0280	1.67	1.43	86	69-106	mg/kg	02/24/11 15:05	
Benzo(a)pyrene	<0.0250	1.67	1.45	87	58-111	mg/kg	02/24/11 15:05	
Benzo(b)fluoranthene	<0.0200	1.67	1.47	88	43-133	mg/kg	02/24/11 15:05	
Benzo(g,h,i)perylene	<0.0270	1.67	1.50	90	52-131	mg/kg	02/24/11 15:05	
Benzo(k)fluoranthene	<0.0330	1.67	1.54	92	45-121	mg/kg	02/24/11 15:05	
Benzoic Acid	<0.0230	1.67	<0.0230	0	10-113	mg/kg	02/24/11 15:05	J
Benzyl Alcohol	<0.0210	1.67	1.43	86	52-107	mg/kg	02/24/11 15:05	
Benzyl Butyl Phthalate	<0.0190	1.67	1.42	85	52-109	mg/kg	02/24/11 15:05	
bis(2-chloroethoxy) methane	<0.0270	1.67	1.25	75	60-97	mg/kg	02/24/11 15:05	
bis(2-chloroethyl) ether	<0.0310	1.67	1.21	72	56-99	mg/kg	02/24/11 15:05	
bis(2-chloroisopropyl) ether	<0.0190	1.67	1.41	84	47-113	mg/kg	02/24/11 15:05	
bis(2-ethylhexyl) phthalate	<0.0220	1.67	1.44	86	51-104	mg/kg	02/24/11 15:05	
4-Bromophenyl-phenylether	<0.0300	1.67	1.34	80	55-86	mg/kg	02/24/11 15:05	
di-n-Butyl Phthalate	<0.0320	1.67	1.38	83	58-97	mg/kg	02/24/11 15:05	
Carbazole	<0.0330	1.67	1.37	82	62-103	mg/kg	02/24/11 15:05	
4-chloro-3-methylphenol	<0.0250	1.67	1.33	80	58-112	mg/kg	02/24/11 15:05	
4-Chloroaniline	<0.0290	1.67	1.20	72	21-105	mg/kg	02/24/11 15:05	
2-Chloronaphthalene	<0.0210	1.67	1.30	78	61-103	mg/kg	02/24/11 15:05	
2-Chlorophenol	<0.0340	1.67	1.28	77	61-107	mg/kg	02/24/11 15:05	
4-Chlorophenyl Phenyl Ether	<0.0200	1.67	1.31	78	58-91	mg/kg	02/24/11 15:05	
Chrysene	<0.0230	1.67	1.61	96	60-110	mg/kg	02/24/11 15:05	
Dibenz(a,h)anthracene	<0.0270	1.67	1.49	89	54-130	mg/kg	02/24/11 15:05	
Dibenzofuran	<0.0280	1.67	1.40	84	59-98	mg/kg	02/24/11 15:05	
1,2-Dichlorobenzene	<0.0240	1.67	1.17	70	62-98	mg/kg	02/24/11 15:05	
1,3-Dichlorobenzene	<0.0240	1.67	1.16	69	61-92	mg/kg	02/24/11 15:05	
1,4-Dichlorobenzene	<0.0190	1.67	1.13	68	62-94	mg/kg	02/24/11 15:05	
3,3-Dichlorobenzidine	<0.0190	1.67	1.32	79	16-124	mg/kg	02/24/11 15:05	
2,4-Dichlorophenol	<0.0320	1.67	1.32	79	59-108	mg/kg	02/24/11 15:05	
Diethyl Phthalate	<0.0310	1.67	1.41	84	53-101	mg/kg	02/24/11 15:05	
Dimethyl Phthalate	<0.00300	1.67	1.34	80	62-93	mg/kg	02/24/11 15:05	
2,4-Dimethylphenol	<0.0220	1.67	1.37	82	66-111	mg/kg	02/24/11 15:05	
2,4-Dinitrophenol	<0.0430	1.67	<0.0430	0	22-118	mg/kg	02/24/11 15:05	J
2,4-Dinitrotoluene	<0.0290	1.67	1.39	83	56-101	mg/kg	02/24/11 15:05	
2,6-Dinitrotoluene	<0.0285	1.67	1.32	79	54-99	mg/kg	02/24/11 15:05	
1,2-Diphenylhydrazine	<0.0270	1.67	1.34	80	59-106	mg/kg	02/24/11 15:05	
4,6-dinitro-2-methyl phenol	<0.0240	1.67	0.268	16	26-121	mg/kg	02/24/11 15:05	J
Fluoranthene	<0.0380	1.67	1.44	86	65-112	mg/kg	02/24/11 15:05	
Fluorene	<0.0230	1.67	1.44	86	63-107	mg/kg	02/24/11 15:05	
Hexachlorobenzene	<0.0230	1.67	1.27	76	65-99	mg/kg	02/24/11 15:05	
Hexachlorobutadiene	<0.0250	1.67	1.27	76	66-102	mg/kg	02/24/11 15:05	
Hexachlorocyclopentadiene	<0.0210	1.67	1.13	68	41-104	mg/kg	02/24/11 15:05	
Hexachloroethane	<0.0270	1.67	1.22	73	58-98	mg/kg	02/24/11 15:05	



QC Summary **407308**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: SVOCs by SW846 8270C
Seq Number: 845292
MB Sample Id: 596123-1-BLK

Matrix: Solid
LCS Sample Id: 596123-1-BKS

Prep Method: SW3550
Date Prep: 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Isophorone	<0.0230	1.67	1.46	87	69-111	mg/kg	02/24/11 15:05	
2-Methylnaphthalene	<0.0280	1.67	1.41	84	62-97	mg/kg	02/24/11 15:05	
2-methylphenol	<0.0350	1.67	1.32	79	59-109	mg/kg	02/24/11 15:05	
1-Methylnaphthalene	<0.0270	1.67	1.41	84	62-96	mg/kg	02/24/11 15:05	
3&4-Methylphenol	<0.00340	3.33	2.39	72	30-55	mg/kg	02/24/11 15:05	J
Naphthalene	<0.0210	1.67	1.31	78	63-102	mg/kg	02/24/11 15:05	
4-Nitroaniline	<0.0360	1.67	1.39	83	46-103	mg/kg	02/24/11 15:05	
3-Nitroaniline	<0.0190	1.67	1.45	87	48-94	mg/kg	02/24/11 15:05	
2-Nitroaniline	<0.0180	1.67	1.59	95	55-102	mg/kg	02/24/11 15:05	
Nitrobenzene	<0.0280	1.67	1.32	79	57-110	mg/kg	02/24/11 15:05	
2-Nitrophenol	<0.0180	1.67	1.17	70	59-104	mg/kg	02/24/11 15:05	
4-Nitrophenol	<0.0330	1.67	1.30	78	49-110	mg/kg	02/24/11 15:05	
n-Octadecane	<0.0107	1.67	1.65	99	80-123	mg/kg	02/24/11 15:05	
di-n-Octyl Phthalate	<0.0450	1.67	1.47	88	41-103	mg/kg	02/24/11 15:05	
Pentachlorophenol	<0.0250	1.67	0.629	38	47-117	mg/kg	02/24/11 15:05	J
Phenanthrene	<0.0320	1.67	1.39	83	66-107	mg/kg	02/24/11 15:05	
Phenol	<0.0340	1.67	1.29	77	61-106	mg/kg	02/24/11 15:05	
Pyrene	<0.0330	1.67	1.39	83	67-110	mg/kg	02/24/11 15:05	
1,2,4-Trichlorobenzene	<0.0260	1.67	1.24	74	63-96	mg/kg	02/24/11 15:05	
2,4,6-Trichlorophenol	<0.0280	1.67	1.30	78	61-114	mg/kg	02/24/11 15:05	
2,4,5-Trichlorophenol	<0.0270	1.67	1.27	76	64-105	mg/kg	02/24/11 15:05	
Indeno(1,2,3-c,d)Pyrene	<0.0340	1.67	1.50	90	47-137	mg/kg	02/24/11 15:05	
N-Nitrosodimethylamine	<0.0430	1.67	1.13	68	51-113	mg/kg	02/24/11 15:05	
N-Nitrosodi-n-Propylamine	<0.0340	1.67	1.39	83	49-108	mg/kg	02/24/11 15:05	
N-Nitrosodiphenylamine	<0.0200	1.67	1.20	72	53-110	mg/kg	02/24/11 15:05	

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: SVOCs by SW846 8270C

Seq Number: 845292

Parent Sample Id: 407426-001

Matrix: Solid

MS Sample Id: 407426-001 S

Prep Method: SW3550

Date Prep: 02/24/2011

MSD Sample Id: 407426-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acenaphthene	<0.0226	1.71	1.49	87	1.59	93	48-119	6	20	mg/kg	02/24/11 20:50	
Acenaphthylene	<0.0308	1.71	1.41	82	1.55	91	63-103	9	20	mg/kg	02/24/11 20:50	
Aniline (Phenylamine, Aminobenzene)	<0.0318	1.71	1.19	70	1.21	71	70-130	2	20	mg/kg	02/24/11 20:50	
Anthracene	<0.0359	1.71	1.41	82	1.50	88	59-104	6	20	mg/kg	02/24/11 20:50	
Benzo(a)anthracene	<0.0288	1.71	1.41	82	1.51	88	51-119	7	20	mg/kg	02/24/11 20:50	
Benzo(a)pyrene	<0.0257	1.71	1.47	86	1.54	90	62-104	5	20	mg/kg	02/24/11 20:50	
Benzo(b)fluoranthene	<0.0205	1.71	1.42	83	1.56	91	61-108	9	20	mg/kg	02/24/11 20:50	
Benzo(g,h,i)perylene	<0.0277	1.71	1.50	88	1.59	93	44-119	6	20	mg/kg	02/24/11 20:50	
Benzo(k)fluoranthene	<0.0339	1.71	1.56	91	1.60	94	60-112	3	20	mg/kg	02/24/11 20:50	
Benzoic Acid	<0.0236	1.71	0.887	52	1.06	62	70-130	18	20	mg/kg	02/24/11 20:50	J
Benzyl Alcohol	<0.0216	1.71	1.47	86	1.47	86	70-130	0	20	mg/kg	02/24/11 20:50	
Benzyl Butyl Phthalate	<0.0195	1.71	1.40	82	1.46	85	70-130	4	20	mg/kg	02/24/11 20:50	
bis(2-chloroethoxy) methane	<0.0277	1.71	1.30	76	1.35	79	52-122	4	20	mg/kg	02/24/11 20:50	
bis(2-chloroethyl) ether	<0.0318	1.71	1.23	72	1.27	74	70-130	3	20	mg/kg	02/24/11 20:50	
bis(2-chloroisopropyl) ether	<0.0195	1.71	1.45	85	1.50	88	70-130	3	20	mg/kg	02/24/11 20:50	
bis(2-ethylhexyl) phthalate	<0.0226	1.71	1.43	84	1.47	86	70-130	3	20	mg/kg	02/24/11 20:50	
4-Bromophenyl-phenylether	<0.0308	1.71	1.35	79	1.46	85	70-130	8	20	mg/kg	02/24/11 20:50	
di-n-Butyl Phthalate	<0.0329	1.71	1.43	84	1.52	89	55-140	6	20	mg/kg	02/24/11 20:50	
Carbazole	<0.0339	1.71	1.41	82	1.44	84	70-130	2	20	mg/kg	02/24/11 20:50	
4-chloro-3-methylphenol	<0.0257	1.71	1.40	82	1.47	86	60-107	5	20	mg/kg	02/24/11 20:50	
4-Chloroaniline	<0.0298	1.71	1.35	79	1.40	82	70-130	4	20	mg/kg	02/24/11 20:50	
2-Chloronaphthalene	<0.0216	1.71	1.35	79	1.44	84	70-130	6	20	mg/kg	02/24/11 20:50	
2-Chlorophenol	<0.0349	1.71	1.34	78	1.39	81	49-109	4	20	mg/kg	02/24/11 20:50	
4-Chlorophenyl Phenyl Ether	<0.0205	1.71	1.33	78	1.41	82	70-130	6	20	mg/kg	02/24/11 20:50	
Chrysene	<0.0236	1.71	1.60	94	1.74	102	61-106	8	20	mg/kg	02/24/11 20:50	
Dibenz(a,h)anthracene	<0.0277	1.71	1.51	88	1.60	94	47-120	6	20	mg/kg	02/24/11 20:50	
Dibenzofuran	<0.0288	1.71	1.48	87	1.57	92	70-130	6	20	mg/kg	02/24/11 20:50	
1,2-Dichlorobenzene	<0.0246	1.71	1.24	73	1.24	73	70-130	0	20	mg/kg	02/24/11 20:50	
1,3-Dichlorobenzene	<0.0246	1.71	1.23	72	1.20	70	70-130	2	20	mg/kg	02/24/11 20:50	
1,4-Dichlorobenzene	<0.0195	1.71	1.21	71	1.21	71	50-115	0	20	mg/kg	02/24/11 20:50	
3,3-Dichlorobenzidine	<0.0195	1.71	1.50	88	1.59	93	70-130	6	20	mg/kg	02/24/11 20:50	
2,4-Dichlorophenol	<0.0329	1.71	1.40	82	1.45	85	70-130	4	20	mg/kg	02/24/11 20:50	
Diethyl Phthalate	<0.0318	1.71	1.44	84	1.54	90	70-130	7	20	mg/kg	02/24/11 20:50	
Dimethyl Phthalate	<0.00308	1.71	1.36	80	1.47	86	70-130	8	20	mg/kg	02/24/11 20:50	
2,4-Dimethylphenol	<0.0226	1.71	1.40	82	1.47	86	70-130	5	20	mg/kg	02/24/11 20:50	
2,4-Dinitrophenol	<0.0442	1.71	0.142	8	0.134	8	44-137	6	20	mg/kg	02/24/11 20:50	J
2,4-Dinitrotoluene	<0.0298	1.71	1.46	85	1.52	89	56-128	4	20	mg/kg	02/24/11 20:50	
2,6-Dinitrotoluene	<0.0293	1.71	1.40	82	1.50	88	50-158	7	20	mg/kg	02/24/11 20:50	
1,2-Diphenylhydrazine	<0.0277	1.71	1.45	85	1.53	89	70-130	5	20	mg/kg	02/24/11 20:50	
4,6-dinitro-2-methyl phenol	<0.0246	1.71	0.451	26	0.451	26	70-181	0	20	mg/kg	02/24/11 20:50	J
Fluoranthene	<0.0390	1.71	1.43	84	1.50	88	59-106	5	20	mg/kg	02/24/11 20:50	
Fluorene	<0.0236	1.71	1.48	87	1.58	92	54-115	7	20	mg/kg	02/24/11 20:50	
Hexachlorobenzene	<0.0236	1.71	1.33	78	1.38	81	70-130	4	20	mg/kg	02/24/11 20:50	
Hexachlorobutadiene	<0.0257	1.71	1.29	75	1.32	77	70-130	2	20	mg/kg	02/24/11 20:50	
Hexachlorocyclopentadiene	<0.0216	1.71	0.703	41	0.713	42	70-130	1	20	mg/kg	02/24/11 20:50	J
Hexachloroethane	<0.0277	1.71	1.29	75	1.27	74	70-130	2	20	mg/kg	02/24/11 20:50	

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: SVOCs by SW846 8270C
Seq Number: 845292
Parent Sample Id: 407426-001

Matrix: Solid
MS Sample Id: 407426-001 S

Prep Method: SW3550
Date Prep: 02/24/2011
MSD Sample Id: 407426-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Isophorone	<0.0236	1.71	1.47	86	1.57	92	70-130	7	20	mg/kg	02/24/11 20:50	
2-Methylnaphthalene	<0.0288	1.71	1.45	85	1.52	89	48-100	5	20	mg/kg	02/24/11 20:50	
2-methylphenol	<0.0359	1.71	1.37	80	1.40	82	70-130	2	20	mg/kg	02/24/11 20:50	
1-Methylnaphthalene	<0.0277	1.71	1.46	85	1.49	87	44-104	2	20	mg/kg	02/24/11 20:50	
3&4-Methylphenol	<0.00349	3.42	2.46	72	2.52	74	70-176	2	20	mg/kg	02/24/11 20:50	
Naphthalene	<0.0216	1.71	1.38	81	1.43	84	50-105	4	20	mg/kg	02/24/11 20:50	
4-Nitroaniline	<0.0370	1.71	1.51	88	1.52	89	70-130	1	20	mg/kg	02/24/11 20:50	
3-Nitroaniline	<0.0195	1.71	1.55	91	1.63	95	70-130	5	20	mg/kg	02/24/11 20:50	
2-Nitroaniline	<0.0185	1.71	1.68	98	1.79	105	70-130	6	20	mg/kg	02/24/11 20:50	
Nitrobenzene	<0.0288	1.71	1.37	80	1.46	85	70-130	6	20	mg/kg	02/24/11 20:50	
2-Nitrophenol	<0.0185	1.71	1.26	74	1.35	79	70-130	7	20	mg/kg	02/24/11 20:50	
4-Nitrophenol	<0.0339	1.71	1.72	101	1.75	102	22-110	2	20	mg/kg	02/24/11 20:50	
n-Octadecane	<0.0110	1.71	1.70	99	1.90	111	80-123	11	35	mg/kg	02/24/11 20:50	
di-n-Octyl Phthalate	<0.0462	1.71	1.42	83	1.48	87	70-130	4	20	mg/kg	02/24/11 20:50	
Pentachlorophenol	<0.0257	1.71	1.15	67	1.18	69	10-119	3	20	mg/kg	02/24/11 20:50	
Phenanthrene	<0.0329	1.71	1.46	85	1.48	87	54-120	1	20	mg/kg	02/24/11 20:50	
Phenol	<0.0349	1.71	1.33	78	1.35	79	40-110	1	20	mg/kg	02/24/11 20:50	
Pyrene	<0.0339	1.71	1.36	80	1.44	84	49-125	6	20	mg/kg	02/24/11 20:50	
1,2,4-Trichlorobenzene	<0.0267	1.71	1.28	75	1.32	77	54-117	3	25	mg/kg	02/24/11 20:50	
2,4,6-Trichlorophenol	<0.0288	1.71	1.41	82	1.49	87	70-130	6	20	mg/kg	02/24/11 20:50	
2,4,5-Trichlorophenol	<0.0277	1.71	1.42	83	1.48	87	70-130	4	20	mg/kg	02/24/11 20:50	
Indeno(1,2,3-c,d)Pyrene	<0.0349	1.71	1.53	89	1.62	95	70-130	6	30	mg/kg	02/24/11 20:50	
N-Nitrosodimethylamine	<0.0442	1.71	1.25	73	1.28	75	77-160	2	20	mg/kg	02/24/11 20:50	J
N-Nitrosodi-n-Propylamine	<0.0349	1.71	1.40	82	1.43	84	48-133	2	20	mg/kg	02/24/11 20:50	
N-Nitrosodiphenylamine	<0.0205	1.71	1.24	73	1.31	77	70-196	5	20	mg/kg	02/24/11 20:50	

Analytical Method: TCLP Herbicides by SW-846 1311/8151A
Seq Number: 846051
MB Sample Id: 596434-1-BLK

Matrix: Water
LCS Sample Id: 596434-1-BKS

Prep Method: SW8151A_EXT
Date Prep: 02/28/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
2,4,5-TP (Silvex)	<0.0246	250	0.270	108	30-180	mg/L	03/02/11 14:47	
2,4-D	<0.0203	250	0.255	102	29-146	mg/L	03/02/11 14:47	

Analytical Method: TCLP Herbicides by SW-846 1311/8151A
Seq Number: 846051
Parent Sample Id: 407308-001

Matrix: Soil
MS Sample Id: 407308-001 S

Prep Method: SW8151A_EXT
Date Prep: 02/28/2011
MSD Sample Id: 407308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
2,4,5-TP (Silvex)	<0.0246	0.25	0.330	132	0.215	86	30-180	42	20	mg/L	03/02/11 17:46	J
2,4-D	<0.0203	0.25	0.320	128	0.215	86	29-146	39	20	mg/L	03/02/11 17:46	J



QC Summary

407308



**Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS**

Analytical Method: TCLP Mercury by SW1311/7470A

Prep Method: SW7470P

Seq Number: 845113

Matrix: Water

Date Prep: 02/24/2011

MB Sample Id: 596428-1-BLK

LCS Sample Id: 596428-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Mercury	<0.0000593	2	0.00240	120	75-125	mg/L	02/24/11 15:07	

Analytical Method: TCLP Mercury by SW1311/7470A

Prep Method: SW7470P

Seq Number: 845113

Matrix: Soil

Date Prep: 02/24/2011

Parent Sample Id: 407308-001

MS Sample Id: 407308-001 S

MSD Sample Id: 407308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0000593	0.002	0.00237	119	0.00238	119	75-125	0	20	mg/L	02/24/11 15:09	

Analytical Method: TCLP Metals by SW846-1311/6010B

Prep Method: SW3010A

Seq Number: 846788

Matrix: Water

Date Prep: 02/24/2011

MB Sample Id: 596472-1-BLK

LCS Sample Id: 596472-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Arsenic	0.0172	1000	1.04	104	75-125	mg/L	03/02/11 06:56	
Barium	0.0576	1000	0.963	96	75-125	mg/L	03/02/11 06:56	
Cadmium	<0.00110	1000	0.922	92	75-125	mg/L	03/02/11 06:56	
Chromium	0.00279	1000	0.926	93	0-125	mg/L	03/02/11 06:56	
Lead	<0.00470	1000	0.892	89	75-125	mg/L	03/02/11 06:56	
Selenium	<0.00670	1000	1.09	109	75-125	mg/L	03/02/11 06:56	
Silver	<0.00540	500	0.511	102	75-125	mg/L	03/02/11 06:56	

Analytical Method: TCLP Metals by SW846-1311/6010B

Prep Method: SW3010A

Seq Number: 846788

Matrix: Soil

Date Prep: 02/24/2011

Parent Sample Id: 407308-001

MS Sample Id: 407308-001 S

MSD Sample Id: 407308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	0.0253	1	1.16	113	1.15	112	75-125	1	20	mg/L	03/02/11 07:15	
Barium	0.0343	1	1.10	107	1.09	106	75-125	1	20	mg/L	03/02/11 07:15	
Cadmium	<0.00110	1	1.04	104	1.03	103	75-125	1	20	mg/L	03/02/11 07:15	
Chromium	0.00307	1	1.04	104	1.03	103	0-125	1	20	mg/L	03/02/11 07:15	
Lead	<0.00470	1	0.989	99	0.982	98	75-125	1	20	mg/L	03/02/11 07:15	
Selenium	<0.00670	1	1.20	120	1.19	119	75-125	1	20	mg/L	03/02/11 07:15	
Silver	<0.00540	0.5	0.479	96	0.463	93	75-125	3	20	mg/L	03/02/11 07:15	



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: TCLP SVOCs by SW846 8270C

Seq Number: 845636

MB Sample Id: 596536-1-BLK

Matrix: Water

LCS Sample Id: 596536-1-BKS

Prep Method: SW3510C

Date Prep: 02/28/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,4-Dichlorobenzene	<0.00140	0.25	0.173	69	30-116	mg/L	02/28/11 16:10	
2,4,5-Trichlorophenol	<0.00190	0.25	0.237	95	45-127	mg/L	02/28/11 16:10	
2,4,6-Trichlorophenol	<0.00140	0.25	0.237	95	49-131	mg/L	02/28/11 16:10	
2,4-Dinitrotoluene	<0.00160	0.25	0.235	94	37-138	mg/L	02/28/11 16:10	
2-methylphenol	<0.00110	0.25	0.187	75	28-102	mg/L	02/28/11 16:10	
3&4-Methylphenol	<0.00115	0.5	0.322	64	24-76	mg/L	02/28/11 16:10	
Hexachlorobenzene	<0.00160	0.25	0.237	95	63-131	mg/L	02/28/11 16:10	
Hexachlorobutadiene	<0.00230	0.25	0.197	79	28-121	mg/L	02/28/11 16:10	
Hexachloroethane	<0.00180	0.25	0.196	78	18-131	mg/L	02/28/11 16:10	
Nitrobenzene	<0.00160	0.25	0.231	92	44-132	mg/L	02/28/11 16:10	
Pentachlorophenol	<0.00350	0.25	0.200	80	16-150	mg/L	02/28/11 16:10	
Pyridine	<0.0445	0.25	0.0889	36	10-77	mg/L	02/28/11 16:10	

Analytical Method: TCLP SVOCs by SW846 8270C

Seq Number: 845636

Parent Sample Id: 407308-001

Matrix: Soil

MS Sample Id: 407308-001 S

Prep Method: SW3510C

Date Prep: 02/28/2011

MSD Sample Id: 407308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,4-Dichlorobenzene	<0.00140	0.25	0.145	58	0.159	64	30-116	9	20	mg/L	02/28/11 16:45	
2,4,5-Trichlorophenol	<0.00190	0.25	0.214	86	0.218	87	45-127	2	20	mg/L	02/28/11 16:45	
2,4,6-Trichlorophenol	<0.00140	0.25	0.206	82	0.220	88	49-131	7	20	mg/L	02/28/11 16:45	
2,4-Dinitrotoluene	<0.00160	0.25	0.203	81	0.213	85	37-138	5	20	mg/L	02/28/11 16:45	
2-methylphenol	<0.00110	0.25	0.162	65	0.158	63	28-102	3	20	mg/L	02/28/11 16:45	
3&4-Methylphenol	<0.00115	0.5	0.284	57	0.273	55	24-76	4	20	mg/L	02/28/11 16:45	
Hexachlorobenzene	<0.00160	0.25	0.202	81	0.219	88	63-131	8	20	mg/L	02/28/11 16:45	
Hexachlorobutadiene	<0.00230	0.25	0.167	67	0.177	71	28-121	6	20	mg/L	02/28/11 16:45	
Hexachloroethane	<0.00180	0.25	0.162	65	0.176	70	18-131	8	20	mg/L	02/28/11 16:45	
Nitrobenzene	<0.00160	0.25	0.197	79	0.206	82	44-132	4	20	mg/L	02/28/11 16:45	
Pentachlorophenol	<0.00350	0.25	0.185	74	0.193	77	16-150	4	20	mg/L	02/28/11 16:45	
Pyridine	<0.0445	0.25	0.108	43	0.120	48	10-77	11	20	mg/L	02/28/11 16:45	

Analytical Method: Total Cyanide (Colorimetric, Automated UV) by SW-846 9012

Seq Number: 844869

MB Sample Id: 844869-1-BLK

Matrix: Solid

LCS Sample Id: 844869-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	<0.0274	2.4	2.55	106	85-115	mg/kg	02/23/11 13:15	



QC Summary **407308**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Total Cyanide (Colorimetric, Automated UV) by SW-846 9012
Seq Number: 844869 **Matrix:** Soil
Parent Sample Id: 407308-001 **MS Sample Id:** 407308-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	1.19	14.5	14.0	88	85-115	mg/kg	02/23/11 13:19	

Analytical Method: Total Cyanide (Colorimetric, Automated UV) by SW-846 9012
Seq Number: 844869 **Matrix:** Soil
Parent Sample Id: 407308-001 **MD Sample Id:** 407308-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Cyanide, Total	1.19	1.10	8	20	mg/kg	02/23/11 13:23	

Analytical Method: Percent Moisture
Seq Number: 844733 **Matrix:** Soil
Parent Sample Id: 407318-004 **MD Sample Id:** 407318-004 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	2.95	3.04	3	20	%	02/22/11 09:48	

Analytical Method: Percent Moisture
Seq Number: 844733 **Matrix:** Soil
Parent Sample Id: 407428-001 **MD Sample Id:** 407428-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	19.6	19.7	1	20	%	02/22/11 09:48	

Analytical Method: PCBs by EPA 8082
Seq Number: 845526 **Matrix:** Solid
MB Sample Id: 596119-1-BLK **LCS Sample Id:** 596119-1-BKS

Prep Method: SW3550
Date Prep: 02/21/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
PCB-1016	<2.07	333	290.000	87	51-122	ug/kg	02/25/11 15:44	
PCB-1260	<2.67	333	333.000	100	46-138	ug/kg	02/25/11 15:44	



QC Summary **407308**



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: PCBs by EPA 8082
Seq Number: 845526
Parent Sample Id: 407122-002

Matrix: Soil
MS Sample Id: 407122-002 S

Prep Method: SW3550
Date Prep: 02/23/2011
MSD Sample Id: 407122-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
PCB-1016	<3.43	553	392.000	71	318.000	58	51-122	21	20	ug/kg	02/25/11 16:10	J
PCB-1260	229	553	661.000	78	547.000	58	46-138	19	20	ug/kg	02/25/11 16:10	

Analytical Method: TCLP Pesticides by SW8081A
Seq Number: 845251
MB Sample Id: 596232-1-BLK

Matrix: Water
LCS Sample Id: 596232-1-BKS

Prep Method: SW3510C
Date Prep: 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Endrin	<0.00179	50	0.049	98	10-170	mg/L	02/25/11 00:34	
Gamma-BHC (Lindane)	<0.00141	50	0.045	90	10-150	mg/L	02/25/11 00:34	
Heptachlor	<0.00288	50	0.040	80	11-141	mg/L	02/25/11 00:34	

Analytical Method: TCLP Pesticides by SW8081A
Seq Number: 845251
Parent Sample Id: 407144-001

Matrix: Sludge
MS Sample Id: 407144-001 S

Prep Method: SW3510C
Date Prep: 02/24/2011
MSD Sample Id: 407144-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Endrin	<0.00179	50	0.046	92	0.050	100	10-170	8	20	mg/L	02/25/11 00:55	
Gamma-BHC (Lindane)	<0.00141	50	0.043	86	0.046	92	10-150	7	20	mg/L	02/25/11 00:55	
Heptachlor	<0.00288	50	0.037	74	0.042	84	11-141	13	20	mg/L	02/25/11 00:55	

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Organochlorine Pesticides by EPA 8081A

Prep Method: SW3550

Seq Number: 845040

Matrix: Solid

Date Prep: 02/23/2011

MB Sample Id: 596116-1-BLK

LCS Sample Id: 596116-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.147	33.3	23.900	72	9-186	ug/kg	02/24/11 02:03	
4,4-DDE	<0.168	33.3	25.000	75	12-186	ug/kg	02/24/11 02:03	
4,4-DDT	<0.362	33.3	23.400	70	27-202	ug/kg	02/24/11 02:03	
Aldrin	<0.132	33.3	23.200	70	14-170	ug/kg	02/24/11 02:03	
Alpha-BHC	<0.338	33.3	23.200	70	13-166	ug/kg	02/24/11 02:03	
Alpha-Chlordane	<0.190	33.3	24.000	72	17-193	ug/kg	02/24/11 02:03	
Beta-BHC	<0.225	33.3	21.400	64	1-158	ug/kg	02/24/11 02:03	
Delta-BHC	<0.438	33.3	23.100	69	40-151	ug/kg	02/24/11 02:03	
Dieldrin	<0.150	33.3	25.300	76	12-179	ug/kg	02/24/11 02:03	
Endosulfan I	<0.168	33.3	24.100	72	3-168	ug/kg	02/24/11 02:03	
Endosulfan II	<0.308	33.3	23.600	71	1-174	ug/kg	02/24/11 02:03	
Endosulfan Sulfate	<0.0550	33.3	23.600	71	11-188	ug/kg	02/24/11 02:03	
Endrin	<0.172	33.3	24.600	74	14-178	ug/kg	02/24/11 02:03	
Endrin Aldehyde	<0.163	33.3	23.000	69	3-179	ug/kg	02/24/11 02:03	
Endrin Ketone	<0.140	33.3	25.200	76	1-177	ug/kg	02/24/11 02:03	
Gamma-BHC (Lindane)	<0.522	33.3	23.200	70	12-165	ug/kg	02/24/11 02:03	
Gamma-Chlordane	<0.135	33.3	24.500	74	2-168	ug/kg	02/24/11 02:03	
Heptachlor	<0.210	33.3	23.900	72	13-169	ug/kg	02/24/11 02:03	
Heptachlor Epoxide	<0.195	33.3	23.700	71	5-166	ug/kg	02/24/11 02:03	
Methoxychlor	<0.313	33.3	24.600	74	30-208	ug/kg	02/24/11 02:03	

Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Organochlorine Pesticides by EPA 8081A

Seq Number: 845040

Matrix: Soil

Prep Method: SW3550

Date Prep: 02/23/2011

Parent Sample Id: 407308-001

MS Sample Id: 407308-001 S

MSD Sample Id: 407308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.889	202	67.800	34	84.200	42	9-186	22	25	ug/kg	02/24/11 03:02	
4,4-DDE	<1.02	202	83.400	41	86.900	43	12-186	4	25	ug/kg	02/24/11 03:02	
4,4-DDT	<2.19	202	61.900	31	81.000	40	27-202	27	25	ug/kg	02/24/11 03:02	J
Aldrin	<0.798	202	65.800	33	72.100	36	14-170	9	25	ug/kg	02/24/11 03:02	
Alpha-BHC	<2.05	202	67.000	33	96.600	48	13-166	36	25	ug/kg	02/24/11 03:02	J
Alpha-Chlordane	<1.15	202	68.200	34	87.400	43	17-193	25	25	ug/kg	02/24/11 03:02	
Beta-BHC	<1.36	202	59.100	29	81.100	40	1-158	31	25	ug/kg	02/24/11 03:02	J
Delta-BHC	<2.66	202	69.600	34	87.700	43	40-151	23	25	ug/kg	02/24/11 03:02	J
Dieldrin	<0.909	202	67.000	33	88.800	44	12-179	28	25	ug/kg	02/24/11 03:02	J
Endosulfan I	<1.02	202	64.800	32	85.400	42	3-168	27	25	ug/kg	02/24/11 03:02	J
Endosulfan II	<1.87	202	58.900	29	84.400	42	1-174	36	25	ug/kg	02/24/11 03:02	J
Endosulfan Sulfate	<0.333	202	79.300	39	103.000	51	11-188	26	25	ug/kg	02/24/11 03:02	J
Endrin	<1.04	202	62.100	31	83.900	42	14-178	30	25	ug/kg	02/24/11 03:02	J
Endrin Aldehyde	<0.990	202	18.100	9	18.000	9	3-179	1	25	ug/kg	02/24/11 03:02	
Endrin Ketone	<0.848	202	69.600	34	98.800	49	1-177	35	25	ug/kg	02/24/11 03:02	J
Gamma-BHC (Lindane)	<3.16	202	65.900	33	83.000	41	12-165	23	25	ug/kg	02/24/11 03:02	
Gamma-Chlordane	<0.818	202	374.000	185	313.000	155	2-168	18	25	ug/kg	02/24/11 03:02	J
Heptachlor	<1.27	202	66.600	33	82.400	41	13-169	21	25	ug/kg	02/24/11 03:02	
Heptachlor Epoxide	<1.18	202	79.600	39	77.300	38	5-166	3	25	ug/kg	02/24/11 03:02	
Methoxychlor	<1.90	202	58.600	29	77.800	39	30-208	28	25	ug/kg	02/24/11 03:02	J

Analytical Method: VOAs by SW-846 8260B

Seq Number: 845082

Matrix: Solid

Prep Method: SW5030B

Date Prep: 02/23/2011

MB Sample Id: 596348-1-BLK

LCS Sample Id: 596348-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1-Dichloroethene	<0.000442	0.05	0.0514	103	69-143	mg/kg	02/23/11 20:30	
Benzene	<0.000460	0.05	0.0486	97	73-128	mg/kg	02/23/11 20:30	
Chlorobenzene	<0.000128	0.05	0.0452	90	68-124	mg/kg	02/23/11 20:30	
Toluene	<0.000909	0.05	0.0477	95	67-116	mg/kg	02/23/11 20:30	
Trichloroethylene	<0.000505	0.05	0.0496	99	68-131	mg/kg	02/23/11 20:30	

Analytical Method: VOAs by SW-846 8260B

Seq Number: 845082

Matrix: Soil

Prep Method: SW5030B

Date Prep: 02/23/2011

Parent Sample Id: 407345-015

MS Sample Id: 407345-015 S

MSD Sample Id: 407345-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1-Dichloroethene	<0.000503	0.0569	0.0602	106	0.0585	103	69-143	3	20	mg/kg	02/23/11 21:01	
Benzene	<0.000524	0.0569	0.0562	99	0.0555	98	73-128	1	20	mg/kg	02/23/11 21:01	
Chlorobenzene	<0.000145	0.0569	0.0533	94	0.0528	93	68-124	1	20	mg/kg	02/23/11 21:01	
Toluene	<0.00104	0.0569	0.0550	97	0.0544	96	67-116	1	20	mg/kg	02/23/11 21:01	
Trichloroethylene	<0.000575	0.0569	0.0582	102	0.0577	101	68-131	1	20	mg/kg	02/23/11 21:01	



Miami Dade Water & Sewer-South District, Miami, FL
ANNUAL PRIORITY POLLUTANTS

Analytical Method: **TCLP VOAs by EPA 8260B**
Seq Number: 845078
MB Sample Id: 596198-1-BLK

Matrix: Water
LCS Sample Id: 596198-1-BKS

Prep Method: SW5030B
Date Prep: 02/22/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.0125	2500	2.53	101	66-142	mg/L	02/23/11 10:22	
2-Butanone	<0.0843	2500	3.40	136	75-125	mg/L	02/23/11 10:22	J
Carbon Tetrachloride	<0.0114	2500	2.70	108	62-125	mg/L	02/23/11 10:22	
Chlorobenzene	<0.00882	2500	2.38	95	60-133	mg/L	02/23/11 10:22	
Chloroform	0.00973	2500	2.50	100	74-125	mg/L	02/23/11 10:22	
1,2-Dichloroethane	<0.00605	2500	2.68	107	68-127	mg/L	02/23/11 10:22	
1,1-Dichloroethene	<0.00694	2500	2.61	104	59-172	mg/L	02/23/11 10:22	
Tetrachloroethylene	<0.00489	2500	2.59	104	71-125	mg/L	02/23/11 10:22	
Trichloroethene	<0.0179	2500	2.59	104	62-137	mg/L	02/23/11 10:22	
Vinyl Chloride	<0.00960	2500	1.88	75	75-125	mg/L	02/23/11 10:22	

Analytical Method: **TCLP VOAs by EPA 8260B**
Seq Number: 845078
Parent Sample Id: 407144-001

Matrix: Sludge
MS Sample Id: 407144-001 S

Prep Method: SW5030B
Date Prep: 02/22/2011
MSD Sample Id: 407144-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0125	2500	1.90	76	1.54	62	66-142	21	21	mg/L	02/23/11 18:09	J
2-Butanone	0.271	2500	2.88	104	2.58	92	75-125	11	20	mg/L	02/23/11 18:09	
Carbon Tetrachloride	<0.0114	2500	1.86	74	1.50	60	62-125	21	20	mg/L	02/23/11 18:09	J
Chlorobenzene	<0.00882	2500	1.31	52	0.822	33	60-133	46	21	mg/L	02/23/11 18:09	J
Chloroform	<0.00609	2500	1.98	79	1.72	69	74-125	14	20	mg/L	02/23/11 18:09	J
1,2-Dichloroethane	<0.00605	2500	2.25	90	2.06	82	68-127	9	20	mg/L	02/23/11 18:09	
1,1-Dichloroethene	<0.00694	2500	2.11	84	1.82	73	59-172	15	22	mg/L	02/23/11 18:09	
Tetrachloroethylene	<0.00489	2500	1.18	47	0.671	27	71-125	55	20	mg/L	02/23/11 18:09	J
Trichloroethene	<0.0179	2500	1.70	68	1.17	47	62-137	37	24	mg/L	02/23/11 18:09	J
Vinyl Chloride	<0.00960	2500	2.14	86	1.94	78	75-125	10	20	mg/L	02/23/11 18:09	



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Miami Dade Water & Sewer-South Distri

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 02/18/2011 06:00:00 PM

Temperature Measuring device used :

Work Order #: 407308

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles/ container?	N/A
#6 *Custody Seals Signed and dated for Containers/coolers	N/A
#7 *Chain of Custody present?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	N/A
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	RKH	PH Device/Lot#
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NonConformance:

Batch 845292 8270: Spike Recovery in the LCS was outside method control limits for compounds flagged with "J". Analytes were BDL. NELAC criteria allows 5 compounds to have spike recovery outside method control limits when full list 8270 is spiked.

Batch 845040 8081: % RPD was outside method control limits between the MS and MSD in the spiked parent sample-407308-001. LCS recovery passed for compounds. Affected compounds flagged with "J2".

Batch 846051 8151-TCLP: % RPD was outside method control limits between the MS and MSD in the spiked parent sample-407308-001. LCS recovery passed for compounds. Affected compounds flagged with "J2".

Batch 845078 8260 TCLP: 2- Butanone had spike recovery above method criteria in the LCS. Analyte is BDL, compound flagged with "J".

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ DateTime : _____



Client: Miami Dade Water & Sewer-South Distri

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 02/18/2011 06:00:00 PM

Work Order #: 407308

Sample Receipt Checklist

Checklist completed by:

Robert Khusainov

Date: 02/18/2011

Checklist reviewed by:

Mike Kimmel

Date: 03/09/2011

Analytical Report 408490

for

Miami Dade Water & Sewer-South District

Project Manager: CLIVE POWELL

Annual Priority Pollutants

16-MAR-11



Florida Testing Services, LLC



Genapure™
Analytical Services, Inc.



3231 NW 7th Avenue, Boca Raton, FL 33431

Ph:(561) 447-7373 Fax:(561) 447-6136

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



16-MAR-11

Project Manager: **CLIVE POWELL**
Miami Dade Water & Sewer-South District
8950 SW 232 Street
Miami, FL 33190

Reference: XENCO Report No: **408490**
Annual Priority Pollutants
Project Address:

CLIVE POWELL:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 408490. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 408490 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mike Kimmel
Office Manager

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Sample Cross Reference 408490



Miami Dade Water & Sewer-South District, Miami, FL
Annual Priority Pollutants

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SD-Combined Effluent	W	Feb-18-11 00:00		408490-001
SD-Plant 1 Influent	W	Feb-18-11 00:00		408490-002
SD-Plant 2 Influent	W	Feb-18-11 00:00		408490-003



Certificate of Analytical Results 408490



**Miami Dade Water & Sewer-South District, Miami, FL
Annual Priority Pollutants**

Sample Id: SD-Combined Effluent	Matrix: Waste Water	% Moisture:
Lab Sample Id: 408490-001	Date Collected: Feb-18-11 00:00	
	Date Received: Mar-02-11 15:20	

Analytical Method: Total Cyanide by EPA 335.4	Analyst: RGF	Tech: 4137
	Seq Number: 846372	

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	0.00958	0.00500	0.00240	mg/L	03/04/11 16:06		1

Analytical Method: Total Phenolics by EPA 420.4	Analyst: MID	Date Prep: Mar-07-11 09:30	Prep Method: 420.4P
	Seq Number: 846838		Tech: MID

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Phenolic		0.0117	0.0200	0.00580	mg/L	03/08/11 17:33	I	1



Certificate of Analytical Results 408490



**Miami Dade Water & Sewer-South District, Miami, FL
Annual Priority Pollutants**

Sample Id: SD-Plant 1 Influent	Matrix: Waste Water	% Moisture:
Lab Sample Id: 408490-002	Date Collected: Feb-18-11 00:00	
	Date Received: Mar-02-11 15:20	

Analytical Method: Total Cyanide by EPA 335.4	Analyst: RGF	Tech: 4137
	Seq Number: 846372	

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	U	0.00500	0.00240	mg/L	03/04/11 16:12	U	1

Analytical Method: Total Phenolics by EPA 420.4	Analyst: MID	Date Prep: Mar-07-11 09:30	Prep Method: 420.4P
	Seq Number: 846838		Tech: MID

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Phenolic		0.0421	0.0200	0.00580	mg/L	03/08/11 17:34		1

Certificate of Analytical Results 408490



Miami Dade Water & Sewer-South District, Miami, FL
Annual Priority Pollutants

Sample Id: SD-Plant 2 Influent	Matrix: Waste Water	% Moisture:
Lab Sample Id: 408490-003	Date Collected: Feb-18-11 00:00	
	Date Received: Mar-02-11 15:20	

Analytical Method: Total Cyanide by EPA 335.4	Analyst: RGF	Tech: 4137
	Seq Number: 846372	

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	U	0.00500	0.00240	mg/L	03/04/11 16:14	U	1

Analytical Method: Total Phenolics by EPA 420.4	Analyst: MID	Date Prep: Mar-08-11 11:00	Prep Method: 420.4P
	Seq Number: 846841		Tech: MID

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Phenolic		0.0513	0.0200	0.00580	mg/L	03/08/11 17:45		1

FLORIDA Flagging Criteria

- A** Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
- B** Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
- F** When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
- H** Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .
- J1: No known quality control criteria exist for the component;
 - J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);
 - J3: The sample matrix interfered with the ability to make any accurate determination;
 - J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).
 - J5: The field calibration verification did not meet calibration acceptance criteria.
 - J6: QC protocol not followed.

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11078 Morrison Rd., Suite D, Dallas, TX 75229
5309 Wurzbach, Ste 104 San Antonio TX 78238
2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(972) 481-9999	(972) 481-9998
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555

J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

- K** Off-scale low. Actual value is known to be less than the value given. This code shall be used if:
1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
- L** Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- M** When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.
- N** Presumptive evidence of presence of material. This qualifier shall be used if:
1. The component has been tentatively identified based on mass spectral library search; or
 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
- V** Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

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Flagging Criteria

- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z** Too many colonies were present for accurate counting. Historically, this condition has been reported as "too numerous to count" (TNTC). The "Z" qualifier code shall be reported when the total number of colonies of all types is more than 200 in all dilutions of the sample. When applicable to the observed test results, a numeric value for the colony count for the microorganism tested shall be estimated from the highest dilution factor (smallest sample volume) used for the test and reported with the qualifier code.
- ?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
- * Not reported due to interference.

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

- D** The sample result was reported from a dilution.
- E** Indicates that extra samples were taken at composite stations.
- R** Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
- !** Data deviate from historically established concentration ranges.
- +** Outside XENCO's scope of NELAC accreditation

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555

Miami Dade Water & Sewer-South District, Miami, FL
Annual Priority Pollutants

Sample Id: 597453-1-BLK	Matrix: WATER
Lab Sample Id: 597453-1-BLK	

Analytical Method: Total Phenolics by EPA 420.4	Prep Method: 420.4P		
Date Analyzed: Mar-08-11 17:01	Analyst: MID	Date Prep: Mar-07-11 09:30	Tech: MID
Seq Number: 846838			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Phenolic		U	0.0200	0.00580	mg/L	U	1



Blank Summary **408490**



Miami Dade Water & Sewer-South District, Miami, FL
Annual Priority Pollutants

Sample Id: 597454-1-BLK	Matrix: WATER
Lab Sample Id: 597454-1-BLK	

Analytical Method: Total Phenolics by EPA 420.4	Prep Method: 420.4P
Date Analyzed: Mar-08-11 17:39 Analyst: MID	Date Prep: Mar-08-11 11:00 Tech: MID
Seq Number: 846841	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Phenolic		U	0.0200	0.00580	mg/L	U	1



Blank Summary **408490**



Miami Dade Water & Sewer-South District, Miami, FL
Annual Priority Pollutants

Sample Id: 846372-1-BLK	Matrix: WATER
Lab Sample Id: 846372-1-BLK	

Analytical Method: Total Cyanide by EPA 335.4	Prep Method:
Date Analyzed: Mar-04-11 15:49 Analyst: RGF Date Prep:	Tech: 4137
Seq Number: 846372	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Cyanide, Total	57-12-5	U	0.00500	0.00240	mg/L	U	1

Project: Florida Standard List of Methods

Version: 1.002

Miami Dade Water & Sewer-South District, Miami, FL
Annual Priority Pollutants

Analytical Method: Total Cyanide by EPA 335.4

Seq Number: 846372 Matrix: Water
MB Sample Id: 846372-1-BLK LCS Sample Id: 846372-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	<0.00240	0.2	0.202	101	90-110	mg/L	03/04/11 15:53	

Analytical Method: Total Cyanide by EPA 335.4

Seq Number: 846372 Matrix: Water
Parent Sample Id: 408324-001 MS Sample Id: 408324-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	<0.00240	0.2	0.219	110	90-110	mg/L	03/04/11 16:25	

Analytical Method: Total Cyanide by EPA 335.4

Seq Number: 846372 Matrix: Waste Water
Parent Sample Id: 408476-001 MS Sample Id: 408476-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	0.00368	0.2	0.202	99	90-110	mg/L	03/04/11 15:57	

Analytical Method: Total Cyanide by EPA 335.4

Seq Number: 846372 Matrix: Waste Water
Parent Sample Id: 408476-001 MD Sample Id: 408476-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Cyanide, Total	0.00368	0.00271	30	10	mg/L	03/04/11 16:00	J1

Analytical Method: Total Cyanide by EPA 335.4

Seq Number: 846372 Matrix: Water
Parent Sample Id: 408324-001 MD Sample Id: 408324-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Cyanide, Total	<0.00240	0.00592	NC	10	mg/L	03/04/11 16:29	

Analytical Method: Total Phenolics by EPA 420.4

Seq Number: 846838 Matrix: Water Prep Method: 420.4P
MB Sample Id: 597453-1-BLK LCS Sample Id: 597453-1-BKS Date Prep: 03/07/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Phenolic	<0.00580	0.2	0.191	96	90-110	mg/L	03/08/11 17:02	



QC Summary **408490**



Miami Dade Water & Sewer-South District, Miami, FL

Annual Priority Pollutants

Analytical Method: Total Phenolics by EPA 420.4

Seq Number: 846841

MB Sample Id: 597454-1-BLK

Matrix: Water

LCS Sample Id: 597454-1-BKS

Prep Method: 420.4P

Date Prep: 03/08/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Phenolic	<0.00580	0.2	0.193	97	90-110	mg/L	03/08/11 17:40	

Analytical Method: Total Phenolics by EPA 420.4

Seq Number: 846838

Parent Sample Id: 408442-003

Matrix: Waste Water

MS Sample Id: 408442-003 S

Prep Method: 420.4P

Date Prep: 03/07/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Phenolic	0.113	0.2	0.198	43	90-110	mg/L	03/08/11 17:06	J

Analytical Method: Total Phenolics by EPA 420.4

Seq Number: 846838

Parent Sample Id: 408445-009

Matrix: Water

MS Sample Id: 408445-009 S

Prep Method: 420.4P

Date Prep: 03/07/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Phenolic	<0.00580	0.2	0.194	97	90-110	mg/L	03/08/11 17:20	

Analytical Method: Total Phenolics by EPA 420.4

Seq Number: 846841

Parent Sample Id: 408821-001

Matrix: Water

MS Sample Id: 408821-001 S

Prep Method: 420.4P

Date Prep: 03/08/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Phenolic	0.274	0.2	0.264	0	90-110	mg/L	03/08/11 17:44	J

Analytical Method: Total Phenolics by EPA 420.4

Seq Number: 846838

Parent Sample Id: 408442-003

Matrix: Waste Water

Prep Method: 420.4P

Date Prep: 03/07/2011

MD Sample Id: 408442-003 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Phenolic	0.113	0.136	18	20	mg/L	03/08/11 17:05	

Analytical Method: Total Phenolics by EPA 420.4

Seq Number: 846838

Parent Sample Id: 408445-009

Matrix: Water

Prep Method: 420.4P

Date Prep: 03/07/2011

MD Sample Id: 408445-009 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Phenolic	<0.00580	<0.00580	NC	20	mg/L	03/08/11 17:36	



QC Summary **408490**



Miami Dade Water & Sewer-South District, Miami, FL
Annual Priority Pollutants

Analytical Method: Total Phenolics by EPA 420.4
Seq Number: 846841
Parent Sample Id: 408821-001

Matrix: Water

Prep Method: 420.4P
Date Prep: 03/08/2011
MD Sample Id: 408821-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Phenolic	0.274	0.266	3	20	mg/L	03/08/11 17:42	



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Miami Dade Water & Sewer-South Distri

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 03/02/2011 03:20:00 PM

Temperature Measuring device used : T-109

Work Order #: 408490

Sample Receipt Checklist

Comments

- #1 *Temperature of cooler(s)? 4
- #2 *Shipping container in good condition? Yes
- #3 *Samples received on ice? Yes
- #4 *Custody Seals intact on shipping container/ cooler? N/A
- #5 Custody Seals intact on sample bottles/ container? N/A
- #6 *Custody Seals Signed and dated for Containers/coolers N/A
- #7 *Chain of Custody present? Yes
- #9 Any missing/extra samples? No
- #10 Chain of Custody signed when relinquished/ received? Yes
- #11 Chain of Custody agrees with sample label(s)? Yes
- #12 Container label(s) legible and intact? Yes
- #13 Sample matrix/ properties agree with Chain of Custody? Yes
- #14 Samples in proper container/ bottle? Yes
- #15 Samples properly preserved? Yes
- #16 Sample container(s) intact? Yes
- #17 Sufficient sample amount for indicated test(s)? Yes
- #18 All samples received within hold time? Yes
- #19 Subcontract of sample(s)? No
- #20 VOC samples have zero headspace (less than 1/4 inch bubble)? N/A
- #21 <2 for all samples preserved with HNO3,HCL, H2SO4? Yes
- #22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	OEH	PH Device/Lot#
----------	-----	----------------

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ DateTime : _____

Checklist completed by: *Roderick E. McHenry*
Roderick E. McHenry

Date: 03/03/2011

Checklist reviewed by: *Mike Kimmel*
Mike Kimmel

Date: 03/16/2011

XENCO LABORATORIES
Container Receipt Verification Form

Work Order Number: 408490 Chain of Custody Number(s): 274235

Tests	Container Type/Pres.	gal GA/	32oz NM GA/	32oz NM GA/	32oz NM GA/	32oz NM GA/	32oz W/M GA/	VOA/	VOA/	VOA/	120mL P w. Pill/	4oz Plastic/	4oz Plastic/	250mL HDPE/	250mL HDPE/	500mL HDPE/	500mL HDPE/	500mL HDPE/	90z GC/	90z GC/	90z GC/	40z GC/	40z GC/	20z GC/	20z GC/	Tedlar Bag	Ampules/	Other/	Comments					

Abbreviations:
 Gal GA = One gallon amber
 32oz NM GA = 32 oz Amberglass
 VOA = 40mL vials
 32oz W/M GA = 32 oz Wide Mouth Amberglass
 1L HDPE = 1L (1000mL) Plastic Bottle
 500mL HDPE = 500mL Plastic Bottle
 250mL HDPE = 250mL Plastic Bottle
 8oz GC = 8oz Soil Jar
 4oz GC = 4oz Soil Jar
 2oz GC = 2oz soil jar
 120mL Plastic w. Pill = BacT
 Zip = Ziplock Bag
 4oz Plastic = 4oz Plastic Bottle

HCl = Hydrochloric Acid
 H2SO4 = Sulfuric Acid
 NaOH = Sodium Hydroxide
 MeOH = Methanol
 HNO3 = Nitric Acid
 ZnAc = Zinc Acetate
 Na2S2O3 = Sodium Thiosulfate

NH4Cl2 = Ammonium Chloride
 DI H2O = DI Water
 MCAA = Monochloroacetic Acid

Reviewed By: _____

MIAMIDADE SOUTH DISTRICT WASTEWATER TREATMENT PLANT

SOUTH DISTRICT LABORATORY FDOH # E56227

3/7/2012

ANALYSIS NAME	COLLECTION DATE	INFLUENT PLANT 1		INFLUENT PLANT 2		EFFLUENT		ANALYSIS UNIT	METHOD
		NUMERIC RESULT	NUMERIC RESULT	NUMERIC RESULT	NUMERIC RESULT	NUMERIC RESULT	NUMERIC RESULT		
Ammonia	2/3/2011	27.9	26.7	24.6			mg/L	EPA 350.1	
Ammonia	3/2/2011	25.7	26.1	26.1			mg/L	EPA 350.1	
Ammonia	4/6/2011	33.3	30.1	29.8			mg/L	EPA 350.1	
Ammonia	5/4/2011	31.9	31.2	33.8			mg/L	EPA 350.1	
Ammonia	6/8/2011	32.3	32.1	33.6			mg/L	EPA 350.1	
Ammonia	7/6/2011	29.9	29.9	30.8			mg/L	EPA 350.1	
Ammonia	8/1/2011	28.2	26.4	27.1			mg/L	EPA 350.1	
Ammonia	9/7/2011	15.3	16.3	14.6			mg/L	EPA 350.1	
Ammonia	11/2/2011	13.0	14.5	13.5			mg/L	EPA 350.1	
Ammonia	12/7/2011	20.7	21.9	22.0			mg/L	EPA 350.1	
Ammonia	1/4/2012	29.0	31.6	31.7			mg/L	EPA 350.1	
Ammonia	2/1/2012	26.5	31.4	28.5			mg/L	EPA 350.1	

Clive Powell 3/7/12

Prepared by Clive Powell, Laboratory Director

February 28, 2012

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

RE: Project: 124090
Pace Project No.: 3550615

Dear Clive Powell:

Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 124090
Pace Project No.: 3550815

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

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

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SAMPLE SUMMARY

Project: 124090
Pace Project No.: 3550815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3550815001	SD-INFLUENT EAST	Water	02/21/12 23:00	02/22/12 17:10
3550615002	SD-INFLUENT WEST	Water	02/21/12 23:00	02/22/12 17:10
3550615003	SD-COMBINED EFFLUENT	Water	02/21/12 23:00	02/22/12 17:10

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: 124090
Pace Project No.: 3550615

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3550615001	SD-INFLUENT EAST	EPA 335.4	SOA	1	PASI-O
		EPA 420.4	KDM	1	PASI-O
3550615002	SD-INFLUENT WEST	EPA 335.4	SOA	1	PASI-O
		EPA 420.4	KDM	1	PASI-O
3550615003	SD-COMBINED EFFLUENT	EPA 335.4	SOA	1	PASI-O
		EPA 420.4	KDM	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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HITS ONLY

Project: 124090
Pace Project No.: 3550615

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
3550615001	SD-INFLUENT EAST					
EPA 420.4	Phenolics, Total Recoverable	0.039	mg/L	0.010	02/28/12 11:12	
3550615002	SD-INFLUENT WEST					
EPA 420.4	Phenolics, Total Recoverable	0.078	mg/L	0.020	02/28/12 11:17	
3550615003	SD-COMBINED EFFLUENT					
EPA 335.4	Cyanide	0.010	mg/L	0.010	02/24/12 10:06	

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: 124090
 Pace Project No.: 3550615

Sample: SD-INFLUENT EAST		Lab ID: 3550615001	Collected: 02/21/12 23:00	Received: 02/22/12 17:10	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	02/24/12 06:00	02/24/12 10:01	57-12-5	
420.4 Phenolics, Total	Analytical Method: EPA 420.4								
Phenolics, Total Recoverable	0.039	mg/L	0.010	0.0080	1		02/28/12 11:12		

ANALYTICAL RESULTS

Project: 124090
Pace Project No.: 3550615

Sample: SD-INFLUENT WEST **Lab ID: 3550615002** Collected: 02/21/12 23:00 Received: 02/22/12 17:10 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	02/24/12 08:00	02/24/12 10:05	57-12-5	
420.4 Phenolics, Total	Analytical Method: EPA 420.4								
Phenolics, Total Recoverable	0.078	mg/L	0.020	0.016	1		02/28/12 11:17		



ANALYTICAL RESULTS

Project: 124090
 Pace Project No.: 3550815

Sample: SD-COMBINED EFFLUENT Lab ID: 3550815003 Collected: 02/21/12 23:00 Received: 02/22/12 17:10 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	0.010	mg/L	0.010	0.0050	1	02/24/12 06:00	02/24/12 10:06	57-12-5	
420.4 Phenolics, Total	Analytical Method: EPA 420.4								
Phenolics, Total Recoverable	0.0080U	mg/L	0.010	0.0080	1		02/28/12 10:54		

QUALITY CONTROL DATA

Project: 124090
Pace Project No.: 3550615

QC Batch: WETA/15393 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 3550615001, 3550615002, 3550615003

METHOD BLANK: 345924 Matrix: Water
Associated Lab Samples: 3550615001, 3550615002, 3550615003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	0.0050U	0.010	02/24/12 09:54	

LABORATORY CONTROL SAMPLE: 345925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.05	0.053	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 345926 345927

Parameter	Units	3550615001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Cyanide	mg/L	0.0050 U	.05	.05	0.052	0.052	101	102	90-110	.7 20	

QUALITY CONTROL DATA

Project: 124090
Pace Project No.: 3550615

QC Batch: WETA/15440 Analysis Method: EPA 420.4
QC Batch Method: EPA 420.4 Analysis Description: 420.4 Phenolics
Associated Lab Samples: 3550615001, 3550615002, 3550615003

METHOD BLANK: 347443 Matrix: Water
Associated Lab Samples: 3550615001, 3550615002, 3550615003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	0.0080U	0.010	02/28/12 10:36	

LABORATORY CONTROL SAMPLE: 347444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	.4	0.41	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 347445 347446

Parameter	Units	347445		347446		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		3550612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
Phenolics, Total Recoverable	mg/L	0.12	.8	.8	0.94	0.88	102	95	90-110	7 20

QUALIFIERS

Project: 124090
Pace Project No.: 3550615

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.

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

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 124090
Pace Project No.: 3550615

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3550615001	SD-INFLUENT EAST	EPA 335.4	WETA/15393	EPA 335.4	WETA/15396
3550615002	SD-INFLUENT WEST	EPA 335.4	WETA/15393	EPA 335.4	WETA/15396
3550615003	SD-COMBINED EFFLUENT	EPA 335.4	WETA/15393	EPA 335.4	WETA/15396
3550615001	SD-INFLUENT EAST	EPA 420.4	WETA/15440		
3550615002	SD-INFLUENT WEST	EPA 420.4	WETA/15440		
3550615003	SD-COMBINED EFFLUENT	EPA 420.4	WETA/15440		



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

February 27, 2012

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

RE: Project: Annual Priority Pollutant
Pace Project No.: 3550290

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,

Rosy Guima

rossy.guima@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, Miami Dade Water & Sewer
Department



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

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



SAMPLE SUMMARY

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3550290001	Influent East	Water	02/15/12 23:00	02/17/12 13:07
3550290002	Influent West	Water	02/15/12 23:00	02/17/12 13:07
3550290003	Combined Effluent	Water	02/15/12 23:00	02/17/12 13:07
3550290004	Cake	Solid	02/16/12 10:40	02/17/12 13:07

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3550290001	Influent East	EPA 608	BAG	27	PASI-O
		EPA 200.7	IST	12	PASI-O
		EPA 200.8	HEA	1	PASI-O
		EPA 245.1	HEA	1	PASI-O
		EPA 625	JEZ	63	PASI-O
		EPA 624	SK	31	PASI-O
		EPA 1664A	JGW	1	PASI-O
3550290002	Influent West	EPA 608	BAG	27	PASI-O
		EPA 200.7	IST	12	PASI-O
		EPA 200.8	HEA	1	PASI-O
		EPA 245.1	HEA	1	PASI-O
		EPA 625	JEZ	63	PASI-O
		EPA 624	SK	31	PASI-O
		EPA 1664A	JGW	1	PASI-O
3550290003	Combined Effluent	EPA 608	BAG	27	PASI-O
		EPA 200.7	IST	12	PASI-O
		EPA 200.8	HEA	1	PASI-O
		EPA 245.1	HEA	1	PASI-O
		EPA 625	JEZ	63	PASI-O
		EPA 624	SK	31	PASI-O
		EPA 1664A	JGW	1	PASI-O
3550290004	Cake	EPA 8081	JLG	22	PASI-O
		EPA 8081	BAG	9	PASI-O
		EPA 8082	BAG	9	PASI-O
		EPA 8151	LJM	3	PASI-O
		EPA 6010	TAP	12	PASI-O
		EPA 6010	TAP	7	PASI-O
		EPA 7470	HEA	1	PASI-O
		EPA 7471	HEA	1	PASI-O
		EPA 8270	JEZ	63	PASI-O
		EPA 8270	EAO	18	PASI-O
		EPA 8260	JBH	31	PASI-O
		EPA 8260	SK	14	PASI-O
		ASTM D2974-87	GMD	1	PASI-O
		EPA 9012	SOA	1	PASI-O
EPA 9066	KHC	1	PASI-O		

REPORT OF LABORATORY ANALYSIS

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HITS ONLY

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
3550290001	Influent East					
EPA 200.7	Copper	22.6	ug/L	5.0	02/21/12 07:01	
EPA 200.7	Zinc	90.7	ug/L	20.0	02/21/12 07:01	
EPA 625	bis(2-Ethylhexyl)phthalate	17.6	ug/L	101	02/19/12 18:31	
EPA 624	Chloroform	2.1	ug/L	1.0	02/18/12 15:23	
EPA 624	Toluene	5.2	ug/L	1.0	02/18/12 15:23	
EPA 1664A	Oil and Grease	20.3	mg/L	9.1	02/23/12 18:44	
3550290002	Influent West					
EPA 200.7	Chromium	2.6	ug/L	5.0	02/21/12 07:05	
EPA 200.7	Copper	26.4	ug/L	5.0	02/21/12 07:05	
EPA 200.7	Zinc	70.6	ug/L	20.0	02/21/12 07:05	
EPA 625	Diethylphthalate	11.9	ug/L	102	02/19/12 18:49	
EPA 625	bis(2-Ethylhexyl)phthalate	119	ug/L	102	02/19/12 18:49	
EPA 624	Chloroform	3.3	ug/L	1.0	02/18/12 16:35	
EPA 624	Tetrachloroethene	0.76	ug/L	1.0	02/18/12 16:35	
EPA 624	Toluene	0.93	ug/L	1.0	02/18/12 16:35	
EPA 1664A	Oil and Grease	19.7	mg/L	9.2	02/23/12 18:45	
3550290003	Combined Effluent					
EPA 200.7	Zinc	10.4	ug/L	20.0	02/21/12 07:09	
EPA 625	Diethylphthalate	2.2	ug/L	5.0	02/19/12 17:20	
EPA 625	bis(2-Ethylhexyl)phthalate	25.4	ug/L	5.0	02/19/12 17:20	
EPA 624	Bromodichloromethane	1.8	ug/L	0.60	02/18/12 16:11	
EPA 624	Chloroform	4.1	ug/L	1.0	02/18/12 16:11	
3550290004	Cake					
EPA 8081	4,4'-DDE	11.3	ug/kg	33.5	02/22/12 17:49	
EPA 6010	Antimony	3.7	mg/kg	4.8	02/22/12 16:48	
EPA 6010	Arsenic	5.1	mg/kg	3.2	02/22/12 16:48	
EPA 6010	Cadmium	2.1	mg/kg	0.32	02/22/12 16:48	
EPA 6010	Chromium	30.7	mg/kg	1.6	02/22/12 16:48	
EPA 6010	Copper	467	mg/kg	1.6	02/22/12 16:48	
EPA 6010	Lead	29.6	mg/kg	3.2	02/22/12 16:48	
EPA 6010	Nickel	16.1	mg/kg	1.6	02/22/12 16:48	
EPA 6010	Selenium	12.0	mg/kg	4.8	02/22/12 16:48	
EPA 6010	Silver	8.6	mg/kg	1.6	02/22/12 16:48	
EPA 6010	Zinc	1330	mg/kg	6.4	02/22/12 16:48	
EPA 7471	Mercury	0.92	mg/kg	0.10	02/22/12 10:55	J(M1)
EPA 8270	Benzo(a)anthracene	659	ug/kg	676	02/23/12 12:50	
EPA 8270	Benzo(a)pyrene	712	ug/kg	676	02/23/12 12:50	
EPA 8270	Benzo(b)fluoranthene	847	ug/kg	676	02/23/12 12:50	
EPA 8270	Benzo(k)fluoranthene	714	ug/kg	676	02/23/12 12:50	
EPA 8270	Chrysene	873	ug/kg	676	02/23/12 12:50	
EPA 8270	Dimethylphthalate	2350	ug/kg	3480	02/23/12 12:50	
EPA 8270	bis(2-Ethylhexyl)phthalate	16000	ug/kg	3480	02/23/12 12:50	
EPA 8270	Fluoranthene	1150	ug/kg	676	02/23/12 12:50	
EPA 8270	Phenol	3250	ug/kg	3480	02/23/12 12:50	
EPA 8270	Pyrene	1330	ug/kg	676	02/23/12 12:50	
EPA 8260	2-Butanone (MEK)	0.017	mg/L	0.010	02/24/12 02:24	

REPORT OF LABORATORY ANALYSIS



HITS ONLY

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
3550290004	Cake					
EPA 8260	1,4-Dichlorobenzene	0.0015	mg/L	0.0010	02/24/12 02:24	
ASTM D2974-87	Percent Moisture	85.3	%	0.10	02/20/12 15:15	
EPA 9012	Cyanide	3.2	mg/kg	1.6	02/23/12 06:28	J(M1)
EPA 9066	Phenolics, Total Recoverable	75.9	mg/kg	8.4	02/23/12 17:38	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Sample: Influent East Lab ID: 3550290001 Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
608SF GCS Pesticides and PCBs									
Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
Aldrin	0.0062U	ug/L	0.010	0.0062	1	02/19/12 09:30	02/22/12 23:00	309-00-2	
alpha-BHC	0.0041U	ug/L	0.010	0.0041	1	02/19/12 09:30	02/22/12 23:00	319-84-6	
beta-BHC	0.0062U	ug/L	0.010	0.0062	1	02/19/12 09:30	02/22/12 23:00	319-85-7	
delta-BHC	0.0062U	ug/L	0.010	0.0062	1	02/19/12 09:30	02/22/12 23:00	319-86-8	
gamma-BHC (Lindane)	0.0041U	ug/L	0.010	0.0041	1	02/19/12 09:30	02/22/12 23:00	58-89-9	
Chlordane (Technical)	0.082U	ug/L	0.51	0.082	1	02/19/12 09:30	02/22/12 23:00	57-74-9	
4,4'-DDD	0.0051U	ug/L	0.010	0.0051	1	02/19/12 09:30	02/22/12 23:00	72-54-8	
4,4'-DDE	0.0082U	ug/L	0.010	0.0082	1	02/19/12 09:30	02/22/12 23:00	72-55-9	
4,4'-DDT	0.0051U	ug/L	0.010	0.0051	1	02/19/12 09:30	02/22/12 23:00	50-29-3	
Dieldrin	0.0051U	ug/L	0.010	0.0051	1	02/19/12 09:30	02/22/12 23:00	60-57-1	
Endosulfan I	0.0051U	ug/L	0.010	0.0051	1	02/19/12 09:30	02/22/12 23:00	959-98-8	
Endosulfan II	0.0041U	ug/L	0.010	0.0041	1	02/19/12 09:30	02/22/12 23:00	33213-65-9	
Endosulfan sulfate	0.010U	ug/L	0.010	0.010	1	02/19/12 09:30	02/22/12 23:00	1031-07-8	
Endrin	0.0062U	ug/L	0.010	0.0062	1	02/19/12 09:30	02/22/12 23:00	72-20-8	
Endrin aldehyde	0.0051U	ug/L	0.0051	0.0051	1	02/19/12 09:30	02/22/12 23:00	7421-93-4	
Heptachlor	0.0062U	ug/L	0.010	0.0062	1	02/19/12 09:30	02/22/12 23:00	76-44-8	
Heptachlor epoxide	0.0062U	ug/L	0.010	0.0062	1	02/19/12 09:30	02/22/12 23:00	1024-57-3	
PCB-1016 (Aroclor 1016)	0.082U	ug/L	0.51	0.082	1	02/19/12 09:30	02/22/12 23:00	12674-11-2	
PCB-1221 (Aroclor 1221)	0.083U	ug/L	0.51	0.083	1	02/19/12 09:30	02/22/12 23:00	11104-28-2	
PCB-1232 (Aroclor 1232)	0.12U	ug/L	0.51	0.12	1	02/19/12 09:30	02/22/12 23:00	11141-16-5	
PCB-1242 (Aroclor 1242)	0.13U	ug/L	0.51	0.13	1	02/19/12 09:30	02/22/12 23:00	53469-21-9	
PCB-1248 (Aroclor 1248)	0.28U	ug/L	0.51	0.28	1	02/19/12 09:30	02/22/12 23:00	12672-29-6	
PCB-1254 (Aroclor 1254)	0.15U	ug/L	0.51	0.15	1	02/19/12 09:30	02/22/12 23:00	11097-69-1	
PCB-1260 (Aroclor 1260)	0.11U	ug/L	0.51	0.11	1	02/19/12 09:30	02/22/12 23:00	11096-82-5	
Toxaphene	0.38U	ug/L	0.51	0.38	1	02/19/12 09:30	02/22/12 23:00	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	46 %		53-110		1	02/19/12 09:30	02/22/12 23:00	877-09-8	J(S1)
Decachlorobiphenyl (S)	46 %		61-121		1	02/19/12 09:30	02/22/12 23:00	2051-24-3	J(S1)
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Antimony	5.0U	ug/L	15.0	5.0	1	02/20/12 09:54	02/21/12 07:01	7440-36-0	
Arsenic	5.0U	ug/L	10.0	5.0	1	02/20/12 09:54	02/21/12 07:01	7440-38-2	
Beryllium	0.50U	ug/L	1.0	0.50	1	02/20/12 09:54	02/21/12 07:01	7440-41-7	
Cadmium	0.50U	ug/L	1.0	0.50	1	02/20/12 09:54	02/21/12 07:01	7440-43-9	
Chromium	2.5U	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:01	7440-47-3	
Copper	22.6	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:01	7440-50-8	
Lead	5.0U	ug/L	10.0	5.0	1	02/20/12 09:54	02/21/12 07:01	7439-92-1	
Molybdenum	5.0U	ug/L	10.0	5.0	1	02/20/12 09:54	02/21/12 07:01	7439-98-7	
Nickel	2.5U	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:01	7440-02-0	
Selenium	7.5U	ug/L	15.0	7.5	1	02/20/12 09:54	02/21/12 07:01	7782-49-2	
Silver	2.5U	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:01	7440-22-4	
Zinc	90.7	ug/L	20.0	10.0	1	02/20/12 09:54	02/21/12 07:01	7440-66-6	
200.8 MET ICPMS									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Thallium	5.0U	ug/L	10.0	5.0	10	02/20/12 09:54	02/23/12 14:07	7440-28-0	D3

Date: 02/27/2012 04:40 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Influent East Lab ID: 3550290001 Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	0.10U	ug/L	0.20	0.10	1	02/18/12 11:00	02/24/12 14:11	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625							
Acenaphthylene	19.2U	ug/L	101	19.2	20	02/18/12 08:30	02/19/12 18:31	208-96-8	
Anthracene	12.2U	ug/L	101	12.2	20	02/18/12 08:30	02/19/12 18:31	120-12-7	
Benzdine	15.8U	ug/L	506	15.6	20	02/18/12 08:30	02/19/12 18:31	92-87-5	
Benzo(a)anthracene	12.8U	ug/L	40.5	12.8	20	02/18/12 08:30	02/19/12 18:31	56-55-3	
Benzo(a)pyrene	11.7U	ug/L	20.3	11.7	20	02/18/12 08:30	02/19/12 18:31	50-32-8	
Benzo(b)fluoranthene	12.6U	ug/L	40.5	12.6	20	02/18/12 08:30	02/19/12 18:31	205-99-2	
Benzo(g,h,i)perylene	13.8U	ug/L	101	13.8	20	02/18/12 08:30	02/19/12 18:31	191-24-2	
Benzo(k)fluoranthene	10.3U	ug/L	81.0	10.3	20	02/18/12 08:30	02/19/12 18:31	207-08-9	
4-Bromophenylphenyl ether	13.8U	ug/L	101	13.6	20	02/18/12 08:30	02/19/12 18:31	101-55-3	
Butylbenzylphthalate	14.8U	ug/L	101	14.6	20	02/18/12 08:30	02/19/12 18:31	85-68-7	
4-Chloro-3-methylphenol	12.8U	ug/L	405	12.6	20	02/18/12 08:30	02/19/12 18:31	59-50-7	
bis(2-Chloroethoxy)methane	59.8U	ug/L	101	59.8	20	02/18/12 08:30	02/19/12 18:31	111-91-1	
bis(2-Chloroethyl) ether	15.2U	ug/L	81.0	15.2	20	02/18/12 08:30	02/19/12 18:31	111-44-4	
bis(2-Chloroisopropyl) ether	14.8U	ug/L	101	14.8	20	02/18/12 08:30	02/19/12 18:31	108-60-1	
2-Chloronaphthalene	16.2U	ug/L	40.5	16.2	20	02/18/12 08:30	02/19/12 18:31	91-58-7	
2-Chlorophenol	13.8U	ug/L	101	13.8	20	02/18/12 08:30	02/19/12 18:31	95-57-8	
4-Chlorophenylphenyl ether	12.8U	ug/L	101	12.8	20	02/18/12 08:30	02/19/12 18:31	7005-72-3	
Chrysene	7.5U	ug/L	101	7.5	20	02/18/12 08:30	02/19/12 18:31	218-01-9	
Dibenz(a,h)anthracene	13.2U	ug/L	40.5	13.2	20	02/18/12 08:30	02/19/12 18:31	53-70-3	
1,2-Dichlorobenzene	13.8U	ug/L	101	13.8	20	02/18/12 08:30	02/19/12 18:31	95-50-1	
1,3-Dichlorobenzene	15.4U	ug/L	101	15.4	20	02/18/12 08:30	02/19/12 18:31	541-73-1	
1,4-Dichlorobenzene	15.6U	ug/L	101	15.6	20	02/18/12 08:30	02/19/12 18:31	106-46-7	
3,3'-Dichlorobenzidine	14.0U	ug/L	203	14.0	20	02/18/12 08:30	02/19/12 18:31	91-94-1	
2,4-Dichlorophenol	11.3U	ug/L	40.5	11.3	20	02/18/12 08:30	02/19/12 18:31	120-83-2	
Diethylphthalate	10.3U	ug/L	101	10.3	20	02/18/12 08:30	02/19/12 18:31	84-86-2	
2,4-Dimethylphenol	32.0U	ug/L	101	32.0	20	02/18/12 08:30	02/19/12 18:31	105-67-9	
Dimethylphthalate	13.0U	ug/L	101	13.0	20	02/18/12 08:30	02/19/12 18:31	131-11-3	
Di-n-butylphthalate	8.3U	ug/L	101	8.3	20	02/18/12 08:30	02/19/12 18:31	84-74-2	
4,6-Dinitro-2-methylphenol	26.7U	ug/L	405	26.7	20	02/18/12 08:30	02/19/12 18:31	534-52-1	
2,4-Dinitrophenol	31.8U	ug/L	284	31.8	20	02/18/12 08:30	02/19/12 18:31	51-28-5	
2,4-Dinitrotoluene	10.7U	ug/L	40.5	10.7	20	02/18/12 08:30	02/19/12 18:31	121-14-2	
2,6-Dinitrotoluene	13.0U	ug/L	81.0	13.0	20	02/18/12 08:30	02/19/12 18:31	606-20-2	
Di-n-octylphthalate	18.2U	ug/L	101	18.2	20	02/18/12 08:30	02/19/12 18:31	117-84-0	
Dioxin Screen	203U	ug/L	203	203	20	02/18/12 08:30	02/19/12 18:31	.....	N2
1,2-Diphenylhydrazine	13.4U	ug/L	101	13.4	20	02/18/12 08:30	02/19/12 18:31	122-66-7	
bis(2-Ethylhexyl)phthalate	17.6U	ug/L	101	16.2	20	02/18/12 08:30	02/19/12 18:31	117-81-7	
Fluoranthene	10.9U	ug/L	101	10.9	20	02/18/12 08:30	02/19/12 18:31	206-44-0	
Fluorene	11.3U	ug/L	101	11.3	20	02/18/12 08:30	02/19/12 18:31	86-73-7	
Hexachloro-1,3-butadiene	21.9U	ug/L	40.5	21.9	20	02/18/12 08:30	02/19/12 18:31	87-68-3	
Hexachlorobenzene	16.2U	ug/L	20.3	16.2	20	02/18/12 08:30	02/19/12 18:31	118-74-1	
Hexachlorocyclopentadiene	25.9U	ug/L	101	25.9	20	02/18/12 08:30	02/19/12 18:31	77-47-4	
Hexachloroethane	14.4U	ug/L	101	14.4	20	02/18/12 08:30	02/19/12 18:31	67-72-1	
Indeno(1,2,3-cd)pyrene	14.8U	ug/L	40.5	14.8	20	02/18/12 08:30	02/19/12 18:31	193-39-5	

ANALYTICAL RESULTS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Sample: Influent East Lab ID: 3550290001 Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV									
Analytical Method: EPA 625 Preparation Method: EPA 625									
Isophorone	14.8U	ug/L	101	14.8	20	02/18/12 08:30	02/19/12 18:31	78-59-1	
Naphthalene	15.8U	ug/L	101	15.8	20	02/18/12 08:30	02/19/12 18:31	91-20-3	
Nitrobenzene	22.1U	ug/L	81.0	22.1	20	02/18/12 08:30	02/19/12 18:31	98-95-3	
2-Nitrophenol	16.4U	ug/L	101	16.4	20	02/18/12 08:30	02/19/12 18:31	88-75-5	
4-Nitrophenol	21.9U	ug/L	405	21.9	20	02/18/12 08:30	02/19/12 18:31	100-02-7	
N-Nitrosodimethylamine	19.6U	ug/L	40.5	19.6	20	02/18/12 08:30	02/19/12 18:31	62-75-9	
N-Nitroso-di-n-propylamine	19.0U	ug/L	81.0	19.0	20	02/18/12 08:30	02/19/12 18:31	621-64-7	
N-Nitrosodiphenylamine	10.1U	ug/L	101	10.1	20	02/18/12 08:30	02/19/12 18:31	86-30-6	
Pentachlorophenol	13.4U	ug/L	405	13.4	20	02/18/12 08:30	02/19/12 18:31	87-86-5	
Phenanthrene	10.5U	ug/L	101	10.5	20	02/18/12 08:30	02/19/12 18:31	85-01-8	
Phenol	10.9U	ug/L	101	10.9	20	02/18/12 08:30	02/19/12 18:31	108-95-2	
Pyrene	13.8U	ug/L	101	13.8	20	02/18/12 08:30	02/19/12 18:31	129-00-0	
1,2,4-Trichlorobenzene	16.8U	ug/L	101	16.8	20	02/18/12 08:30	02/19/12 18:31	120-82-1	
2,4,6-Trichlorophenol	14.0U	ug/L	40.5	14.0	20	02/18/12 08:30	02/19/12 18:31	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	57 %		37.3-107.7		20	02/18/12 08:30	02/19/12 18:31	4165-60-0	
2-Fluorobiphenyl (S)	72 %		35.3-102.4		20	02/18/12 08:30	02/19/12 18:31	321-60-8	
Terphenyl-d14 (S)	85 %		50.1-115.1		20	02/18/12 08:30	02/19/12 18:31	1718-51-0	
Phenol-d6 (S)	17 %		10-47.1		20	02/18/12 08:30	02/19/12 18:31	13127-88-3	
2-Fluorophenol (S)	25 %		16.3-59.8		20	02/18/12 08:30	02/19/12 18:31	367-12-4	
2,4,6-Tribromophenol (S)	71 %		54.2-114.4		20	02/18/12 08:30	02/19/12 18:31	118-79-6	
624 Volatile Organics									
Analytical Method: EPA 624									
Acrolein	10.0U	ug/L	20.0	10.0	1		02/18/12 15:23	107-02-8	
Acrylonitrile	5.0U	ug/L	10.0	5.0	1		02/18/12 15:23	107-13-1	
Benzene	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	71-43-2	
Bromodichloromethane	0.30U	ug/L	0.60	0.30	1		02/18/12 15:23	75-27-4	
Bromoform	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	75-25-2	
Bromomethane	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	74-83-9	
Carbon tetrachloride	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	56-23-5	
Chlorobenzene	0.40U	ug/L	1.0	0.40	1		02/18/12 15:23	108-90-7	
Chloroethane	0.61U	ug/L	1.0	0.61	1		02/18/12 15:23	75-00-3	
2-Chloroethylvinyl ether	5.0U	ug/L	10.0	5.0	1		02/18/12 15:23	110-75-8	
Chloroform	2.1	ug/L	1.0	0.50	1		02/18/12 15:23	67-66-3	
Chloromethane	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	74-87-3	
Dibromochloromethane	0.25U	ug/L	0.50	0.25	1		02/18/12 15:23	124-48-1	
1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	75-34-3	
1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	107-06-2	
1,1-Dichloroethene	0.71U	ug/L	1.0	0.71	1		02/18/12 15:23	75-35-4	
trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	156-60-5	
1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	78-87-5	
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	100-41-4	

ANALYTICAL RESULTS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Sample: Influent East Lab ID: 3550290001 Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624							
Methylene Chloride	2.5U	ug/L	5.0	2.5	1		02/18/12 15:23	75-09-2	
1,1,2,2-Tetrachloroethane	0.17U	ug/L	0.50	0.17	1		02/18/12 15:23	79-34-5	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	127-18-4	
Toluene	5.2	ug/L	1.0	0.50	1		02/18/12 15:23	108-88-3	
1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	71-55-6	
1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	79-00-5	
Trichloroethene	0.50U	ug/L	1.0	0.50	1		02/18/12 15:23	79-01-6	
Vinyl chloride	0.53U	ug/L	1.0	0.53	1		02/18/12 15:23	75-01-4	
Surrogates									
Dibromofluoromethane (S)	99 %		88-113		1		02/18/12 15:23	1868-53-7	
4-Bromofluorobenzene (S)	43 %		71-111		1		02/18/12 15:23	460-00-4	J(S5)
Toluene-d8 (S)	95 %		77-116		1		02/18/12 15:23	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		79-123		1		02/18/12 15:23	17060-07-0	
1664 HEM, Oil and Grease		Analytical Method: EPA 1664A							
Oil and Grease	20.3	mg/L	9.1	2.6	1		02/23/12 18:44		



ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Influent West Lab ID: 3550290002 Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
608SF GCS Pesticides and PCBs									
Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
Aldrin	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:21	309-00-2	
alpha-BHC	0.0040U	ug/L	0.010	0.0040	1	02/19/12 09:30	02/22/12 23:21	319-84-6	
beta-BHC	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:21	319-85-7	
delta-BHC	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:21	319-86-8	
gamma-BHC (Lindane)	0.0040U	ug/L	0.010	0.0040	1	02/19/12 09:30	02/22/12 23:21	58-89-9	
Chlordane (Technical)	0.081U	ug/L	0.50	0.081	1	02/19/12 09:30	02/22/12 23:21	57-74-9	
4,4'-DDD	0.0050U	ug/L	0.010	0.0050	1	02/19/12 09:30	02/22/12 23:21	72-54-8	
4,4'-DDE	0.0081U	ug/L	0.010	0.0081	1	02/19/12 09:30	02/22/12 23:21	72-55-9	
4,4'-DDT	0.0050U	ug/L	0.010	0.0050	1	02/19/12 09:30	02/22/12 23:21	50-29-3	
Dieldrin	0.0050U	ug/L	0.010	0.0050	1	02/19/12 09:30	02/22/12 23:21	60-57-1	
Endosulfan I	0.0050U	ug/L	0.010	0.0050	1	02/19/12 09:30	02/22/12 23:21	959-98-8	
Endosulfan II	0.0040U	ug/L	0.010	0.0040	1	02/19/12 09:30	02/22/12 23:21	33213-65-9	
Endosulfan sulfate	0.010U	ug/L	0.010	0.010	1	02/19/12 09:30	02/22/12 23:21	1031-07-8	
Endrin	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:21	72-20-8	
Endrin aldehyde	0.0050U	ug/L	0.0050	0.0050	1	02/19/12 09:30	02/22/12 23:21	7421-93-4	
Heptachlor	0.0081U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:21	76-44-8	
Heptachlor epoxide	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:21	1024-57-3	
PCB-1016 (Aroclor 1016)	0.081U	ug/L	0.50	0.081	1	02/19/12 09:30	02/22/12 23:21	12674-11-2	
PCB-1221 (Aroclor 1221)	0.082U	ug/L	0.50	0.082	1	02/19/12 09:30	02/22/12 23:21	11104-28-2	
PCB-1232 (Aroclor 1232)	0.12U	ug/L	0.50	0.12	1	02/19/12 09:30	02/22/12 23:21	11141-16-5	
PCB-1242 (Aroclor 1242)	0.13U	ug/L	0.50	0.13	1	02/19/12 09:30	02/22/12 23:21	53469-21-9	
PCB-1248 (Aroclor 1248)	0.28U	ug/L	0.50	0.28	1	02/19/12 09:30	02/22/12 23:21	12672-29-6	
PCB-1254 (Aroclor 1254)	0.15U	ug/L	0.50	0.15	1	02/19/12 09:30	02/22/12 23:21	11097-69-1	
PCB-1260 (Aroclor 1260)	0.11U	ug/L	0.50	0.11	1	02/19/12 09:30	02/22/12 23:21	11096-82-5	
Toxaphene	0.37U	ug/L	0.50	0.37	1	02/19/12 09:30	02/22/12 23:21	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	49 %		53-110		1	02/19/12 09:30	02/22/12 23:21	877-09-8	J(S1)
Decachlorobiphenyl (S)	32 %		61-121		1	02/19/12 09:30	02/22/12 23:21	2051-24-3	J(S1)
200.7 MET ICP									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Antimony	5.0U	ug/L	15.0	5.0	1	02/20/12 09:54	02/21/12 07:05	7440-36-0	
Arsenic	5.0U	ug/L	10.0	5.0	1	02/20/12 09:54	02/21/12 07:05	7440-38-2	
Beryllium	0.50U	ug/L	1.0	0.50	1	02/20/12 09:54	02/21/12 07:05	7440-41-7	
Cadmium	0.50U	ug/L	1.0	0.50	1	02/20/12 09:54	02/21/12 07:05	7440-43-9	
Chromium	2.61	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:05	7440-47-3	
Copper	26.4	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:05	7440-50-8	
Lead	5.0U	ug/L	10.0	5.0	1	02/20/12 09:54	02/21/12 07:05	7439-92-1	
Molybdenum	5.0U	ug/L	10.0	5.0	1	02/20/12 09:54	02/21/12 07:05	7439-98-7	
Nickel	2.5U	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:05	7440-02-0	
Selenium	7.5U	ug/L	15.0	7.5	1	02/20/12 09:54	02/21/12 07:05	7782-49-2	
Silver	2.5U	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:05	7440-22-4	
Zinc	70.6	ug/L	20.0	10.0	1	02/20/12 09:54	02/21/12 07:05	7440-66-6	
200.8 MET ICPMS									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Thallium	0.50U	ug/L	1.0	0.50	1	02/20/12 09:54	02/22/12 13:59	7440-28-0	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Sample: Influent West **Lab ID: 3550290002** Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1									
Mercury	0.10U	ug/L	0.20	0.10	1	02/18/12 11:00	02/24/12 14:21	7439-97-6	
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625									
Acenaphthylene	19.3U	ug/L	102	19.3	20	02/18/12 08:30	02/19/12 18:49	208-96-8	
Anthracene	12.2U	ug/L	102	12.2	20	02/18/12 08:30	02/19/12 18:49	120-12-7	
Benzidine	15.7U	ug/L	508	15.7	20	02/18/12 08:30	02/19/12 18:49	92-87-5	
Benzo(a)anthracene	12.8U	ug/L	40.7	12.8	20	02/18/12 08:30	02/19/12 18:49	56-55-3	
Benzo(a)pyrene	11.8U	ug/L	20.3	11.8	20	02/18/12 08:30	02/19/12 18:49	50-32-8	
Benzo(b)fluoranthene	12.6U	ug/L	40.7	12.6	20	02/18/12 08:30	02/19/12 18:49	205-99-2	
Benzo(g,h,i)perylene	13.8U	ug/L	102	13.8	20	02/18/12 08:30	02/19/12 18:49	191-24-2	
Benzo(k)fluoranthene	10.4U	ug/L	81.3	10.4	20	02/18/12 08:30	02/19/12 18:49	207-08-9	
4-Bromophenylphenyl ether	13.8U	ug/L	102	13.6	20	02/18/12 08:30	02/19/12 18:49	101-55-3	
Butylbenzylphthalate	14.6U	ug/L	102	14.6	20	02/18/12 08:30	02/19/12 18:49	85-68-7	
4-Chloro-3-methylphenol	12.6U	ug/L	407	12.6	20	02/18/12 08:30	02/19/12 18:49	59-50-7	
bis(2-Chloroethoxy)methane	60.0U	ug/L	102	60.0	20	02/18/12 08:30	02/19/12 18:49	111-91-1	
bis(2-Chloroethyl) ether	15.3U	ug/L	81.3	15.3	20	02/18/12 08:30	02/19/12 18:49	111-44-4	
bis(2-Chloroisopropyl) ether	14.8U	ug/L	102	14.8	20	02/18/12 08:30	02/19/12 18:49	108-60-1	
2-Chloronaphthalene	16.3U	ug/L	40.7	16.3	20	02/18/12 08:30	02/19/12 18:49	91-58-7	
2-Chlorophenol	13.8U	ug/L	102	13.8	20	02/18/12 08:30	02/19/12 18:49	95-57-8	
4-Chlorophenylphenyl ether	12.8U	ug/L	102	12.8	20	02/18/12 08:30	02/19/12 18:49	7005-72-3	
Chrysene	7.5U	ug/L	102	7.5	20	02/18/12 08:30	02/19/12 18:49	218-01-9	
Dibenz(a,h)anthracene	13.2U	ug/L	40.7	13.2	20	02/18/12 08:30	02/19/12 18:49	53-70-3	
1,2-Dichlorobenzene	13.8U	ug/L	102	13.8	20	02/18/12 08:30	02/19/12 18:49	95-50-1	
1,3-Dichlorobenzene	15.5U	ug/L	102	15.5	20	02/18/12 08:30	02/19/12 18:49	541-73-1	
1,4-Dichlorobenzene	15.7U	ug/L	102	15.7	20	02/18/12 08:30	02/19/12 18:49	106-46-7	
3,3'-Dichlorobenzidine	14.0U	ug/L	203	14.0	20	02/18/12 08:30	02/19/12 18:49	91-94-1	
2,4-Dichlorophenol	11.4U	ug/L	40.7	11.4	20	02/18/12 08:30	02/19/12 18:49	120-83-2	
Diethylphthalate	11.9U	ug/L	102	10.4	20	02/18/12 08:30	02/19/12 18:49	84-66-2	
2,4-Dimethylphenol	32.1U	ug/L	102	32.1	20	02/18/12 08:30	02/19/12 18:49	105-67-9	
Dimethylphthalate	13.0U	ug/L	102	13.0	20	02/18/12 08:30	02/19/12 18:49	131-11-3	
Di-n-butylphthalate	8.3U	ug/L	102	8.3	20	02/18/12 08:30	02/19/12 18:49	84-74-2	
4,6-Dinitro-2-methylphenol	26.8U	ug/L	407	26.8	20	02/18/12 08:30	02/19/12 18:49	534-52-1	
2,4-Dinitrophenol	31.9U	ug/L	285	31.9	20	02/18/12 08:30	02/19/12 18:49	51-28-5	
2,4-Dinitrotoluene	10.8U	ug/L	40.7	10.8	20	02/18/12 08:30	02/19/12 18:49	121-14-2	
2,6-Dinitrotoluene	13.0U	ug/L	81.3	13.0	20	02/18/12 08:30	02/19/12 18:49	606-20-2	
Di-n-octylphthalate	18.3U	ug/L	102	18.3	20	02/18/12 08:30	02/19/12 18:49	117-84-0	
Dioxin Screen	203U	ug/L	203	203	20	02/18/12 08:30	02/19/12 18:49	.....	N2
1,2-Diphenylhydrazine	13.4U	ug/L	102	13.4	20	02/18/12 08:30	02/19/12 18:49	122-66-7	
bis(2-Ethylhexyl)phthalate	119	ug/L	102	16.3	20	02/18/12 08:30	02/19/12 18:49	117-81-7	
Fluoranthene	11.0U	ug/L	102	11.0	20	02/18/12 08:30	02/19/12 18:49	206-44-0	
Fluorene	11.4U	ug/L	102	11.4	20	02/18/12 08:30	02/19/12 18:49	86-73-7	
Hexachloro-1,3-butadiene	22.0U	ug/L	40.7	22.0	20	02/18/12 08:30	02/19/12 18:49	87-68-3	
Hexachlorobenzene	16.3U	ug/L	20.3	16.3	20	02/18/12 08:30	02/19/12 18:49	118-74-1	
Hexachlorocyclopentadiene	26.0U	ug/L	102	26.0	20	02/18/12 08:30	02/19/12 18:49	77-47-4	
Hexachloroethane	14.4U	ug/L	102	14.4	20	02/18/12 08:30	02/19/12 18:49	67-72-1	
Indeno(1,2,3-cd)pyrene	14.8U	ug/L	40.7	14.8	20	02/18/12 08:30	02/19/12 18:49	193-39-5	

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ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Influent West **Lab ID: 3550290002** Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625							
Isophorone	14.8U	ug/L	102	14.8	20	02/18/12 08:30	02/19/12 18:49	78-59-1	
Naphthalene	15.9U	ug/L	102	15.9	20	02/18/12 08:30	02/19/12 18:49	91-20-3	
Nitrobenzene	22.2U	ug/L	81.3	22.2	20	02/18/12 08:30	02/19/12 18:49	98-95-3	
2-Nitrophenol	16.5U	ug/L	102	16.5	20	02/18/12 08:30	02/19/12 18:49	88-75-5	
4-Nitrophenol	22.0U	ug/L	407	22.0	20	02/18/12 08:30	02/19/12 18:49	100-02-7	
N-Nitrosodimethylamine	19.7U	ug/L	40.7	19.7	20	02/18/12 08:30	02/19/12 18:49	62-75-9	
N-Nitroso-di-n-propylamine	19.1U	ug/L	81.3	19.1	20	02/18/12 08:30	02/19/12 18:49	621-64-7	
N-Nitrosodiphenylamine	10.2U	ug/L	102	10.2	20	02/18/12 08:30	02/19/12 18:49	86-30-6	
Pentachlorophenol	13.4U	ug/L	407	13.4	20	02/18/12 08:30	02/19/12 18:49	87-86-5	
Phenanthrene	10.6U	ug/L	102	10.6	20	02/18/12 08:30	02/19/12 18:49	85-01-8	
Phenol	11.0U	ug/L	102	11.0	20	02/18/12 08:30	02/19/12 18:49	108-95-2	
Pyrene	13.8U	ug/L	102	13.8	20	02/18/12 08:30	02/19/12 18:49	129-00-0	
1,2,4-Trichlorobenzene	16.9U	ug/L	102	16.9	20	02/18/12 08:30	02/19/12 18:49	120-82-1	
2,4,6-Trichlorophenol	14.0U	ug/L	40.7	14.0	20	02/18/12 08:30	02/19/12 18:49	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	67 %		37.3-107.7		20	02/18/12 08:30	02/19/12 18:49	4165-60-0	
2-Fluorobiphenyl (S)	82 %		35.3-102.4		20	02/18/12 08:30	02/19/12 18:49	321-60-8	
Terphenyl-d14 (S)	94 %		50.1-115.1		20	02/18/12 08:30	02/19/12 18:49	1718-51-0	
Phenol-d6 (S)	17 %		10-47.1		20	02/18/12 08:30	02/19/12 18:49	13127-88-3	
2-Fluorophenol (S)	28 %		16.3-59.8		20	02/18/12 08:30	02/19/12 18:49	367-12-4	
2,4,6-Tribromophenol (S)	81 %		54.2-114.4		20	02/18/12 08:30	02/19/12 18:49	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624							
Acrolein	10.0U	ug/L	20.0	10.0	1		02/18/12 16:35	107-02-8	
Acrylonitrile	5.0U	ug/L	10.0	5.0	1		02/18/12 16:35	107-13-1	
Benzene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	71-43-2	
Bromodichloromethane	0.30U	ug/L	0.60	0.30	1		02/18/12 16:35	75-27-4	
Bromoform	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	75-25-2	
Bromomethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	74-83-9	
Carbon tetrachloride	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	56-23-5	
Chlorobenzene	0.40U	ug/L	1.0	0.40	1		02/18/12 16:35	108-90-7	
Chloroethane	0.61U	ug/L	1.0	0.61	1		02/18/12 16:35	75-00-3	
2-Chloroethylvinyl ether	5.0U	ug/L	10.0	5.0	1		02/18/12 16:35	110-75-8	
Chloroform	3.3	ug/L	1.0	0.50	1		02/18/12 16:35	67-66-3	
Chloromethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	74-87-3	
Dibromochloromethane	0.25U	ug/L	0.50	0.25	1		02/18/12 16:35	124-48-1	
1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	75-34-3	
1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	107-06-2	
1,1-Dichloroethene	0.71U	ug/L	1.0	0.71	1		02/18/12 16:35	75-35-4	
trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	156-60-5	
1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	78-87-5	
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	100-41-4	

ANALYTICAL RESULTS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Sample: Influent West **Lab ID: 3550290002** Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624							
Methylene Chloride	2.5U	ug/L	5.0	2.5	1		02/18/12 16:35	75-09-2	
1,1,2,2-Tetrachloroethane	0.17U	ug/L	0.50	0.17	1		02/18/12 16:35	79-34-5	
Tetrachloroethene	0.76 I	ug/L	1.0	0.50	1		02/18/12 16:35	127-18-4	
Toluene	0.93 I	ug/L	1.0	0.50	1		02/18/12 16:35	108-88-3	
1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	71-55-6	
1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	79-00-5	
Trichloroethene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:35	79-01-6	
Vinyl chloride	0.53U	ug/L	1.0	0.53	1		02/18/12 16:35	75-01-4	
Surrogates									
Dibromofluoromethane (S)	108 %		88-113		1		02/18/12 16:35	1868-53-7	
4-Bromofluorobenzene (S)	11 %		71-111		1		02/18/12 16:35	480-00-4	J(S5)
Toluene-d8 (S)	99 %		77-116		1		02/18/12 16:35	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		79-123		1		02/18/12 16:35	17060-07-0	
1664 HEM, Oil and Grease		Analytical Method: EPA 1664A							
Oil and Grease	19.7	mg/L	9.2	2.6	1		02/23/12 18:45		



ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Combined Effluent Lab ID: 3550290003 Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
608SF GCS Pesticides and PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
Aldrin	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:42	309-00-2	
alpha-BHC	0.0040U	ug/L	0.010	0.0040	1	02/19/12 09:30	02/22/12 23:42	319-84-6	
beta-BHC	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:42	319-85-7	
delta-BHC	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:42	319-86-8	
gamma-BHC (Lindane)	0.0040U	ug/L	0.010	0.0040	1	02/19/12 09:30	02/22/12 23:42	58-89-9	
Chlordane (Technical)	0.081U	ug/L	0.51	0.081	1	02/19/12 09:30	02/22/12 23:42	57-74-9	
4,4'-DDD	0.0051U	ug/L	0.010	0.0051	1	02/19/12 09:30	02/22/12 23:42	72-54-8	
4,4'-DDE	0.0081U	ug/L	0.010	0.0081	1	02/19/12 09:30	02/22/12 23:42	72-55-9	
4,4'-DDT	0.0051U	ug/L	0.010	0.0051	1	02/19/12 09:30	02/22/12 23:42	50-29-3	
Dieldrin	0.0051U	ug/L	0.010	0.0051	1	02/19/12 09:30	02/22/12 23:42	60-57-1	
Endosulfan I	0.0051U	ug/L	0.010	0.0051	1	02/19/12 09:30	02/22/12 23:42	959-98-8	
Endosulfan II	0.0040U	ug/L	0.010	0.0040	1	02/19/12 09:30	02/22/12 23:42	33213-65-9	
Endosulfan sulfate	0.010U	ug/L	0.010	0.010	1	02/19/12 09:30	02/22/12 23:42	1031-07-8	
Endrin	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:42	72-20-8	
Endrin aldehyde	0.0051U	ug/L	0.0051	0.0051	1	02/19/12 09:30	02/22/12 23:42	7421-93-4	
Heptachlor	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:42	76-44-8	
Heptachlor epoxide	0.0061U	ug/L	0.010	0.0061	1	02/19/12 09:30	02/22/12 23:42	1024-57-3	
PCB-1016 (Aroclor 1016)	0.081U	ug/L	0.51	0.081	1	02/19/12 09:30	02/22/12 23:42	12674-11-2	
PCB-1221 (Aroclor 1221)	0.082U	ug/L	0.51	0.082	1	02/19/12 09:30	02/22/12 23:42	11104-28-2	
PCB-1232 (Aroclor 1232)	0.12U	ug/L	0.51	0.12	1	02/19/12 09:30	02/22/12 23:42	11141-16-5	
PCB-1242 (Aroclor 1242)	0.13U	ug/L	0.51	0.13	1	02/19/12 09:30	02/22/12 23:42	53469-21-9	
PCB-1248 (Aroclor 1248)	0.28U	ug/L	0.51	0.28	1	02/19/12 09:30	02/22/12 23:42	12672-29-6	
PCB-1254 (Aroclor 1254)	0.15U	ug/L	0.51	0.15	1	02/19/12 09:30	02/22/12 23:42	11097-69-1	
PCB-1260 (Aroclor 1260)	0.11U	ug/L	0.51	0.11	1	02/19/12 09:30	02/22/12 23:42	11096-82-5	
Toxaphene	0.37U	ug/L	0.51	0.37	1	02/19/12 09:30	02/22/12 23:42	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	64 %		53-110		1	02/19/12 09:30	02/22/12 23:42	877-09-8	
Decachlorobiphenyl (S)	48 %		61-121		1	02/19/12 09:30	02/22/12 23:42	2051-24-3	J(S1)
200.7 MET ICP Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Antimony	5.0U	ug/L	15.0	5.0	1	02/20/12 09:54	02/21/12 07:09	7440-36-0	
Arsenic	5.0U	ug/L	10.0	5.0	1	02/20/12 09:54	02/21/12 07:09	7440-38-2	
Beryllium	0.50U	ug/L	1.0	0.50	1	02/20/12 09:54	02/21/12 07:09	7440-41-7	
Cadmium	0.50U	ug/L	1.0	0.50	1	02/20/12 09:54	02/21/12 07:09	7440-43-9	
Chromium	2.5U	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:09	7440-47-3	
Copper	2.5U	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:09	7440-50-8	
Lead	5.0U	ug/L	10.0	5.0	1	02/20/12 09:54	02/21/12 07:09	7439-92-1	
Molybdenum	5.0U	ug/L	10.0	5.0	1	02/20/12 09:54	02/21/12 07:09	7439-98-7	
Nickel	2.5U	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:09	7440-02-0	
Selenium	7.5U	ug/L	15.0	7.5	1	02/20/12 09:54	02/21/12 07:09	7782-49-2	
Silver	2.5U	ug/L	5.0	2.5	1	02/20/12 09:54	02/21/12 07:09	7440-22-4	
Zinc	10.41	ug/L	20.0	10.0	1	02/20/12 09:54	02/21/12 07:09	7440-66-6	
200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Thallium	0.50U	ug/L	1.0	0.50	1	02/20/12 09:54	02/22/12 14:09	7440-28-0	



ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Combined Effluent Lab ID: 3550290003 Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1									
Mercury	0.10U	ug/L	0.20	0.10	1	02/18/12 11:00	02/24/12 14:24	7439-97-6	
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625									
Acenaphthylene	0.95U	ug/L	5.0	0.95	1	02/18/12 08:30	02/19/12 17:20	208-96-8	
Anthracene	0.60U	ug/L	5.0	0.60	1	02/18/12 08:30	02/19/12 17:20	120-12-7	
Benzidine	0.77U	ug/L	25.1	0.77	1	02/18/12 08:30	02/19/12 17:20	92-87-5	
Benzo(a)anthracene	0.63U	ug/L	2.0	0.63	1	02/18/12 08:30	02/19/12 17:20	56-55-3	
Benzo(a)pyrene	0.58U	ug/L	1.0	0.58	1	02/18/12 08:30	02/19/12 17:20	50-32-8	
Benzo(b)fluoranthene	0.62U	ug/L	2.0	0.62	1	02/18/12 08:30	02/19/12 17:20	205-99-2	
Benzo(g,h,i)perylene	0.68U	ug/L	5.0	0.68	1	02/18/12 08:30	02/19/12 17:20	191-24-2	
Benzo(k)fluoranthene	0.51U	ug/L	4.0	0.51	1	02/18/12 08:30	02/19/12 17:20	207-08-9	
4-Bromophenylphenyl ether	0.67U	ug/L	5.0	0.67	1	02/18/12 08:30	02/19/12 17:20	101-55-3	
Butylbenzylphthalate	0.72U	ug/L	5.0	0.72	1	02/18/12 08:30	02/19/12 17:20	85-68-7	
4-Chloro-3-methylphenol	0.62U	ug/L	20.1	0.62	1	02/18/12 08:30	02/19/12 17:20	59-50-7	
bis(2-Chloroethoxy)methane	3.0U	ug/L	5.0	3.0	1	02/18/12 08:30	02/19/12 17:20	111-91-1	
bis(2-Chloroethyl) ether	0.75U	ug/L	4.0	0.75	1	02/18/12 08:30	02/19/12 17:20	111-44-4	
bis(2-Chloroisopropyl) ether	0.73U	ug/L	5.0	0.73	1	02/18/12 08:30	02/19/12 17:20	108-60-1	
2-Chloronaphthalene	0.80U	ug/L	2.0	0.80	1	02/18/12 08:30	02/19/12 17:20	91-58-7	
2-Chlorophenol	0.68U	ug/L	5.0	0.68	1	02/18/12 08:30	02/19/12 17:20	95-57-8	
4-Chlorophenylphenyl ether	0.63U	ug/L	5.0	0.63	1	02/18/12 08:30	02/19/12 17:20	7005-72-3	
Chrysene	0.37U	ug/L	5.0	0.37	1	02/18/12 08:30	02/19/12 17:20	218-01-9	
Dibenz(a,h)anthracene	0.65U	ug/L	2.0	0.65	1	02/18/12 08:30	02/19/12 17:20	53-70-3	
1,2-Dichlorobenzene	0.88U	ug/L	5.0	0.68	1	02/18/12 08:30	02/19/12 17:20	95-50-1	
1,3-Dichlorobenzene	0.76U	ug/L	5.0	0.76	1	02/18/12 08:30	02/19/12 17:20	541-73-1	
1,4-Dichlorobenzene	0.77U	ug/L	5.0	0.77	1	02/18/12 08:30	02/19/12 17:20	106-46-7	
3,3'-Dichlorobenzidine	0.69U	ug/L	10.0	0.69	1	02/18/12 08:30	02/19/12 17:20	91-94-1	
2,4-Dichlorophenol	0.56U	ug/L	2.0	0.56	1	02/18/12 08:30	02/19/12 17:20	120-83-2	
Diethylphthalate	2.2	ug/L	5.0	0.51	1	02/18/12 08:30	02/19/12 17:20	84-66-2	
2,4-Dimethylphenol	1.6U	ug/L	5.0	1.6	1	02/18/12 08:30	02/19/12 17:20	105-67-9	
Dimethylphthalate	0.64U	ug/L	5.0	0.64	1	02/18/12 08:30	02/19/12 17:20	131-11-3	
Di-n-butylphthalate	0.41U	ug/L	5.0	0.41	1	02/18/12 08:30	02/19/12 17:20	84-74-2	
4,6-Dinitro-2-methylphenol	1.3U	ug/L	20.1	1.3	1	02/18/12 08:30	02/19/12 17:20	534-52-1	
2,4-Dinitrophenol	1.6U	ug/L	14.0	1.6	1	02/18/12 08:30	02/19/12 17:20	51-28-5	
2,4-Dinitrotoluene	0.53U	ug/L	2.0	0.53	1	02/18/12 08:30	02/19/12 17:20	121-14-2	
2,6-Dinitrotoluene	0.64U	ug/L	4.0	0.64	1	02/18/12 08:30	02/19/12 17:20	606-20-2	
Di-n-octylphthalate	0.90U	ug/L	5.0	0.90	1	02/18/12 08:30	02/19/12 17:20	117-84-0	
Dioxin Screen	10.0U	ug/L	10.0	10.0	1	02/18/12 08:30	02/19/12 17:20	.....	N2
1,2-Diphenylhydrazine	0.86U	ug/L	5.0	0.66	1	02/18/12 08:30	02/19/12 17:20	122-66-7	
bis(2-Ethylhexyl)phthalate	25.4	ug/L	5.0	0.80	1	02/18/12 08:30	02/19/12 17:20	117-81-7	
Fluoranthene	0.54U	ug/L	5.0	0.54	1	02/18/12 08:30	02/19/12 17:20	206-44-0	
Fluorene	0.56U	ug/L	5.0	0.56	1	02/18/12 08:30	02/19/12 17:20	86-73-7	
Hexachloro-1,3-butadiene	1.1U	ug/L	2.0	1.1	1	02/18/12 08:30	02/19/12 17:20	87-68-3	
Hexachlorobenzene	0.80U	ug/L	1.0	0.80	1	02/18/12 08:30	02/19/12 17:20	118-74-1	
Hexachlorocyclopentadiene	1.3U	ug/L	5.0	1.3	1	02/18/12 08:30	02/19/12 17:20	77-47-4	
Hexachloroethane	0.71U	ug/L	5.0	0.71	1	02/18/12 08:30	02/19/12 17:20	67-72-1	
Indeno(1,2,3-cd)pyrene	0.73U	ug/L	2.0	0.73	1	02/18/12 08:30	02/19/12 17:20	193-39-5	

Date: 02/27/2012 04:40 PM

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ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Combined Effluent Lab ID: 3550290003 Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625									
Isophorone	0.73U	ug/L	5.0	0.73	1	02/18/12 08:30	02/19/12 17:20	78-59-1	
Naphthalene	0.78U	ug/L	5.0	0.78	1	02/18/12 08:30	02/19/12 17:20	91-20-3	
Nitrobenzene	1.1U	ug/L	4.0	1.1	1	02/18/12 08:30	02/19/12 17:20	98-95-3	
2-Nitrophenol	0.81U	ug/L	5.0	0.81	1	02/18/12 08:30	02/19/12 17:20	88-75-5	
4-Nitrophenol	1.1U	ug/L	20.1	1.1	1	02/18/12 08:30	02/19/12 17:20	100-02-7	
N-Nitrosodimethylamine	0.97U	ug/L	2.0	0.97	1	02/18/12 08:30	02/19/12 17:20	62-75-9	
N-Nitroso-di-n-propylamine	0.94U	ug/L	4.0	0.94	1	02/18/12 08:30	02/19/12 17:20	621-64-7	
N-Nitrosodiphenylamine	0.50U	ug/L	5.0	0.50	1	02/18/12 08:30	02/19/12 17:20	86-30-6	
Pentachlorophenol	0.66U	ug/L	20.1	0.66	1	02/18/12 08:30	02/19/12 17:20	87-86-5	
Phenanthrene	0.52U	ug/L	5.0	0.52	1	02/18/12 08:30	02/19/12 17:20	85-01-8	
Phenol	0.54U	ug/L	5.0	0.54	1	02/18/12 08:30	02/19/12 17:20	108-95-2	
Pyrene	0.68U	ug/L	5.0	0.68	1	02/18/12 08:30	02/19/12 17:20	129-00-0	
1,2,4-Trichlorobenzene	0.83U	ug/L	5.0	0.83	1	02/18/12 08:30	02/19/12 17:20	120-82-1	
2,4,6-Trichlorophenol	0.69U	ug/L	2.0	0.69	1	02/18/12 08:30	02/19/12 17:20	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	54 %		37.3-107.7		1	02/18/12 08:30	02/19/12 17:20	4165-60-0	
2-Fluorobiphenyl (S)	59 %		35.3-102.4		1	02/18/12 08:30	02/19/12 17:20	321-60-8	
Terphenyl-d14 (S)	95 %		50.1-115.1		1	02/18/12 08:30	02/19/12 17:20	1718-51-0	
Phenol-d6 (S)	17 %		10-47.1		1	02/18/12 08:30	02/19/12 17:20	13127-88-3	
2-Fluorophenol (S)	27 %		16.3-59.8		1	02/18/12 08:30	02/19/12 17:20	367-12-4	
2,4,6-Tribromophenol (S)	75 %		54.2-114.4		1	02/18/12 08:30	02/19/12 17:20	118-79-6	
624 Volatile Organics Analytical Method: EPA 624									
Acrolein	10.0U	ug/L	20.0	10.0	1		02/18/12 16:11	107-02-8	
Acrylonitrile	5.0U	ug/L	10.0	5.0	1		02/18/12 16:11	107-13-1	
Benzene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	71-43-2	
Bromodichloromethane	1.8	ug/L	0.60	0.30	1		02/18/12 16:11	75-27-4	
Bromoform	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	75-25-2	
Bromomethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	74-83-9	
Carbon tetrachloride	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	56-23-5	
Chlorobenzene	0.40U	ug/L	1.0	0.40	1		02/18/12 16:11	108-90-7	
Chloroethane	0.61U	ug/L	1.0	0.61	1		02/18/12 16:11	75-00-3	
2-Chloroethylvinyl ether	5.0U	ug/L	10.0	5.0	1		02/18/12 16:11	110-75-8	
Chloroform	4.1	ug/L	1.0	0.50	1		02/18/12 16:11	67-66-3	
Chloromethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	74-87-3	
Dibromochloromethane	0.25U	ug/L	0.50	0.25	1		02/18/12 16:11	124-48-1	
1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	75-34-3	
1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	107-06-2	
1,1-Dichloroethene	0.71U	ug/L	1.0	0.71	1		02/18/12 16:11	75-35-4	
trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	156-60-5	
1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	78-87-5	
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	100-41-4	

ANALYTICAL RESULTS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Sample: Combined Effluent Lab ID: 3550290003 Collected: 02/15/12 23:00 Received: 02/17/12 13:07 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624							
Methylene Chloride	2.5U	ug/L	5.0	2.5	1		02/18/12 16:11	75-09-2	
1,1,2,2-Tetrachloroethane	0.17U	ug/L	0.50	0.17	1		02/18/12 16:11	79-34-5	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	127-18-4	
Toluene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	108-88-3	
1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	71-55-6	
1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	79-00-5	
Trichloroethene	0.50U	ug/L	1.0	0.50	1		02/18/12 16:11	79-01-6	
Vinyl chloride	0.53U	ug/L	1.0	0.53	1		02/18/12 16:11	75-01-4	
Surrogates									
Dibromofluoromethane (S)	101	%	88-113		1		02/18/12 16:11	1868-53-7	
4-Bromofluorobenzene (S)	27	%	71-111		1		02/18/12 16:11	460-00-4	J(S5)
Toluene-d8 (S)	90	%	77-116		1		02/18/12 16:11	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	79-123		1		02/18/12 16:11	17060-07-0	
1664 HEM, Oil and Grease		Analytical Method: EPA 1664A							
Oil and Grease	1.4U	mg/L	5.1	1.4	1		02/23/12 18:45		



ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Cake Lab ID: 3550290004 Collected: 02/16/12 10:40 Received: 02/17/12 13:07 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides									
Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	1.1U	ug/kg	33.5	1.1	1	02/22/12 02:30	02/22/12 17:49	309-00-2	
alpha-BHC	1.4U	ug/kg	33.5	1.4	1	02/22/12 02:30	02/22/12 17:49	319-84-6	
beta-BHC	1.5U	ug/kg	33.5	1.5	1	02/22/12 02:30	02/22/12 17:49	319-85-7	
delta-BHC	1.7U	ug/kg	33.5	1.7	1	02/22/12 02:30	02/22/12 17:49	319-86-8	
gamma-BHC (Lindane)	2.9U	ug/kg	33.5	2.9	1	02/22/12 02:30	02/22/12 17:49	58-89-9	
Chlordane (Technical)	312U	ug/kg	335	312	1	02/22/12 02:30	02/22/12 17:49	57-74-9	
4,4'-DDD	2.6U	ug/kg	33.5	2.6	1	02/22/12 02:30	02/22/12 17:49	72-54-8	
4,4'-DDE	11.3U	ug/kg	33.5	1.2	1	02/22/12 02:30	02/22/12 17:49	72-55-9	
4,4'-DDT	1.9U	ug/kg	33.5	1.9	1	02/22/12 02:30	02/22/12 17:49	50-29-3	
Dieldrin	0.79U	ug/kg	33.5	0.79	1	02/22/12 02:30	02/22/12 17:49	60-57-1	
Endosulfan I	0.49U	ug/kg	33.5	0.49	1	02/22/12 02:30	02/22/12 17:49	959-98-8	
Endosulfan II	1.1U	ug/kg	33.5	1.1	1	02/22/12 02:30	02/22/12 17:49	33213-65-9	
Endosulfan sulfate	0.85U	ug/kg	33.5	0.85	1	02/22/12 02:30	02/22/12 17:49	1031-07-8	
Endrin	1.0U	ug/kg	33.5	1.0	1	02/22/12 02:30	02/22/12 17:49	72-20-8	
Endrin aldehyde	1.3U	ug/kg	33.5	1.3	1	02/22/12 02:30	02/22/12 17:49	7421-93-4	
Endrin ketone	1.6U	ug/kg	33.5	1.6	1	02/22/12 02:30	02/22/12 17:49	53494-70-5	
Heptachlor	0.77U	ug/kg	33.5	0.77	1	02/22/12 02:30	02/22/12 17:49	76-44-8	
Heptachlor epoxide	2.2U	ug/kg	33.5	2.2	1	02/22/12 02:30	02/22/12 17:49	1024-57-3	
Methoxychlor	20.7U	ug/kg	33.5	20.7	1	02/22/12 02:30	02/22/12 17:49	72-43-5	
Toxaphene	145U	ug/kg	335	145	1	02/22/12 02:30	02/22/12 17:49	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	104 %		70-130		1	02/22/12 02:30	02/22/12 17:49	877-09-8	
Decachlorobiphenyl (S)	92 %		70-130		1	02/22/12 02:30	02/22/12 17:49	2051-24-3	
8081 GCS Pesticides, TCLP									
Analytical Method: EPA 8081 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 02/21/12 23:15									
gamma-BHC (Lindane)	0.00050U	mg/L	0.0010	0.00050	1	02/23/12 21:00	02/24/12 18:39	58-89-9	
Chlordane (Technical)	0.0025U	mg/L	0.0050	0.0025	1	02/23/12 21:00	02/24/12 18:39	57-74-9	
Endrin	0.00050U	mg/L	0.0010	0.00050	1	02/23/12 21:00	02/24/12 18:39	72-20-8	
Heptachlor	0.00050U	mg/L	0.0010	0.00050	1	02/23/12 21:00	02/24/12 18:39	76-44-8	
Heptachlor epoxide	0.00050U	mg/L	0.0010	0.00050	1	02/23/12 21:00	02/24/12 18:39	1024-57-3	
Methoxychlor	0.00050U	mg/L	0.0010	0.00050	1	02/23/12 21:00	02/24/12 18:39	72-43-5	
Toxaphene	0.0025U	mg/L	0.0050	0.0025	1	02/23/12 21:00	02/24/12 18:39	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	69 %		70-130		1	02/23/12 21:00	02/24/12 18:39	2051-24-3	J(S1)
Tetrachloro-m-xylene (S)	77 %		70-130		1	02/23/12 21:00	02/24/12 18:39	877-09-8	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	203U	ug/kg	335	203	1	02/22/12 02:30	02/22/12 16:40	12674-11-2	J(M1)
PCB-1221 (Aroclor 1221)	158U	ug/kg	335	158	1	02/22/12 02:30	02/22/12 16:40	11104-28-2	
PCB-1232 (Aroclor 1232)	167U	ug/kg	335	167	1	02/22/12 02:30	02/22/12 16:40	11141-16-5	
PCB-1242 (Aroclor 1242)	55.1U	ug/kg	335	55.1	1	02/22/12 02:30	02/22/12 16:40	53469-21-9	
PCB-1248 (Aroclor 1248)	212U	ug/kg	335	212	1	02/22/12 02:30	02/22/12 16:40	12672-29-6	
PCB-1254 (Aroclor 1254)	135U	ug/kg	335	135	1	02/22/12 02:30	02/22/12 16:40	11097-69-1	
PCB-1260 (Aroclor 1260)	204U	ug/kg	335	204	1	02/22/12 02:30	02/22/12 16:40	11096-82-5	

Date: 02/27/2012 04:40 PM

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ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Cake Lab ID: 3550290004 Collected: 02/16/12 10:40 Received: 02/17/12 13:07 Matrix: Solid
 Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546									
Surrogates									
Tetrachloro-m-xylene (S)	112 %		19.6-135		1	02/22/12 02:30	02/22/12 16:40	877-09-8	
Decachlorobiphenyl (S)	123 %		24.5-162		1	02/22/12 02:30	02/22/12 16:40	2051-24-3	
8151 Chlorinate Herbicide TCLP Analytical Method: EPA 8151 Preparation Method: EPA 3510									
2,4-D	0.034U mg/L		0.068	0.034	1	02/22/12 07:30	02/23/12 02:10	94-75-7	
2,4,5-TP (Silvex)	0.034U mg/L		0.068	0.034	1	02/22/12 07:30	02/23/12 02:10	93-72-1	
Surrogates									
2,4-DCAA (S)	99 %		70-130		1	02/22/12 07:30	02/23/12 02:10	19719-28-9	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Antimony	3.7 I mg/kg		4.8	2.4	1	02/21/12 11:07	02/22/12 16:48	7440-36-0	
Arsenic	5.1 mg/kg		3.2	1.6	1	02/21/12 11:07	02/22/12 16:48	7440-38-2	
Beryllium	0.16U mg/kg		0.32	0.16	1	02/21/12 11:07	02/22/12 16:48	7440-41-7	
Cadmium	2.1 mg/kg		0.32	0.16	1	02/21/12 11:07	02/22/12 16:48	7440-43-9	
Chromium	30.7 mg/kg		1.6	0.80	1	02/21/12 11:07	02/22/12 16:48	7440-47-3	
Copper	467 mg/kg		1.6	0.80	1	02/21/12 11:07	02/22/12 16:48	7440-50-8	
Lead	29.6 mg/kg		3.2	1.6	1	02/21/12 11:07	02/22/12 16:48	7439-92-1	
Nickel	16.1 mg/kg		1.6	0.80	1	02/21/12 11:07	02/22/12 16:48	7440-02-0	
Selenium	12.0 mg/kg		4.8	2.4	1	02/21/12 11:07	02/22/12 16:48	7782-49-2	
Silver	8.6 mg/kg		1.6	0.80	1	02/21/12 11:07	02/22/12 16:48	7440-22-4	
Thallium	2.4U mg/kg		4.8	2.4	1	02/21/12 11:07	02/22/12 16:48	7440-28-0	
Zinc	1330 mg/kg		6.4	3.2	1	02/21/12 11:07	02/22/12 16:48	7440-66-6	
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 02/21/12 23:15									
Arsenic	0.10U mg/L		0.20	0.10	1	02/22/12 04:00	02/23/12 01:40	7440-38-2	
Barium	0.10U mg/L		0.20	0.10	1	02/22/12 04:00	02/23/12 01:40	7440-39-3	
Cadmium	0.010U mg/L		0.020	0.010	1	02/22/12 04:00	02/23/12 01:40	7440-43-9	
Chromium	0.050U mg/L		0.10	0.050	1	02/22/12 04:00	02/23/12 01:40	7440-47-3	
Lead	0.050U mg/L		0.10	0.050	1	02/22/12 04:00	02/23/12 01:40	7439-92-1	
Selenium	0.10U mg/L		0.20	0.10	1	02/22/12 04:00	02/23/12 01:40	7782-49-2	
Silver	0.050U mg/L		0.10	0.050	1	02/22/12 04:00	02/23/12 01:40	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 02/21/12 23:15									
Mercury	0.0010U mg/L		0.0020	0.0010	1	02/22/12 05:00	02/23/12 13:53	7439-97-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.92 mg/kg		0.10	0.052	1	02/22/12 01:45	02/22/12 10:55	7439-97-6	J(M1)
8270 MSSV Full List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthylene	80.0U ug/kg		676	80.0	1	02/23/12 02:30	02/23/12 12:50	208-96-8	
Anthracene	41.9U ug/kg		676	41.9	1	02/23/12 02:30	02/23/12 12:50	120-12-7	

Date: 02/27/2012 04:40 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Cake Lab ID: 3550290004 Collected: 02/16/12 10:40 Received: 02/17/12 13:07 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Benzidine	381U	ug/kg	17000	381	1	02/23/12 02:30	02/23/12 12:50	92-87-5	
Benzo(a)anthracene	659 I	ug/kg	676	60.5	1	02/23/12 02:30	02/23/12 12:50	56-55-3	
Benzo(a)pyrene	712	ug/kg	676	74.0	1	02/23/12 02:30	02/23/12 12:50	50-32-8	
Benzo(b)fluoranthene	847	ug/kg	676	47.5	1	02/23/12 02:30	02/23/12 12:50	205-99-2	
Benzo(g,h,i)perylene	62.4U	ug/kg	676	62.4	1	02/23/12 02:30	02/23/12 12:50	191-24-2	
Benzo(k)fluoranthene	714	ug/kg	676	101	1	02/23/12 02:30	02/23/12 12:50	207-08-9	
4-Bromophenylphenyl ether	399U	ug/kg	3480	399	1	02/23/12 02:30	02/23/12 12:50	101-55-3	
Butylbenzylphthalate	391U	ug/kg	3480	391	1	02/23/12 02:30	02/23/12 12:50	85-68-7	
4-Chloro-3-methylphenol	422U	ug/kg	13700	422	1	02/23/12 02:30	02/23/12 12:50	59-50-7	
bis(2-Chloroethoxy)methane	559U	ug/kg	3480	559	1	02/23/12 02:30	02/23/12 12:50	111-91-1	
bis(2-Chloroethyl) ether	534U	ug/kg	3480	534	1	02/23/12 02:30	02/23/12 12:50	111-44-4	
bis(2-Chloroisopropyl) ether	549U	ug/kg	3480	549	1	02/23/12 02:30	02/23/12 12:50	108-60-1	
2-Chloronaphthalene	618U	ug/kg	3480	618	1	02/23/12 02:30	02/23/12 12:50	91-58-7	
2-Chlorophenol	616U	ug/kg	3480	516	1	02/23/12 02:30	02/23/12 12:50	95-57-8	
4-Chlorophenylphenyl ether	438U	ug/kg	3480	438	1	02/23/12 02:30	02/23/12 12:50	7005-72-3	
Chrysene	873	ug/kg	676	60.5	1	02/23/12 02:30	02/23/12 12:50	218-01-9	
Dibenz(a,h)anthracene	72.2U	ug/kg	676	72.2	1	02/23/12 02:30	02/23/12 12:50	53-70-3	
1,2-Dichlorobenzene	516U	ug/kg	3480	516	1	02/23/12 02:30	02/23/12 12:50	95-50-1	
1,3-Dichlorobenzene	489U	ug/kg	3480	489	1	02/23/12 02:30	02/23/12 12:50	541-73-1	
1,4-Dichlorobenzene	502U	ug/kg	3480	502	1	02/23/12 02:30	02/23/12 12:50	106-46-7	
3,3'-Dichlorobenzidine	364U	ug/kg	13700	364	1	02/23/12 02:30	02/23/12 12:50	91-94-1	
2,4-Dichlorophenol	471U	ug/kg	3480	471	1	02/23/12 02:30	02/23/12 12:50	120-83-2	
Diethylphthalate	479U	ug/kg	3480	479	1	02/23/12 02:30	02/23/12 12:50	84-66-2	
2,4-Dimethylphenol	626U	ug/kg	3480	626	1	02/23/12 02:30	02/23/12 12:50	105-67-9	
Dimethylphthalate	2350 I	ug/kg	3480	366	1	02/23/12 02:30	02/23/12 12:50	131-11-3	
Di-n-butylphthalate	444U	ug/kg	3480	444	1	02/23/12 02:30	02/23/12 12:50	84-74-2	
4,6-Dinitro-2-methylphenol	385U	ug/kg	13700	385	1	02/23/12 02:30	02/23/12 12:50	534-52-1	
2,4-Dinitrophenol	350U	ug/kg	13700	350	1	02/23/12 02:30	02/23/12 12:50	51-28-5	
2,4-Dinitrotoluene	420U	ug/kg	3480	420	1	02/23/12 02:30	02/23/12 12:50	121-14-2	
2,6-Dinitrotoluene	348U	ug/kg	3480	348	1	02/23/12 02:30	02/23/12 12:50	606-20-2	
Di-n-octylphthalate	356U	ug/kg	3480	356	1	02/23/12 02:30	02/23/12 12:50	117-84-0	
bis(2-Ethylhexyl)phthalate	1600U	ug/kg	3480	508	1	02/23/12 02:30	02/23/12 12:50	117-81-7	
Fluoranthene	1150	ug/kg	676	75.8	1	02/23/12 02:30	02/23/12 12:50	206-44-0	
Fluorene	50.8U	ug/kg	676	50.8	1	02/23/12 02:30	02/23/12 12:50	86-73-7	
Hexachloro-1,3-butadiene	495U	ug/kg	3480	495	1	02/23/12 02:30	02/23/12 12:50	87-68-3	
Hexachlorobenzene	393U	ug/kg	3480	393	1	02/23/12 02:30	02/23/12 12:50	118-74-1	
Hexachlorocyclopentadiene	491U	ug/kg	13700	491	1	02/23/12 02:30	02/23/12 12:50	77-47-4	
Hexachloroethane	633U	ug/kg	3480	633	1	02/23/12 02:30	02/23/12 12:50	67-72-1	
Indeno(1,2,3-cd)pyrene	71.9U	ug/kg	676	71.9	1	02/23/12 02:30	02/23/12 12:50	193-39-5	
Isophorone	514U	ug/kg	3480	514	1	02/23/12 02:30	02/23/12 12:50	78-59-1	
2-Methylphenol(o-Cresol)	508U	ug/kg	3480	508	1	02/23/12 02:30	02/23/12 12:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	1040U	ug/kg	3480	1040	1	02/23/12 02:30	02/23/12 12:50		
Naphthalene	72.1U	ug/kg	676	72.1	1	02/23/12 02:30	02/23/12 12:50	91-20-3	
Nitrobenzene	549U	ug/kg	3480	549	1	02/23/12 02:30	02/23/12 12:50	98-95-3	
2-Nitrophenol	563U	ug/kg	3480	563	1	02/23/12 02:30	02/23/12 12:50	88-75-5	

ANALYTICAL RESULTS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Sample: Cake Lab ID: 3550290004 Collected: 02/16/12 10:40 Received: 02/17/12 13:07 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
4-Nitrophenol	518U	ug/kg	3480	518	1	02/23/12 02:30	02/23/12 12:50	100-02-7	
N-Nitrosodimethylamine	520U	ug/kg	3480	520	1	02/23/12 02:30	02/23/12 12:50	62-75-9	N2
N-Nitroso-di-n-propylamine	495U	ug/kg	3480	495	1	02/23/12 02:30	02/23/12 12:50	621-64-7	
N-Nitrosodiphenylamine	422U	ug/kg	3480	422	1	02/23/12 02:30	02/23/12 12:50	86-30-6	
Pentachlorophenol	440U	ug/kg	13700	440	1	02/23/12 02:30	02/23/12 12:50	87-86-5	
Phenanthrene	64.2U	ug/kg	676	64.2	1	02/23/12 02:30	02/23/12 12:50	85-01-8	
Phenol	3250 I	ug/kg	3480	643	1	02/23/12 02:30	02/23/12 12:50	108-95-2	
Pyrene	1330	ug/kg	676	82.1	1	02/23/12 02:30	02/23/12 12:50	129-00-0	
1,2,4-Trichlorobenzene	583U	ug/kg	3480	583	1	02/23/12 02:30	02/23/12 12:50	120-82-1	
2,4,6-Trichlorophenol	516U	ug/kg	3480	516	1	02/23/12 02:30	02/23/12 12:50	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	36 %		10-110		1	02/23/12 02:30	02/23/12 12:50	4165-60-0	
2-Fluorobiphenyl (S)	65 %		18-110		1	02/23/12 02:30	02/23/12 12:50	321-60-8	
Terphenyl-d14 (S)	93 %		10-123		1	02/23/12 02:30	02/23/12 12:50	1718-51-0	
Phenol-d6 (S)	78 %		10-110		1	02/23/12 02:30	02/23/12 12:50	13127-88-3	
2-Fluorophenol (S)	59 %		18-110		1	02/23/12 02:30	02/23/12 12:50	367-12-4	
2,4,6-Tribromophenol (S)	94 %		10-110		1	02/23/12 02:30	02/23/12 12:50	118-79-6	
8270 MSSV TCLP Sep Funnel Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 02/21/12 23:15									
1,4-Dichlorobenzene	0.010U	mg/L	0.050	0.010	1	02/23/12 14:15	02/24/12 14:17	106-46-7	
2,4-Dinitrotoluene	0.0053U	mg/L	0.13	0.0053	1	02/23/12 14:15	02/24/12 14:17	121-14-2	
Hexachloro-1,3-butadiene	0.011U	mg/L	0.050	0.011	1	02/23/12 14:15	02/24/12 14:17	87-68-3	
Hexachlorobenzene	0.0080U	mg/L	0.050	0.0080	1	02/23/12 14:15	02/24/12 14:17	118-74-1	
Hexachloroethane	0.0071U	mg/L	0.050	0.0071	1	02/23/12 14:15	02/24/12 14:17	67-72-1	
2-Methylphenol(o-Cresol)	0.015U	mg/L	0.050	0.015	1	02/23/12 14:15	02/24/12 14:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	0.0066U	mg/L	0.10	0.0066	1	02/23/12 14:15	02/24/12 14:17		J(M0), L3
Nitrobenzene	0.011U	mg/L	0.050	0.011	1	02/23/12 14:15	02/24/12 14:17	98-95-3	
Pentachlorophenol	0.0066U	mg/L	0.20	0.0066	1	02/23/12 14:15	02/24/12 14:17	87-86-5	
Pyridine	0.015U	mg/L	0.20	0.015	1	02/23/12 14:15	02/24/12 14:17	110-86-1	
2,4,5-Trichlorophenol	0.0052U	mg/L	0.050	0.0052	1	02/23/12 14:15	02/24/12 14:17	95-95-4	
2,4,6-Trichlorophenol	0.0069U	mg/L	0.050	0.0069	1	02/23/12 14:15	02/24/12 14:17	88-06-2	
Surrogates									
2-Fluorobiphenyl (S)	66 %		53.5-97.2		1	02/23/12 14:15	02/24/12 14:17	321-60-8	
Nitrobenzene-d5 (S)	68 %		49.6-97.6		1	02/23/12 14:15	02/24/12 14:17	4165-60-0	
Terphenyl-d14 (S)	86 %		62.1-109		1	02/23/12 14:15	02/24/12 14:17	1718-51-0	
Phenol-d6 (S)	24 %		10-57.3		1	02/23/12 14:15	02/24/12 14:17	13127-88-3	
2-Fluorophenol (S)	37 %		13.2-66.5		1	02/23/12 14:15	02/24/12 14:17	367-12-4	
2,4,6-Tribromophenol (S)	88 %		40.5-122		1	02/23/12 14:15	02/24/12 14:17	118-79-6	
8260 MSV 5030 Low Level Analytical Method: EPA 8260									
Acrolein	274U	ug/kg	389	274	1		02/21/12 14:27	107-02-8	

Date: 02/27/2012 04:40 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Cake Lab ID: 3550290004 Collected: 02/16/12 10:40 Received: 02/17/12 13:07 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260							
Acrylonitrile	209U	ug/kg	389	209	1		02/21/12 14:27	107-13-1	
Benzene	19.9U	ug/kg	38.9	19.9	1		02/21/12 14:27	71-43-2	
Bromodichloromethane	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	75-27-4	
Bromofom	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	75-25-2	
Bromomethane	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	74-83-9	
Carbon tetrachloride	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	56-23-5	
Chlorobenzene	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	108-90-7	
Chloroethane	27.9U	ug/kg	38.9	27.9	1		02/21/12 14:27	75-00-3	
2-Chloroethylvinyl ether	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	110-75-8	J(L2)
Chloroform	23.0U	ug/kg	38.9	23.0	1		02/21/12 14:27	67-66-3	
Chloromethane	21.8U	ug/kg	38.9	21.8	1		02/21/12 14:27	74-87-3	
Dibromochloromethane	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	124-48-1	
1,1-Dichloroethane	21.2U	ug/kg	38.9	21.2	1		02/21/12 14:27	75-34-3	
1,2-Dichloroethane	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	107-06-2	
1,1-Dichloroethene	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	75-35-4	
trans-1,2-Dichloroethene	23.7U	ug/kg	38.9	23.7	1		02/21/12 14:27	156-60-5	
1,2-Dichloropropane	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	78-87-5	
Ethylbenzene	22.0U	ug/kg	38.9	22.0	1		02/21/12 14:27	100-41-4	
Methylene Chloride	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	75-09-2	
1,1,2,2-Tetrachloroethane	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	79-34-5	
Tetrachloroethene	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	127-18-4	
Toluene	21.0U	ug/kg	38.9	21.0	1		02/21/12 14:27	108-88-3	
1,1,1-Trichloroethane	21.3U	ug/kg	38.9	21.3	1		02/21/12 14:27	71-55-6	
1,1,2-Trichloroethane	19.4U	ug/kg	38.9	19.4	1		02/21/12 14:27	79-00-5	
Trichloroethene	21.9U	ug/kg	38.9	21.9	1		02/21/12 14:27	79-01-6	
Vinyl chloride	20.9U	ug/kg	38.9	20.9	1		02/21/12 14:27	75-01-4	
Surrogates									
Dibromofluoromethane (S)	97 %		82-115		1		02/21/12 14:27	1868-53-7	1p
Toluene-d8 (S)	87 %		84-117		1		02/21/12 14:27	2037-26-5	
4-Bromofluorobenzene (S)	87 %		55-148		1		02/21/12 14:27	460-00-4	
1,2-Dichloroethane-d4 (S)	111 %		80-131		1		02/21/12 14:27	17060-07-0	
8260 MSV TCLP		Analytical Method: EPA 8260							
Benzene	0.00050U	mg/L	0.0010	0.00050	1		02/24/12 02:24	71-43-2	
2-Butanone (MEK)	0.017	mg/L	0.010	0.00079	1		02/24/12 02:24	78-93-3	
Carbon tetrachloride	0.00034U	mg/L	0.0010	0.00034	1		02/24/12 02:24	56-23-5	
Chlorobenzene	0.00019U	mg/L	0.0010	0.00019	1		02/24/12 02:24	108-90-7	
Chloroform	0.00020U	mg/L	0.0010	0.00020	1		02/24/12 02:24	67-66-3	
1,4-Dichlorobenzene	0.0015	mg/L	0.0010	0.00015	1		02/24/12 02:24	106-46-7	
1,2-Dichloroethane	0.00015U	mg/L	0.0010	0.00015	1		02/24/12 02:24	107-06-2	
1,1-Dichloroethene	0.00038U	mg/L	0.0010	0.00038	1		02/24/12 02:24	75-35-4	
Tetrachloroethene	0.00017U	mg/L	0.0010	0.00017	1		02/24/12 02:24	127-18-4	
Trichloroethene	0.00025U	mg/L	0.0010	0.00025	1		02/24/12 02:24	79-01-6	
Vinyl chloride	0.00053U	mg/L	0.0010	0.00053	1		02/24/12 02:24	75-01-4	



ANALYTICAL RESULTS

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Sample: Cake Lab ID: 3550290004 Collected: 02/16/12 10:40 Received: 02/17/12 13:07 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	101 %		88-116		1		02/24/12 02:24	2037-26-5	
4-Bromofluorobenzene (S)	102 %		74-112		1		02/24/12 02:24	460-00-4	
Dibromofluoromethane (S)	106 %		86-111		1		02/24/12 02:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	85.3 %		0.10	0.10	1		02/20/12 15:15		
9012 Cyanide, Total	Analytical Method: EPA 9012 Preparation Method: EPA 9012								
Cyanide	3.2 mg/kg		1.6	0.82	1	02/22/12 11:45	02/23/12 06:28	57-12-5	J(M1)
Phenolics, Total, Distillation	Analytical Method: EPA 9066 Preparation Method: EPA 9066								
Phenolics, Total Recoverable	75.9 mg/kg		8.4	4.2	1	02/21/12 10:00	02/23/12 17:38		



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: MERP/2502 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 3550290001, 3550290002, 3550290003

METHOD BLANK: 342943 Matrix: Water
 Associated Lab Samples: 3550290001, 3550290002, 3550290003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.10U	0.20	02/24/12 13:47	

LABORATORY CONTROL SAMPLE: 342944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 342945 342946

Parameter	Units	3550307001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury	ug/L	0.10U	2	2	2.0	2.0	98	98	70-130	.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 342947 342948

Parameter	Units	3550307002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury	ug/L	0.10U	2	2	2.2	2.2	109	108	70-130	.3	20	

QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

QC Batch: MERP/2513 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 3550290004

METHOD BLANK: 344301 Matrix: Water
Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	0.0010U	0.0020	02/23/12 13:45	

LABORATORY CONTROL SAMPLE: 344302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.02	0.020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344303 344304

Parameter	Units	3550290004		MS		MSD		% Rec	% Rec	% Rec Limits	Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result				RPD	RPD	
Mercury	mg/L	0.0010 U	.02	.02	0.017	0.017	82	81	75-125	.9	20		



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: MERP/2510 Analysis Method: EPA 7471
 QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
 Associated Lab Samples: 3550290004

METHOD BLANK: 344269 Matrix: Solid
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.0039U	0.0078	02/22/12 10:48	

LABORATORY CONTROL SAMPLE: 344270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.079	0.076	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344271 344272

Parameter	Units	3550290004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Mercury	mg/kg	0.92	1.1	1.2	1.5	1.9	57	88	85-115	22	20	J(D6), J(M1)



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: MPRP/7499 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
 Associated Lab Samples: 3550290001, 3550290002, 3550290003

METHOD BLANK: 343205 Matrix: Water

Associated Lab Samples: 3550290001, 3550290002, 3550290003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	5.0U	15.0	02/21/12 05:38	
Arsenic	ug/L	5.0U	10.0	02/21/12 05:38	
Beryllium	ug/L	0.50U	1.0	02/21/12 05:38	
Cadmium	ug/L	0.50U	1.0	02/21/12 05:38	
Chromium	ug/L	2.5U	5.0	02/21/12 05:38	
Copper	ug/L	2.5U	5.0	02/21/12 05:38	
Lead	ug/L	5.0U	10.0	02/21/12 05:38	
Molybdenum	ug/L	5.0U	10.0	02/21/12 05:38	
Nickel	ug/L	2.5U	5.0	02/21/12 05:38	
Selenium	ug/L	7.5U	15.0	02/21/12 05:38	
Silver	ug/L	2.5U	5.0	02/21/12 05:38	
Zinc	ug/L	10.0U	20.0	02/21/12 05:38	

LABORATORY CONTROL SAMPLE: 343206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	255	102	85-115	
Arsenic	ug/L	250	254	102	85-115	
Beryllium	ug/L	25	26.5	106	85-115	
Cadmium	ug/L	25	25.8	103	85-115	
Chromium	ug/L	250	265	106	85-115	
Copper	ug/L	250	263	105	85-115	
Lead	ug/L	250	251	101	85-115	
Molybdenum	ug/L	250	256	102	85-115	
Nickel	ug/L	250	258	103	85-115	
Selenium	ug/L	250	261	105	85-115	
Silver	ug/L	25	25.4	102	85-115	
Zinc	ug/L	1250	1280	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	Max RPD	Qual
Arsenic	ug/L	5.0U	250	250	261	260	103	103	70-130	.5	20
Beryllium	ug/L	0.50U	25	25	26.4	26.4	106	106	70-130	0	20
Cadmium	ug/L	0.50U	25	25	25.9	25.8	103	103	70-130	.3	20
Chromium	ug/L	2.5U	250	250	266	267	106	106	70-130	.1	20
Copper	ug/L	20.5	250	250	291	293	108	109	70-130	.9	20
Lead	ug/L	5.0U	250	250	258	257	103	102	70-130	.3	20

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343207 343208

Parameter	Units	3550252001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Molybdenum	ug/L	5.0U	250	250	260	260	104	104	70-130	.08	20
Nickel	ug/L	3.5 I	250	250	263	262	104	103	70-130	.4	20
Selenium	ug/L	7.5U	250	250	261	260	104	104	70-130	.3	20
Silver	ug/L	2.5U	25	25	27.6	25.6	110	102	70-130	7	20
Zinc	ug/L	313	1250	1250	1600	1600	103	103	70-130	.06	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343209 343210

Parameter	Units	3550290003	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Antimony	ug/L	5.0U	250	250	260	260	104	104	70-130	.3	20
Arsenic	ug/L	5.0U	250	250	260	258	103	103	70-130	.7	20
Beryllium	ug/L	0.50U	25	25	26.5	26.0	106	104	70-130	2	20
Cadmium	ug/L	0.50U	25	25	25.7	25.5	102	102	70-130	.9	20
Chromium	ug/L	2.5U	250	250	268	265	107	105	70-130	1	20
Copper	ug/L	2.5U	250	250	273	268	108	106	70-130	2	20
Lead	ug/L	5.0U	250	250	255	254	102	101	70-130	.6	20
Molybdenum	ug/L	5.0U	250	250	262	260	104	103	70-130	.7	20
Nickel	ug/L	2.5U	250	250	259	258	103	103	70-130	.6	20
Selenium	ug/L	7.5U	250	250	264	261	105	104	70-130	.9	20
Silver	ug/L	2.5U	25	25	27.2	26.2	108	104	70-130	4	20
Zinc	ug/L	10.4 I	1250	1250	1300	1290	103	103	70-130	.8	20

QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

QC Batch: MPRP/7500 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 3550290001, 3550290002, 3550290003

METHOD BLANK: 343213 Matrix: Water
Associated Lab Samples: 3550290001, 3550290002, 3550290003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Thallium	ug/L	0.50U	1.0	02/22/12 12:41	

LABORATORY CONTROL SAMPLE: 343214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	50	48.1	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	Max		Qual
										RPD	RPD	
Thallium	ug/L	0.50U	50	50	51.1	51.8	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	Max		Qual
										RPD	RPD	
Thallium	ug/L	0.50U	50	50	44.5	45.0	89	90	70-130	1	20	

QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

QC Batch: MPRP/7517 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 3550290004

METHOD BLANK: 343830 Matrix: Solid
Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	0.37U	0.74	02/22/12 06:10	
Arsenic	mg/kg	0.25U	0.50	02/22/12 06:10	
Beryllium	mg/kg	0.025U	0.050	02/22/12 06:10	
Cadmium	mg/kg	0.025U	0.050	02/22/12 06:10	
Chromium	mg/kg	0.12U	0.25	02/22/12 06:10	
Copper	mg/kg	0.12U	0.25	02/22/12 06:10	
Lead	mg/kg	0.25U	0.50	02/22/12 06:10	
Nickel	mg/kg	0.12U	0.25	02/22/12 06:10	
Selenium	mg/kg	0.37U	0.74	02/22/12 06:10	
Silver	mg/kg	0.12U	0.25	02/22/12 06:10	
Thallium	mg/kg	0.37U	0.74	02/22/12 06:10	
Zinc	mg/kg	0.50U	0.99	02/22/12 06:10	

LABORATORY CONTROL SAMPLE: 343831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	12	12.6	105	80-120	
Arsenic	mg/kg	12	12.4	103	80-120	
Beryllium	mg/kg	1.2	1.2	103	80-120	
Cadmium	mg/kg	1.2	1.3	106	80-120	
Chromium	mg/kg	12	13.1	109	80-120	
Copper	mg/kg	12	12.5	104	80-120	
Lead	mg/kg	12	12.8	106	80-120	
Nickel	mg/kg	12	12.9	108	80-120	
Selenium	mg/kg	12	12.9	107	80-120	
Silver	mg/kg	1.2	1.3	112	80-120	
Thallium	mg/kg	12	12.6	105	80-120	
Zinc	mg/kg	60.1	62.9	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343832 343833

Parameter	Units	3550149001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Antimony	mg/kg	2.4U	78.5	86.6	75.5	84.9	93	96	75-125	12	20	
Arsenic	mg/kg	10.1	78.5	86.6	87.9	96.9	99	101	75-125	10	20	
Beryllium	mg/kg	0.81U	8.1	8.8	8.4	9.4	107	109	75-125	12	20	
Cadmium	mg/kg	1.8	8.1	8.8	9.6	10.7	100	103	75-125	11	20	
Chromium	mg/kg	26.2	78.5	86.6	108	118	105	107	75-125	9	20	
Copper	mg/kg	442	78.5	86.6	528	556	110	132	75-125	5	20	J(M1)
Lead	mg/kg	37.2	78.5	86.6	118	130	103	108	75-125	10	20	

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343832			343833									
Parameter	Units	3550149001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Nickel	mg/kg	25.0	78.5	86.6	107	117	104	106	75-125	9	20	
Selenium	mg/kg	10.8	78.5	86.6	93.3	104	105	108	75-125	11	20	
Silver	mg/kg	21.5	8.1	8.8	29.6	31.0	103	111	75-125	5	20	
Thallium	mg/kg	2.4U	78.5	86.6	70.8	81.0	90	94	75-125	13	20	
Zinc	mg/kg	720	392	432	1070	1140	90	96	75-125	6	20	



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: MPRP/7523 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
 Associated Lab Samples: 3550290004

METHOD BLANK: 344297 Matrix: Water
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	0.10U	0.20	02/23/12 01:32	
Barium	mg/L	0.10U	0.20	02/23/12 01:32	
Cadmium	mg/L	0.010U	0.020	02/23/12 01:32	
Chromium	mg/L	0.050U	0.10	02/23/12 01:32	
Lead	mg/L	0.050U	0.10	02/23/12 01:32	
Selenium	mg/L	0.10U	0.20	02/23/12 01:32	
Silver	mg/L	0.050U	0.10	02/23/12 01:32	

LABORATORY CONTROL SAMPLE: 344298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	2.5	2.6	103	80-120	
Barium	mg/L	2.5	2.5	100	80-120	
Cadmium	mg/L	.25	0.26	104	80-120	
Chromium	mg/L	2.5	2.6	104	80-120	
Lead	mg/L	2.5	2.5	101	80-120	
Selenium	mg/L	2.5	2.6	106	80-120	
Silver	mg/L	.25	0.26	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344299 344300

Parameter	Units	3550290004		344300		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Arsenic	mg/L	0.10U	2.5	2.5	2.4	2.5	95	98	75-125	2	20
Barium	mg/L	0.10U	2.5	2.5	2.4	2.4	94	95	75-125	2	20
Cadmium	mg/L	0.010U	.25	.25	0.24	0.25	96	98	75-125	2	20
Chromium	mg/L	0.050U	2.5	2.5	2.4	2.4	96	98	75-125	1	20
Lead	mg/L	0.050U	2.5	2.5	2.5	2.5	98	100	75-125	2	20
Selenium	mg/L	0.10U	2.5	2.5	2.5	2.5	99	101	75-125	2	20
Silver	mg/L	0.050U	.25	.25	0.24	0.25	94	98	75-125	4	20

QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

QC Batch: MSV/4821 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 3550290001, 3550290002, 3550290003

METHOD BLANK: 343020 Matrix: Water
Associated Lab Samples: 3550290001, 3550290002, 3550290003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50U	1.0	02/18/12 12:33	
1,1,2,2-Tetrachloroethane	ug/L	0.17U	0.50	02/18/12 12:33	
1,1,2-Trichloroethane	ug/L	0.50U	1.0	02/18/12 12:33	
1,1-Dichloroethane	ug/L	0.50U	1.0	02/18/12 12:33	
1,1-Dichloroethene	ug/L	0.71U	1.0	02/18/12 12:33	
1,2-Dichloroethane	ug/L	0.50U	1.0	02/18/12 12:33	
1,2-Dichloropropane	ug/L	0.50U	1.0	02/18/12 12:33	
2-Chloroethylvinyl ether	ug/L	5.0U	10.0	02/18/12 12:33	
Acrolein	ug/L	10.0U	20.0	02/18/12 12:33	
Acrylonitrile	ug/L	5.0U	10.0	02/18/12 12:33	
Benzene	ug/L	0.50U	1.0	02/18/12 12:33	
Bromodichloromethane	ug/L	0.30U	0.60	02/18/12 12:33	
Bromoform	ug/L	0.50U	1.0	02/18/12 12:33	
Bromomethane	ug/L	0.50U	1.0	02/18/12 12:33	
Carbon tetrachloride	ug/L	0.50U	1.0	02/18/12 12:33	
Chlorobenzene	ug/L	0.40U	1.0	02/18/12 12:33	
Chloroethane	ug/L	0.61U	1.0	02/18/12 12:33	
Chloroform	ug/L	0.50U	1.0	02/18/12 12:33	
Chloromethane	ug/L	0.50U	1.0	02/18/12 12:33	
Dibromochloromethane	ug/L	0.25U	0.50	02/18/12 12:33	
Ethylbenzene	ug/L	0.50U	1.0	02/18/12 12:33	
Methylene Chloride	ug/L	2.5U	5.0	02/18/12 12:33	
Tetrachloroethene	ug/L	0.50U	1.0	02/18/12 12:33	
Toluene	ug/L	0.50U	1.0	02/18/12 12:33	
trans-1,2-Dichloroethene	ug/L	0.50U	1.0	02/18/12 12:33	
Trichloroethene	ug/L	0.50U	1.0	02/18/12 12:33	
Vinyl chloride	ug/L	0.53U	1.0	02/18/12 12:33	
1,2-Dichloroethane-d4 (S)	%	100	79-123	02/18/12 12:33	
4-Bromofluorobenzene (S)	%	99	71-111	02/18/12 12:33	
Dibromofluoromethane (S)	%	98	88-113	02/18/12 12:33	
Toluene-d8 (S)	%	102	77-116	02/18/12 12:33	

LABORATORY CONTROL SAMPLE: 343021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	24.1	121	52-162	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	14-157	
1,1,2-Trichloroethane	ug/L	20	20.6	103	52-150	
1,1-Dichloroethane	ug/L	20	21.1	105	59-155	
1,1-Dichloroethene	ug/L	20	21.7	108	10-234	
1,2-Dichloroethane	ug/L	20	20.0	100	49-155	

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

LABORATORY CONTROL SAMPLE: 343021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	20	20.0	100	10-210	
2-Chloroethylvinyl ether	ug/L	20	15.1	76	10-305	
Acrolein	ug/L	200	174	87	14-183	
Acrylonitrile	ug/L	200	196	98	60-146	
Benzene	ug/L	20	21.1	106	37-151	
Bromodichloromethane	ug/L	20	19.0	95	35-155	
Bromoform	ug/L	20	17.8	89	45-169	
Bromomethane	ug/L	20	21.1	106	10-242	
Carbon tetrachloride	ug/L	20	23.2	116	70-140	
Chlorobenzene	ug/L	20	21.1	105	37-160	
Chloroethane	ug/L	20	19.3	96	10-230	
Chloroform	ug/L	20	17.7	88	51-138	
Chloromethane	ug/L	20	19.1	95	10-273	
Dibromochloromethane	ug/L	20	17.8	89	35-155	
Ethylbenzene	ug/L	20	21.2	106	37-162	
Methylene Chloride	ug/L	20	21.3	107	10-221	
Tetrachloroethene	ug/L	20	19.3	96	64-148	
Toluene	ug/L	20	21.0	105	47-150	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	54-156	
Trichloroethene	ug/L	20	21.6	108	71-157	
Vinyl chloride	ug/L	20	21.5	107	10-251	
1,2-Dichloroethane-d4 (S)	%			95	79-123	
4-Bromofluorobenzene (S)	%			102	71-111	
Dibromofluoromethane (S)	%			93	88-113	
Toluene-d8 (S)	%			99	77-116	

MATRIX SPIKE SAMPLE: 343028

Parameter	Units	3550286002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50U	20	24.9	124	52-162	
1,1,2,2-Tetrachloroethane	ug/L	0.17U	20	156	778	14-157 J(P6)	
1,1,2-Trichloroethane	ug/L	0.50U	20	18.1	91	52-150	
1,1-Dichloroethane	ug/L	0.50U	20	20.9	105	59-155	
1,1-Dichloroethene	ug/L	0.71U	20	23.2	116	10-234	
1,2-Dichloroethane	ug/L	0.50U	20	20.8	104	49-155	
1,2-Dichloropropane	ug/L	0.50U	20	17.6	88	10-210	
2-Chloroethylvinyl ether	ug/L	5.0U	20	5.0U	0	10-305 J(M1)	
Acrolein	ug/L	10.0U	200	144	71	14-183	
Acrylonitrile	ug/L	5.0U	200	209	104	60-146	
Benzene	ug/L	0.50U	20	18.7	94	37-151	
Bromodichloromethane	ug/L	0.30U	20	18.5	92	35-155	
Bromoform	ug/L	0.50U	20	16.7	83	45-169	
Bromomethane	ug/L	0.50U	20	14.6	73	10-242	
Carbon tetrachloride	ug/L	0.50U	20	21.7	109	70-140	
Chlorobenzene	ug/L	0.40U	20	18.5	93	37-160	
Chloroethane	ug/L	0.61U	20	17.9	89	10-230	
Chloroform	ug/L	1.4	20	22.8	107	51-138	

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

MATRIX SPIKE SAMPLE:		343028		3550286002		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers			
Chloromethane	ug/L	0.50U	20	19.9	100	10-273				
Dibromochloromethane	ug/L	0.25U	20	15.4	77	35-155				
Ethylbenzene	ug/L	0.50U	20	13.3	67	37-162				
Methylene Chloride	ug/L	2.5U	20	21.6	100	10-221				
Tetrachloroethene	ug/L	0.50U	20	18.3	91	64-148				
Toluene	ug/L	1.4	20	21.3	99	47-150				
trans-1,2-Dichloroethene	ug/L	0.50U	20	19.1	96	54-156				
Trichloroethene	ug/L	0.50U	20	18.1	91	71-157				
Vinyl chloride	ug/L	0.53U	20	20.0	100	10-251				
1,2-Dichloroethane-d4 (S)	%				105	79-123				
4-Bromofluorobenzene (S)	%				48	71-111 J(S0)				
Dibromofluoromethane (S)	%				115	88-113 J(S0)				
Toluene-d8 (S)	%				108	77-116				

SAMPLE DUPLICATE: 343027

Parameter	Units	3550286001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1-Trichloroethane	ug/L	0.50U	0.50U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.17U	0.17U		40	
1,1,2-Trichloroethane	ug/L	0.50U	0.50U		40	
1,1-Dichloroethane	ug/L	0.50U	0.50U		40	
1,1-Dichloroethene	ug/L	0.71U	0.71U		40	
1,2-Dichloroethane	ug/L	0.50U	0.50U		40	
1,2-Dichloropropane	ug/L	0.50U	0.50U		40	
2-Chloroethylvinyl ether	ug/L	5.0U	5.0U		40	
Acrolein	ug/L	10.0U	10.0U		40	
Acrylonitrile	ug/L	5.0U	5.0U		40	
Benzene	ug/L	0.50U	0.50U		40	
Bromodichloromethane	ug/L	0.30U	0.30U		40	
Bromofom	ug/L	0.50U	0.50U		40	
Bromomethane	ug/L	0.50U	0.50U		40	
Carbon tetrachloride	ug/L	0.50U	0.50U		40	
Chlorobenzene	ug/L	0.40U	0.40U		40	
Chloroethane	ug/L	0.61U	0.61U		40	
Chloroform	ug/L	0.50U	0.50U		40	
Chloromethane	ug/L	0.50U	0.50U		40	
Dibromochloromethane	ug/L	0.25U	0.25U		40	
Ethylbenzene	ug/L	0.50U	0.50U		40	
Methylene Chloride	ug/L	2.5U	2.5U		40	
Tetrachloroethene	ug/L	0.50U	0.50U		40	
Toluene	ug/L	0.50U	0.50U		40	
trans-1,2-Dichloroethene	ug/L	0.50U	0.50U		40	
Trichloroethene	ug/L	0.50U	0.50U		40	
Vinyl chloride	ug/L	0.53U	0.53U		40	
1,2-Dichloroethane-d4 (S)	%	104	102	1		
4-Bromofluorobenzene (S)	%	61	21	96		J(S0)
Dibromofluoromethane (S)	%	99	99	.2		

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

SAMPLE DUPLICATE: 343027

Parameter	Units	3550286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	94	88	7		

QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

QC Batch: MSV/4830 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5030 Low
Associated Lab Samples: 3550290004

METHOD BLANK: 343803 Matrix: Solid
Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	2.7U	5.0	02/21/12 08:33	
1,1,2,2-Tetrachloroethane	ug/kg	2.5U	5.0	02/21/12 08:33	
1,1,2-Trichloroethane	ug/kg	2.5U	5.0	02/21/12 08:33	
1,1-Dichloroethane	ug/kg	2.7U	5.0	02/21/12 08:33	
1,1-Dichloroethene	ug/kg	2.5U	5.0	02/21/12 08:33	
1,2-Dichloroethane	ug/kg	2.5U	5.0	02/21/12 08:33	
1,2-Dichloropropane	ug/kg	2.5U	5.0	02/21/12 08:33	
2-Chloroethylvinyl ether	ug/kg	2.5U	5.0	02/21/12 08:33	
Acrolein	ug/kg	35.0U	49.6	02/21/12 08:33	
Acrylonitrile	ug/kg	26.7U	49.6	02/21/12 08:33	
Benzene	ug/kg	2.5U	5.0	02/21/12 08:33	
Bromodichloromethane	ug/kg	2.5U	5.0	02/21/12 08:33	
Bromoform	ug/kg	2.5U	5.0	02/21/12 08:33	
Bromomethane	ug/kg	2.5U	5.0	02/21/12 08:33	
Carbon tetrachloride	ug/kg	2.5U	5.0	02/21/12 08:33	
Chlorobenzene	ug/kg	2.5U	5.0	02/21/12 08:33	
Chloroethane	ug/kg	3.6U	5.0	02/21/12 08:33	
Chloroform	ug/kg	2.9U	5.0	02/21/12 08:33	
Chloromethane	ug/kg	2.8U	5.0	02/21/12 08:33	
Dibromochloromethane	ug/kg	2.5U	5.0	02/21/12 08:33	
Ethylbenzene	ug/kg	2.8U	5.0	02/21/12 08:33	
Methylene Chloride	ug/kg	2.5U	5.0	02/21/12 08:33	
Tetrachloroethene	ug/kg	2.5U	5.0	02/21/12 08:33	
Toluene	ug/kg	2.7U	5.0	02/21/12 08:33	
trans-1,2-Dichloroethene	ug/kg	3.0U	5.0	02/21/12 08:33	
Trichloroethene	ug/kg	2.8U	5.0	02/21/12 08:33	
Vinyl chloride	ug/kg	2.7U	5.0	02/21/12 08:33	
1,2-Dichloroethane-d4 (S)	%	98	80-131	02/21/12 08:33	
4-Bromofluorobenzene (S)	%	98	55-148	02/21/12 08:33	
Dibromofluoromethane (S)	%	97	82-115	02/21/12 08:33	
Toluene-d8 (S)	%	95	84-117	02/21/12 08:33	

LABORATORY CONTROL SAMPLE: 343804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	19.6	17.6	89	68-130	
1,1,2,2-Tetrachloroethane	ug/kg	19.6	21.7	111	70-130	
1,1,2-Trichloroethane	ug/kg	19.6	18.4	94	70-130	
1,1-Dichloroethane	ug/kg	19.6	20.4	104	69-130	
1,1-Dichloroethene	ug/kg	19.6	20.9	106	67-130	
1,2-Dichloroethane	ug/kg	19.6	19.8	101	70-130	

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

LABORATORY CONTROL SAMPLE: 343804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/kg	19.6	21.8	111	70-130	
2-Chloroethylvinyl ether	ug/kg	19.6	2.5U	0	20-150	J(L0)
Acrolein	ug/kg	196	254	129	37-163	
Acrylonitrile	ug/kg	196	240	122	70-130	
Benzene	ug/kg	19.6	20.1	102	70-130	
Bromodichloromethane	ug/kg	19.6	20.0	102	70-130	
Bromoform	ug/kg	19.6	23.6	120	70-130	
Bromomethane	ug/kg	19.6	21.3	109	42-156	
Carbon tetrachloride	ug/kg	19.6	19.5	99	65-132	
Chlorobenzene	ug/kg	19.6	19.4	99	70-130	
Chloroethane	ug/kg	19.6	20.6	105	56-146	
Chloroform	ug/kg	19.6	20.0	102	69-130	
Chloromethane	ug/kg	19.6	24.6	125	50-145	
Dibromochloromethane	ug/kg	19.6	20.9	106	70-130	
Ethylbenzene	ug/kg	19.6	18.7	95	70-130	
Methylene Chloride	ug/kg	19.6	22.0	112	40-159	
Tetrachloroethene	ug/kg	19.6	21.2	108	63-130	
Toluene	ug/kg	19.6	15.9	81	70-130	
trans-1,2-Dichloroethene	ug/kg	19.6	19.2	98	70-130	
Trichloroethene	ug/kg	19.6	20.0	102	69-130	
Vinyl chloride	ug/kg	19.6	21.4	109	67-130	
1,2-Dichloroethane-d4 (S)	%			118	80-131	
4-Bromofluorobenzene (S)	%			124	55-148	
Dibromofluoromethane (S)	%			95	82-115	
Toluene-d8 (S)	%			99	84-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344440 344441

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		3550317001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/kg		28.1	30.2	12.0	17.3	43	57	42-131	36	40
1,1,2,2-Tetrachloroethane	ug/kg		28.1	30.2	25.2	25.3	89	84	50-130	.4	40
1,1,2-Trichloroethane	ug/kg		28.1	30.2	19.2	20.2	68	67	59-130	5	40
1,1-Dichloroethane	ug/kg		28.1	30.2	13.5	18.4	48	61	50-130	30	40
1,1-Dichloroethene	ug/kg		28.1	30.2	10.8	17.0	38	56	51-130	44	40 J(D6)
1,2-Dichloroethane	ug/kg		28.1	30.2	16.1	17.8	57	59	57-130	10	40
1,2-Dichloropropane	ug/kg		28.1	30.2	16.7	20.7	59	69	52-130	21	40
2-Chloroethylvinyl ether	ug/kg		28.1	30.2	3.5U	3.8U	0	0	20-137		40
Acrolein	ug/kg		281	302	65.5 I	53.9 I	23	18	20-152		40
Acrylonitrile	ug/kg		281	302	189	164	67	54	24-140	14	40
Benzene	ug/kg	0.0037 U mg/kg	28.1	30.2	13.3	18.6	47	62	24-141	33	40
Bromodichloromethane	ug/kg		28.1	30.2	14.2	17.4	50	58	20-155	20	40
Bromoform	ug/kg		28.1	30.2	17.9	19.0	64	63	30-130	6	40
Bromomethane	ug/kg		28.1	30.2	14.9	15.7	53	52	22-152	5	40
Carbon tetrachloride	ug/kg		28.1	30.2	11.4	17.1	41	57	23-141	40	40
Chlorobenzene	ug/kg		28.1	30.2	15.1	19.3	54	64	34-130	24	40

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Parameter	Units	3550317001		MS		MSD		344440		344441		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
Chloroethane	ug/kg		28.1	30.2	19.7	18.3	70	61	43-146	7	40						
Chloroform	ug/kg		28.1	30.2	12.8	18.2	46	60	42-132	35	40						
Chloromethane	ug/kg		28.1	30.2	14.2	19.8	50	66	31-144	33	40						
Dibromochloromethane	ug/kg		28.1	30.2	15.9	18.8	56	62	20-151	17	40						
Ethylbenzene	ug/kg	0.017	28.1	30.2	23.2	31.8	24	51	30-130	31	40						J(M1)
		mg/kg															
Methylene Chloride	ug/kg		28.1	30.2	14.0	17.2	50	57	20-150	21	40						
Tetrachloroethene	ug/kg		28.1	30.2	10.1	14.2	36	47	23-144	34	40						
Toluene	ug/kg	0.25	28.1	30.2	115	136	-473	-375	24-137	16	40						J(M1)
		mg/kg															
trans-1,2-Dichloroethene	ug/kg		28.1	30.2	11.1	15.6	40	52	50-130	34	40						
Trichloroethene	ug/kg		28.1	30.2	12.1	17.3	43	57	42-130	35	40						
Vinyl chloride	ug/kg		28.1	30.2	10.9	18.2	39	60	47-130	50	40						J(D6)
1,2-Dichloroethane-d4 (S)	%						104	92	80-131								
4-Bromofluorobenzene (S)	%						102	99	55-148								
Dibromofluoromethane (S)	%						87	85	82-115								
Toluene-d8 (S)	%						95	93	84-117								



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: MSV/4856 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
 Associated Lab Samples: 3550290004

METHOD BLANK: 345405 Matrix: Water
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/L	0.00038U	0.0010	02/23/12 20:15	
1,2-Dichloroethane	mg/L	0.00015U	0.0010	02/23/12 20:15	
1,4-Dichlorobenzene	mg/L	0.00015U	0.0010	02/23/12 20:15	
2-Butanone (MEK)	mg/L	0.00079U	0.010	02/23/12 20:15	
Benzene	mg/L	0.00050U	0.0010	02/23/12 20:15	
Carbon tetrachloride	mg/L	0.00034U	0.0010	02/23/12 20:15	
Chlorobenzene	mg/L	0.00019U	0.0010	02/23/12 20:15	
Chloroform	mg/L	0.00020U	0.0010	02/23/12 20:15	
Tetrachloroethene	mg/L	0.00017U	0.0010	02/23/12 20:15	
Trichloroethene	mg/L	0.00025U	0.0010	02/23/12 20:15	
Vinyl chloride	mg/L	0.00053U	0.0010	02/23/12 20:15	
4-Bromofluorobenzene (S)	%	101	74-112	02/23/12 20:15	
Dibromofluoromethane (S)	%	103	86-111	02/23/12 20:15	
Toluene-d8 (S)	%	102	88-116	02/23/12 20:15	

LABORATORY CONTROL SAMPLE & LCSD: 345406 345407

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	mg/L	.02	0.020	0.019	99	94	66-147	5	40	
1,2-Dichloroethane	mg/L	.02	0.018	0.017	89	86	84-124	3	40	
1,4-Dichlorobenzene	mg/L	.02	0.020	0.019	98	95	81-122	4	40	
2-Butanone (MEK)	mg/L	.02	0.017	0.020	87	101	44-156	15	40	
Benzene	mg/L	.02	0.020	0.019	99	97	76-129	1	40	
Carbon tetrachloride	mg/L	.02	0.019	0.019	96	94	65-136	2	40	
Chlorobenzene	mg/L	.02	0.022	0.021	109	107	82-117	2	40	
Chloroform	mg/L	.02	0.019	0.019	96	96	80-130	.3	40	
Tetrachloroethene	mg/L	.02	0.020	0.019	102	96	41-122	6	40	
Trichloroethene	mg/L	.02	0.019	0.018	95	92	74-129	2	40	
Vinyl chloride	mg/L		0.018	0.018				4	40	
4-Bromofluorobenzene (S)	%				105	100	74-112			
Dibromofluoromethane (S)	%				100	101	86-111			
Toluene-d8 (S)	%				99	97	88-116			

QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

QC Batch: OEXT/7579 Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 3550290001, 3550290002, 3550290003

METHOD BLANK: 345280 Matrix: Water

Associated Lab Samples: 3550290001, 3550290002, 3550290003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	1.4U	5.0	02/23/12 18:32	

LABORATORY CONTROL SAMPLE: 345281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.3	98	78-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 345399 345400

Parameter	Units	3550001004 Result	MS Spike	MSD Spike	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Conc.	Conc.								
Oil and Grease	mg/L	1.4U	40.3	40.2	35.3	37.1	88	92	78-114	5	18	



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: OEXT/7537 Analysis Method: EPA 608
 QC Batch Method: EPA 608 SF Analysis Description: 608 GCS Pest PCB
 Associated Lab Samples: 3550290001, 3550290002, 3550290003

METHOD BLANK: 342842 Matrix: Water
 Associated Lab Samples: 3550290001, 3550290002, 3550290003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	0.0050U	0.010	02/22/12 19:50	
4,4'-DDE	ug/L	0.0080U	0.010	02/22/12 19:50	
4,4'-DDT	ug/L	0.0050U	0.010	02/22/12 19:50	
Aldrin	ug/L	0.0060U	0.010	02/22/12 19:50	
alpha-BHC	ug/L	0.0040U	0.010	02/22/12 19:50	
beta-BHC	ug/L	0.0060U	0.010	02/22/12 19:50	
Chlordane (Technical)	ug/L	0.080U	0.50	02/22/12 19:50	
delta-BHC	ug/L	0.0060U	0.010	02/22/12 19:50	
Dieldrin	ug/L	0.0050U	0.010	02/22/12 19:50	
Endosulfan I	ug/L	0.0050U	0.010	02/22/12 19:50	
Endosulfan II	ug/L	0.0040U	0.010	02/22/12 19:50	
Endosulfan sulfate	ug/L	0.010U	0.010	02/22/12 19:50	
Endrin	ug/L	0.0060U	0.010	02/22/12 19:50	
Endrin aldehyde	ug/L	0.0050U	0.0050	02/22/12 19:50	
gamma-BHC (Lindane)	ug/L	0.0040U	0.010	02/22/12 19:50	
Heptachlor	ug/L	0.0060U	0.010	02/22/12 19:50	
Heptachlor epoxide	ug/L	0.0060U	0.010	02/22/12 19:50	
PCB-1016 (Aroclor 1016)	ug/L	0.080U	0.50	02/22/12 19:50	
PCB-1221 (Aroclor 1221)	ug/L	0.081U	0.50	02/22/12 19:50	
PCB-1232 (Aroclor 1232)	ug/L	0.12U	0.50	02/22/12 19:50	
PCB-1242 (Aroclor 1242)	ug/L	0.13U	0.50	02/22/12 19:50	
PCB-1248 (Aroclor 1248)	ug/L	0.28U	0.50	02/22/12 19:50	
PCB-1254 (Aroclor 1254)	ug/L	0.14U	0.50	02/22/12 19:50	
PCB-1260 (Aroclor 1260)	ug/L	0.11U	0.50	02/22/12 19:50	
Toxaphene	ug/L	0.37U	0.50	02/22/12 19:50	
Decachlorobiphenyl (S)	%	86	61-121	02/22/12 19:50	
Tetrachloro-m-xylene (S)	%	78	53-110	02/22/12 19:50	

LABORATORY CONTROL SAMPLE: 342843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.5	0.49	99	31-141	
4,4'-DDE	ug/L	.5	0.50	100	30-145	
4,4'-DDT	ug/L	.5	0.71	142	25-160	
Aldrin	ug/L	.5	0.41	81	42-122	
alpha-BHC	ug/L	.5	0.39	78	37-134	
beta-BHC	ug/L	.5	0.47	95	17-147	
delta-BHC	ug/L	.5	0.33	66	19-140	
Dieldrin	ug/L	.5	0.50	100	36-146	
Endosulfan I	ug/L	.5	0.47	94	45-153	
Endosulfan II	ug/L	.5	0.52	103	10-202	

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

LABORATORY CONTROL SAMPLE: 342843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endosulfan sulfate	ug/L	.5	0.50	99	26-144	
Endrin	ug/L	.5	0.48	95	30-147	
Endrin aldehyde	ug/L	.5	0.53	106	70-130	
gamma-BHC (Lindane)	ug/L	.5	0.43	86	32-127	
Heptachlor	ug/L	.5	0.47	94	34-111	
Heptachlor epoxide	ug/L	.5	0.49	98	37-142	
Decachlorobiphenyl (S)	%			79	61-121	
Tetrachloro-m-xylene (S)	%			77	53-110	

LABORATORY CONTROL SAMPLE: 343121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.6	102	50-114	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.5	99	10-127	
Decachlorobiphenyl (S)	%			81	61-121	
Tetrachloro-m-xylene (S)	%			82	53-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 342844 342845

Parameter	Units	3550204015		MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.									
4,4'-DDD	ug/L	0.0047	U	1	.83	0.92	0.80	92	96	31-141	13	40		
4,4'-DDE	ug/L	0.0076	U	1	.83	0.94	0.77	94	93	30-145	20	40		
4,4'-DDT	ug/L	0.0047	U	1	.83	1.6	1.3	158	152	25-160	22	40		
Aldrin	ug/L	0.0057	U	1	.83	0.88	0.75	88	90	42-122	16	40		
alpha-BHC	ug/L	0.0038	U	1	.83	0.83	0.69	83	83	37-134	19	40		
beta-BHC	ug/L	0.0057	U	1	.83	1.0	0.86	103	103	17-147	18	40		
delta-BHC	ug/L	0.0057	U	1	.83	0.73	0.58	73	69	19-140	23	40		
Dieldrin	ug/L	0.0047	U	1	.83	1.0	0.87	103	105	36-146	17	40		
Endosulfan I	ug/L	0.0047	U	1	.83	0.94	0.78	94	94	45-153	18	40		
Endosulfan II	ug/L	0.0038	U	1	.83	1.0	0.84	102	101	10-202	19	40		
Endosulfan sulfate	ug/L	0.0094	U	1	.83	1.0	0.83	100	100	26-144	18	40		
Endrin	ug/L	0.0057	U	1	.83	0.97	0.81	97	98	30-147	18	40		
Endrin aldehyde	ug/L	0.0047	U	1	.83	1.0	0.83	103	100	70-130	21	40		
gamma-BHC (Lindane)	ug/L	0.0038	U	1	.83	0.94	0.79	94	94	32-127	18	40		

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Parameter	Units	3550204015		342844		342845		% Rec	% Rec	% Rec	Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Heptachlor	ug/L	0.0057 U	1	.83	1.1	0.94	112	113	34-111	17	40	J(M1)	
Heptachlor epoxide	ug/L	0.0057 U	1	.83	1.0	0.84	100	101	37-142	17	40		
Decachlorobiphenyl (S)	%						93	93	61-121				
Tetrachloro-m-xylene (S)	%						91	95	53-110				



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: OEXT/7530 Analysis Method: EPA 625
 QC Batch Method: EPA 625 Analysis Description: 625 MSS
 Associated Lab Samples: 3550290001, 3550290002, 3550290003

METHOD BLANK: 342816 Matrix: Water
 Associated Lab Samples: 3550290001, 3550290002, 3550290003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	0.83U	5.0	02/19/12 14:21	
1,2-Dichlorobenzene	ug/L	0.68U	5.0	02/19/12 14:21	
1,2-Diphenylhydrazine	ug/L	0.66U	5.0	02/19/12 14:21	
1,3-Dichlorobenzene	ug/L	0.76U	5.0	02/19/12 14:21	
1,4-Dichlorobenzene	ug/L	0.77U	5.0	02/19/12 14:21	
2,4,6-Trichlorophenol	ug/L	0.69U	2.0	02/19/12 14:21	
2,4-Dichlorophenol	ug/L	0.56U	2.0	02/19/12 14:21	
2,4-Dimethylphenol	ug/L	1.6U	5.0	02/19/12 14:21	
2,4-Dinitrophenol	ug/L	1.6U	14.0	02/19/12 14:21	
2,4-Dinitrotoluene	ug/L	0.53U	2.0	02/19/12 14:21	
2,6-Dinitrotoluene	ug/L	0.64U	4.0	02/19/12 14:21	
2-Chloronaphthalene	ug/L	0.80U	2.0	02/19/12 14:21	
2-Chlorophenol	ug/L	0.68U	5.0	02/19/12 14:21	
2-Nitrophenol	ug/L	0.81U	5.0	02/19/12 14:21	
3,3'-Dichlorobenzidine	ug/L	0.69U	10.0	02/19/12 14:21	
4,6-Dinitro-2-methylphenol	ug/L	1.3U	20.0	02/19/12 14:21	
4-Bromophenylphenyl ether	ug/L	0.67U	5.0	02/19/12 14:21	
4-Chloro-3-methylphenol	ug/L	0.62U	20.0	02/19/12 14:21	
4-Chlorophenylphenyl ether	ug/L	0.63U	5.0	02/19/12 14:21	
4-Nitrophenol	ug/L	1.1U	20.0	02/19/12 14:21	
Acenaphthylene	ug/L	0.95U	5.0	02/19/12 14:21	
Anthracene	ug/L	0.60U	5.0	02/19/12 14:21	
Benzidine	ug/L	0.77U	25.0	02/19/12 14:21	
Benzo(a)anthracene	ug/L	0.63U	2.0	02/19/12 14:21	
Benzo(a)pyrene	ug/L	0.58U	1.0	02/19/12 14:21	
Benzo(b)fluoranthene	ug/L	0.62U	2.0	02/19/12 14:21	
Benzo(g,h,i)perylene	ug/L	0.68U	5.0	02/19/12 14:21	
Benzo(k)fluoranthene	ug/L	0.51U	4.0	02/19/12 14:21	
bis(2-Chloroethoxy)methane	ug/L	3.0U	5.0	02/19/12 14:21	
bis(2-Chloroethyl) ether	ug/L	0.75U	4.0	02/19/12 14:21	
bis(2-Chloroisopropyl) ether	ug/L	0.73U	5.0	02/19/12 14:21	
bis(2-Ethylhexyl)phthalate	ug/L	0.80U	5.0	02/19/12 14:21	
Butylbenzylphthalate	ug/L	0.72U	5.0	02/19/12 14:21	
Chrysene	ug/L	0.37U	5.0	02/19/12 14:21	
Di-n-butylphthalate	ug/L	0.41U	5.0	02/19/12 14:21	
Di-n-octylphthalate	ug/L	0.90U	5.0	02/19/12 14:21	
Dibenz(a,h)anthracene	ug/L	0.65U	2.0	02/19/12 14:21	
Diethylphthalate	ug/L	0.51U	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
Fluoranthene	ug/L	0.54U	5.0	02/19/12 14:21	
Fluorene	ug/L	0.56U	5.0	02/19/12 14:21	
Hexachloro-1,3-butadiene	ug/L	1.1U	2.0	02/19/12 14:21	

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

METHOD BLANK: 342816 Matrix: Water

Associated Lab Samples: 3550290001, 3550290002, 3550290003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachlorobenzene	ug/L	0.80U	1.0	02/19/12 14:21	
Hexachlorocyclopentadiene	ug/L	1.3U	5.0	02/19/12 14:21	
Hexachloroethane	ug/L	0.71U	5.0	02/19/12 14:21	
Indeno(1,2,3-cd)pyrene	ug/L	0.73U	2.0	02/19/12 14:21	
Isophorone	ug/L	0.73U	5.0	02/19/12 14:21	
N-Nitroso-di-n-propylamine	ug/L	0.94U	4.0	02/19/12 14:21	
N-Nitrosodimethylamine	ug/L	0.97U	2.0	02/19/12 14:21	
N-Nitrosodiphenylamine	ug/L	0.50U	5.0	02/19/12 14:21	
Naphthalene	ug/L	0.78U	5.0	02/19/12 14:21	
Nitrobenzene	ug/L	1.1U	4.0	02/19/12 14:21	
Pentachlorophenol	ug/L	0.66U	20.0	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	
Pyrene	ug/L	0.68U	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	16.3-59.8	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
1,2,4-Trichlorobenzene	ug/L	50	30.3	61	44-142	
1,2-Dichlorobenzene	ug/L	50	25.7	51	32-129	
1,2-Diphenylhydrazine	ug/L	50	42.9	86	51-111	
1,3-Dichlorobenzene	ug/L	50	26.2	52	10-172	
1,4-Dichlorobenzene	ug/L	50	25.7	51	20-124	
2,4,6-Trichlorophenol	ug/L	50	38.9	78	37-144	
2,4-Dichlorophenol	ug/L	50	32.7	65	39-135	
2,4-Dimethylphenol	ug/L	50	30.8	62	32-119	
2,4-Dinitrophenol	ug/L	50	42.7	85	10-191	
2,4-Dinitrotoluene	ug/L	50	39.2	78	39-139	
2,6-Dinitrotoluene	ug/L	50	39.2	78	50-158	
2-Chloronaphthalene	ug/L	50	36.4	73	60-118	
2-Chlorophenol	ug/L	50	24.2	48	23-134	
2-Nitrophenol	ug/L	50	30.4	61	29-182	
3,3'-Dichlorobenzidine	ug/L	50	46.6	93	0-262	
4,6-Dinitro-2-methylphenol	ug/L	50	50.8	102	0-181	
4-Bromophenylphenyl ether	ug/L	50	43.0	86	53-127	
4-Chloro-3-methylphenol	ug/L	50	32.7	65	22-147	
4-Chlorophenylphenyl ether	ug/L	50	38.1	76	25-158	
4-Nitrophenol	ug/L	50	14.0	28	10-132	
Acenaphthylene	ug/L	50	37.3	75	33-145	

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

LABORATORY CONTROL SAMPLE: 342817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	50	42.5	85	27-133	
Benzidine	ug/L	50	12.81	26	0-99	
Benzo(a)anthracene	ug/L	50	43.8	88	33-143	
Benzo(a)pyrene	ug/L	50	47.4	95	17-163	
Benzo(b)fluoranthene	ug/L	50	44.2	88	24-159	
Benzo(g,h,i)perylene	ug/L	50	60.3	121	0-219	
Benzo(k)fluoranthene	ug/L	50	51.7	103	11-162	
bis(2-Chloroethoxy)methane	ug/L	50	33.2	66	33-184	
bis(2-Chloroethyl) ether	ug/L	50	24.4	49	12-158	
bis(2-Chloroisopropyl) ether	ug/L	50	26.7	53	36-166	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.1	90	10-158	
Butylbenzylphthalate	ug/L	50	47.3	95	0-152	
Chrysene	ug/L	50	46.8	94	17-168	
Di-n-butylphthalate	ug/L	50	43.7	87	10-118	
Di-n-octylphthalate	ug/L	50	48.0	96	10-146	
Dibenz(a,h)anthracene	ug/L	50	58.8	118	0-227	
Diethylphthalate	ug/L	50	39.6	79	10-114	
Dimethylphthalate	ug/L	50	39.8	80	10-112	
Dioxin Screen	ug/L		10.0U			N2
Fluoranthene	ug/L	50	41.5	83	26-137	
Fluorene	ug/L	50	38.1	76	59-121	
Hexachloro-1,3-butadiene	ug/L	50	30.8	62	24-116	
Hexachlorobenzene	ug/L	50	43.4	87	0-152	
Hexachlorocyclopentadiene	ug/L	50	24.8	50	10-100	
Hexachloroethane	ug/L	50	26.5	53	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	57.8	116	0-171	
Isophorone	ug/L	50	32.4	65	21-196	
N-Nitroso-di-n-propylamine	ug/L	50	26.7	53	10-230	
N-Nitrosodimethylamine	ug/L	50	15.2	30	19-58	
N-Nitrosodiphenylamine	ug/L	50	44.2	88	55-104	
Naphthalene	ug/L	50	29.9	60	21-133	
Nitrobenzene	ug/L	50	30.2	60	35-180	
Pentachlorophenol	ug/L	50	53.6	107	14-176	
Phenanthrene	ug/L	50	42.4	85	54-120	
Phenol	ug/L	50	9.5	19	10-112	
Pyrene	ug/L	50	46.6	93	52-115	
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	

QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Parameter	3550204015		MS	MSD	343118		343119		% Rec	% Rec	Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,2,4-Trichlorobenzene	ug/L	0.79U	100	83.3	66.2	50.1	66	60	44-142	28	40		
1,2-Dichlorobenzene	ug/L	0.64U	100	83.3	56.6	47.1	57	57	32-129	18	40		
1,2-Diphenylhydrazine	ug/L	0.62U	100	83.3	88.1	74.2	88	89	51.1-110	17	40		
1,3-Dichlorobenzene	ug/L	0.72U	100	83.3	55.4	43.0	55	52	10-172	25	40		
1,4-Dichlorobenzene	ug/L	0.73U	100	83.3	55.8	43.5	56	52	20-124	25	40		
2,4,6-Trichlorophenol	ug/L	0.65U	100	83.3	81.7	66.4	82	80	37-144	21	40		
2,4-Dichlorophenol	ug/L	0.53U	100	83.3	73.2	58.1	73	67	39-135	27	40		
2,4-Dimethylphenol	ug/L	1.5U	100	83.3	67.7	42.9	68	52	32-119	45	40	J(D6)	
2,4-Dinitrophenol	ug/L	1.5U	100	83.3	81.9	68.4	82	82	10-191	18	40		
2,4-Dinitrotoluene	ug/L	0.50U	100	83.3	78.5	66.5	79	80	39-139	17	40		
2,6-Dinitrotoluene	ug/L	0.61U	100	83.3	79.4	66.6	79	80	50-158	17	40		
2-Chloronaphthalene	ug/L	0.76U	100	83.3	81.4	65.6	81	79	60-118	22	40		
2-Chlorophenol	ug/L	0.64U	100	83.3	56.8	42.7	57	51	23-134	28	40		
2-Nitrophenol	ug/L	0.77U	100	83.3	67.4	51.9	67	62	29-182	26	40		
3,3'-Dichlorobenzidine	ug/L	0.65U	100	83.3	52.0	7.8	52	9	0-262		40		
4,6-Dinitro-2-methylphenol	ug/L	1.2U	100	83.3	94.4	82.3	94	99	0-181	14	40		
4-Bromophenylphenyl ether	ug/L	0.63U	100	83.3	90.7	72.6	91	87	53-127	22	40		
4-Chloro-3-methylphenol	ug/L	0.59U	100	83.3	73.5	57.6	73	69	22-147	24	40		
4-Chlorophenylphenyl ether	ug/L	0.60U	100	83.3	80.4	64.8	80	78	25-158	21	40		
4-Nitrophenol	ug/L	1.0U	100	83.3	54.4	40.6	54	49	10-132	29	40		
Acenaphthylene	ug/L	0.90U	100	83.3	79.7	62.8	80	75	33-145	24	40		
Anthracene	ug/L	0.57U	100	83.3	83.3	67.0	83	80	27-133	22	40		
Benmidine	ug/L	0.73U	100	83.3	1.5U	1.3U	.9	0	0-99		40		
Benzo(a)anthracene	ug/L	0.60U	100	83.3	88.2	74.4	88	89	33-143	17	40		
Benzo(a)pyrene	ug/L	0.55U	100	83.3	86.7	72.1	87	87	17-163	18	40		
Benzo(b)fluoranthene	ug/L	0.59U	100	83.3	98.9	82.4	99	99	24-159	18	40		
Benzo(g,h,i)perylene	ug/L	0.64U	100	83.3	105	95.4	105	114	0-219	10	40		
Benzo(k)fluoranthene	ug/L	0.48U	100	83.3	73.9	71.8	74	86	11-162	3	40		
bis(2-Chloroethoxy)methane	ug/L	2.8U	100	83.3	67.5	61.9	67	74	33-184	9	40		
bis(2-Chloroethyl) ether	ug/L	0.71U	100	83.3	38.8	29.9	39	36	12-158	26	40		
bis(2-Chloroisopropyl) ether	ug/L	0.69U	100	83.3	57.2	44.3	57	53	36-166	25	40		
bis(2-Ethylhexyl)phthalate	ug/L	0.79	100	83.3	85.4	74.4	85	88	10-158	14	40		
Butylbenzylphthalate	ug/L	0.68U	100	83.3	91.9	78.3	92	94	0-152	16	40		
Chrysene	ug/L	0.35U	100	83.3	86.6	75.6	87	91	17-168	14	40		
Di-n-butylphthalate	ug/L	0.39U	100	83.3	83.7	73.1	84	88	10-118	13	40		
Di-n-octylphthalate	ug/L	0.85U	100	83.3	89.6	78.9	90	95	10-146	13	40		
Dibenz(a,h)anthracene	ug/L	0.61U	100	83.3	104	95.0	104	114	0-227	9	40		
Diethylphthalate	ug/L	0.48U	100	83.3	77.1	65.2	77	78	10-114	17	40		
Dimethylphthalate	ug/L	0.61U	100	83.3	79.8	65.3	80	78	10-112	20	40		
Fluoranthene	ug/L	0.51U	100	83.3	82.2	70.9	82	85	26-137	15	40		
Fluorene	ug/L	0.53U	100	83.3	79.1	64.2	79	77	59-121	21	40		
Hexachloro-1,3-butadiene	ug/L	1.0U	100	83.3	67.2	50.8	67	61	24-116	28	40		
Hexachlorobenzene	ug/L	0.76U	100	83.3	88.0	73.5	88	88	0-152	18	40		
Hexachlorocyclopentadiene	ug/L	1.2U	100	83.3	69.0	55.6	69	67	10-100	22	40		
Hexachloroethane	ug/L	0.67U	100	83.3	56.7	42.7	57	51	40-113	28	40		
Indeno(1,2,3-cd)pyrene	ug/L	0.69U	100	83.3	104	93.6	104	112	0-171	10	40		
Isophorone	ug/L	0.69U	100	83.3	68.6	52.3	69	63	21-196	27	40		

QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343118				343119				% Rec Limits	Max RPD	Qual
	Units	3550204015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
N-Nitroso-di-n-propylamine	ug/L	0.89U	100	83.3	56.9	44.4	57	53	10-230	25	40
N-Nitrosodimethylamine	ug/L	0.92U	100	83.3	52.2	36.8	52	44	19-58	35	40
N-Nitrosodiphenylamine	ug/L	0.47U	100	83.3	89.3	73.9	89	89	55-104	19	40
Naphthalene	ug/L	0.74U	100	83.3	83.0	64.5	83	77	21-133	25	40
Nitrobenzene	ug/L	1.0U	100	83.3	78.2	61.4	78	74	35-180	24	40
Pentachlorophenol	ug/L	0.62U	100	83.3	98.5	83.0	99	100	14-176	17	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
Pyrene	ug/L	0.64U	100	83.3	88.6	77.5	89	93	52-115	13	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		



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: OEXT/7558 Analysis Method: EPA 8081
 QC Batch Method: EPA 3546 Analysis Description: 8081 GCS Pesticides
 Associated Lab Samples: 3550290004

METHOD BLANK: 344116 Matrix: Solid
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/kg	0.13U	1.7	02/22/12 16:29	
4,4'-DDE	ug/kg	0.061U	1.7	02/22/12 16:29	
4,4'-DDT	ug/kg	0.096U	1.7	02/22/12 16:29	
Aldrin	ug/kg	0.058U	1.7	02/22/12 16:29	
alpha-BHC	ug/kg	0.069U	1.7	02/22/12 16:29	
beta-BHC	ug/kg	0.077U	1.7	02/22/12 16:29	
Chlordane (Technical)	ug/kg	15.9U	17.0	02/22/12 16:29	
delta-BHC	ug/kg	0.087U	1.7	02/22/12 16:29	
Dieldrin	ug/kg	0.040U	1.7	02/22/12 16:29	
Endosulfan I	ug/kg	0.025U	1.7	02/22/12 16:29	
Endosulfan II	ug/kg	0.057U	1.7	02/22/12 16:29	
Endosulfan sulfate	ug/kg	0.043U	1.7	02/22/12 16:29	
Endrin	ug/kg	0.052U	1.7	02/22/12 16:29	
Endrin aldehyde	ug/kg	0.066U	1.7	02/22/12 16:29	
Endrin ketone	ug/kg	0.080U	1.7	02/22/12 16:29	
gamma-BHC (Lindane)	ug/kg	0.15U	1.7	02/22/12 16:29	
Heptachlor	ug/kg	0.039U	1.7	02/22/12 16:29	
Heptachlor epoxide	ug/kg	0.11U	1.7	02/22/12 16:29	
Methoxychlor	ug/kg	1.0U	1.7	02/22/12 16:29	
Toxaphene	ug/kg	7.3U	17.0	02/22/12 16:29	
Decachlorobiphenyl (S)	%	108	70-130	02/22/12 16:29	
Tetrachloro-m-xylene (S)	%	96	70-130	02/22/12 16:29	

LABORATORY CONTROL SAMPLE: 344117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	16.7	15.9	95	70-137	
4,4'-DDE	ug/kg	16.7	16.7	100	70-133	
4,4'-DDT	ug/kg	16.7	19.8	119	66-149	
Aldrin	ug/kg	16.7	16.2	97	64-138	
alpha-BHC	ug/kg	16.7	16.5	99	66-132	
beta-BHC	ug/kg	16.7	16.1	96	70-140	
Chlordane (Technical)	ug/kg		15.9U			
delta-BHC	ug/kg	16.7	13.6		27-150	
Dieldrin	ug/kg	16.7	16.6	100	70-132	
Endosulfan I	ug/kg	16.7	16.3	98	70-131	
Endosulfan II	ug/kg	16.7	16.2	97	70-135	
Endosulfan sulfate	ug/kg	16.7	16.2	97	57-150	
Endrin	ug/kg	16.7	18.6	111	70-134	
Endrin aldehyde	ug/kg	16.7	14.4	86	64-130	
Endrin ketone	ug/kg	16.7	16.9	101	64-148	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

LABORATORY CONTROL SAMPLE: 344117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
gamma-BHC (Lindane)	ug/kg	16.7	16.6	99	68-135	
Heptachlor	ug/kg	16.7	17.6	106	70-139	
Heptachlor epoxide	ug/kg	16.7	16.3	98	70-137	
Methoxychlor	ug/kg	16.7	18.8	113	70-147	
Toxaphene	ug/kg		7.3U			
Decachlorobiphenyl (S)	%			103	70-130	
Tetrachloro-m-xylene (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344291 344292

Parameter	Units	3550436001		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	MS Result	MSD Result					
4,4'-DDD	ug/kg	0.18U	22.8	22.8	16.9	18.6	74	81	70-137	9	40	
4,4'-DDE	ug/kg	0.084U	22.8	22.8	18.4	20.1	81	88	70-133	9	40	
4,4'-DDT	ug/kg	0.13U	22.8	22.8	22.7	23.1	99	101	66-149	2	40	
Aldrin	ug/kg	0.079U	22.8	22.8	19.0	20.2	83	88	64-138	6	40	
alpha-BHC	ug/kg	0.095U	22.8	22.8	19.6	20.7	86	91	66-132	6	40	
beta-BHC	ug/kg	0.11U	22.8	22.8	18.4	19.4	80	85	70-140	6	40	
Chlordane (Technical)	ug/kg	21.8U			21.8U	21.8U						
delta-BHC	ug/kg	0.12U	22.8	22.8	15.5	15.2	68	66	27-150	2	40	
Dieldrin	ug/kg	0.055U	22.8	22.8	18.7	20.3	82	88	70-132	8	40	
Endosulfan I	ug/kg	0.034U	22.8	22.8	18.6	20.1	82	88	70-131	8	40	
Endosulfan II	ug/kg	0.078U	22.8	22.8	18.1	19.3	79	84	70-135	7	40	
Endosulfan sulfate	ug/kg	0.059U	22.8	22.8	18.2	19.2	79	84	57-150	5	40	
Endrin	ug/kg	0.071U	22.8	22.8	20.5	22.1	90	97	70-134	8	40	
Endrin aldehyde	ug/kg	0.090U	22.8	22.8	17.9	19.3	79	84	64-130	7	40	
Endrin ketone	ug/kg	0.11U	22.8	22.8	19.2	20.5	84	90	64-148	7	40	
gamma-BHC (Lindane)	ug/kg	0.20U	22.8	22.8	19.3	20.5	85	89	68-135	6	40	
Heptachlor	ug/kg	0.053U	22.8	22.8	20.4	21.6	89	94	70-139	6	40	
Heptachlor epoxide	ug/kg	0.15U	22.8	22.8	19.0	20.5	83	90	70-137	8	40	
Methoxychlor	ug/kg	1.4U	22.8	22.8	20.7	22.2	91	97	70-147	7	40	
Toxaphene	ug/kg	10.1U			10.1U	10.1U						
Decachlorobiphenyl (S)	%						86	92	70-130			
Tetrachloro-m-xylene (S)	%						89	97	70-130			



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: OEXT/7581 Analysis Method: EPA 8081
 QC Batch Method: EPA 3510 Analysis Description: 8081 GCS TCLP Pesticides
 Associated Lab Samples: 3550290004

METHOD BLANK: 345284 Matrix: Water
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	0.0025U	0.0050	02/24/12 17:36	
Endrin	mg/L	0.00050U	0.0010	02/24/12 17:36	
gamma-BHC (Lindane)	mg/L	0.00050U	0.0010	02/24/12 17:36	
Heptachlor	mg/L	0.00050U	0.0010	02/24/12 17:36	
Heptachlor epoxide	mg/L	0.00050U	0.0010	02/24/12 17:36	
Methoxychlor	mg/L	0.00050U	0.0010	02/24/12 17:36	
Toxaphene	mg/L	0.0025U	0.0050	02/24/12 17:36	
Decachlorobiphenyl (S)	%	101	70-130	02/24/12 17:36	
Tetrachloro-m-xylene (S)	%	93	70-130	02/24/12 17:36	

LABORATORY CONTROL SAMPLE & LCSD: 345285

345783

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Endrin	mg/L	.005	0.0047	0.0047	94	94	70-130	.6	40	
gamma-BHC (Lindane)	mg/L	.005	0.0045	0.0045	89	89	70-130	.04	40	
Heptachlor	mg/L	.005	0.0047	0.0048	95	97	70-130	2	40	
Heptachlor epoxide	mg/L	.005	0.0047	0.0047	94	94	70-130	.1	40	
Methoxychlor	mg/L	.005	0.0049	0.0050	97	100	70-130	2	40	
Decachlorobiphenyl (S)	%				96	90	70-130			
Tetrachloro-m-xylene (S)	%				87	79	70-130			



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: OEXT/7559 Analysis Method: EPA 8082
 QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
 Associated Lab Samples: 3550290004

METHOD BLANK: 344119 Matrix: Solid
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	10.3U	17.0	02/22/12 15:16	
PCB-1221 (Aroclor 1221)	ug/kg	8.0U	17.0	02/22/12 15:16	
PCB-1232 (Aroclor 1232)	ug/kg	8.5U	17.0	02/22/12 15:16	
PCB-1242 (Aroclor 1242)	ug/kg	2.8U	17.0	02/22/12 15:16	
PCB-1248 (Aroclor 1248)	ug/kg	10.8U	17.0	02/22/12 15:16	
PCB-1254 (Aroclor 1254)	ug/kg	6.8U	17.0	02/22/12 15:16	
PCB-1260 (Aroclor 1260)	ug/kg	10.4U	17.0	02/22/12 15:16	
Decachlorobiphenyl (S)	%	109	24.5-162	02/22/12 15:16	
Tetrachloro-m-xylene (S)	%	94	19.6-135	02/22/12 15:16	

LABORATORY CONTROL SAMPLE: 344120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	83.3	85.6	103	62.4-118	
PCB-1260 (Aroclor 1260)	ug/kg	83.3	86.8	104	14.4-190	
Decachlorobiphenyl (S)	%			110	24.5-162	
Tetrachloro-m-xylene (S)	%			106	19.6-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344293 344294

Parameter	Units	3550290004		344294		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
PCB-1016 (Aroclor 1016)	ug/kg	203U	1710	1710	2030	6220	119	365	62.4-118	102	40	J(D6), J(M1)
PCB-1260 (Aroclor 1260)	ug/kg	204U	1710	1710	1430	1510	84	89	14.4-190	6	40	
Decachlorobiphenyl (S)	%						131	113	24.5-162			
Tetrachloro-m-xylene (S)	%						104	110	19.6-135			



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: OEXT/7548 Analysis Method: EPA 8151
 QC Batch Method: EPA 3510 Analysis Description: 8151 GCS Herbicides TCLP
 Associated Lab Samples: 3550290004

METHOD BLANK: 343632 Matrix: Water
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	0.0050U	0.010	02/22/12 22:37	
2,4-D	mg/L	0.0050U	0.010	02/22/12 22:37	
2,4-DCAA (S)	%	107	70-130	02/22/12 22:37	

LABORATORY CONTROL SAMPLE: 343633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	.012	0.0094	78	70-130	
2,4-D	mg/L	.06	0.048	80	70-130	
2,4-DCAA (S)	%			88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343821 343822

Parameter	Units	92112032001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result					
2,4,5-TP (Silvex)	mg/L	ND	.012	0.011	.012	0.0086	92	71	70-130	40	
2,4-D	mg/L	ND	.06	0.057	.06	0.045	96	75	70-130	24	40
2,4-DCAA (S)	%						98	126	70-130		

QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

QC Batch: OEXT/7569 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 3550290004

METHOD BLANK: 344891 Matrix: Solid
Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	28.5U	170	02/23/12 10:27	
1,2-Dichlorobenzene	ug/kg	25.2U	170	02/23/12 10:27	
1,3-Dichlorobenzene	ug/kg	23.9U	170	02/23/12 10:27	
1,4-Dichlorobenzene	ug/kg	24.5U	170	02/23/12 10:27	
2,4,6-Trichlorophenol	ug/kg	25.2U	170	02/23/12 10:27	
2,4-Dichlorophenol	ug/kg	23.0U	170	02/23/12 10:27	
2,4-Dimethylphenol	ug/kg	30.6U	170	02/23/12 10:27	
2,4-Dinitrophenol	ug/kg	17.1U	670	02/23/12 10:27	
2,4-Dinitrotoluene	ug/kg	20.5U	170	02/23/12 10:27	
2,6-Dinitrotoluene	ug/kg	17.0U	170	02/23/12 10:27	
2-Chloronaphthalene	ug/kg	30.2U	170	02/23/12 10:27	
2-Chlorophenol	ug/kg	25.2U	170	02/23/12 10:27	
2-Methylphenol(o-Cresol)	ug/kg	24.8U	170	02/23/12 10:27	
2-Nitrophenol	ug/kg	27.5U	170	02/23/12 10:27	
3&4-Methylphenol(m&p Cresol)	ug/kg	51.0U	170	02/23/12 10:27	
3,3'-Dichlorobenzidine	ug/kg	17.8U	670	02/23/12 10:27	
4,6-Dinitro-2-methylphenol	ug/kg	18.8U	670	02/23/12 10:27	
4-Bromophenylphenyl ether	ug/kg	19.5U	170	02/23/12 10:27	
4-Chloro-3-methylphenol	ug/kg	20.6U	670	02/23/12 10:27	
4-Chlorophenylphenyl ether	ug/kg	21.4U	170	02/23/12 10:27	
4-Nitrophenol	ug/kg	25.3U	170	02/23/12 10:27	
Acenaphthylene	ug/kg	3.9U	33.0	02/23/12 10:27	
Anthracene	ug/kg	2.0U	33.0	02/23/12 10:27	
Benzidine	ug/kg	18.6U	830	02/23/12 10:27	
Benzo(a)anthracene	ug/kg	3.0U	33.0	02/23/12 10:27	
Benzo(a)pyrene	ug/kg	3.6U	33.0	02/23/12 10:27	
Benzo(b)fluoranthene	ug/kg	2.3U	33.0	02/23/12 10:27	
Benzo(g,h,i)perylene	ug/kg	3.0U	33.0	02/23/12 10:27	
Benzo(k)fluoranthene	ug/kg	4.9U	33.0	02/23/12 10:27	
bis(2-Chloroethoxy)methane	ug/kg	27.3U	170	02/23/12 10:27	
bis(2-Chloroethyl) ether	ug/kg	26.1U	170	02/23/12 10:27	
bis(2-Chloroisopropyl) ether	ug/kg	26.8U	170	02/23/12 10:27	
bis(2-Ethylhexyl)phthalate	ug/kg	24.8U	170	02/23/12 10:27	
Butylbenzylphthalate	ug/kg	19.1U	170	02/23/12 10:27	
Chrysene	ug/kg	3.0U	33.0	02/23/12 10:27	
Di-n-butylphthalate	ug/kg	21.7U	170	02/23/12 10:27	
Di-n-octylphthalate	ug/kg	17.4U	170	02/23/12 10:27	
Dibenz(a,h)anthracene	ug/kg	3.5U	33.0	02/23/12 10:27	
Diethylphthalate	ug/kg	23.4U	170	02/23/12 10:27	
Dimethylphthalate	ug/kg	17.9U	170	02/23/12 10:27	
Fluoranthene	ug/kg	3.7U	33.0	02/23/12 10:27	
Fluorene	ug/kg	2.5U	33.0	02/23/12 10:27	
Hexachloro-1,3-butadiene	ug/kg	24.2U	170	02/23/12 10:27	

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

METHOD BLANK: 344891 Matrix: Solid

Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachlorobenzene	ug/kg	19.2U	170	02/23/12 10:27	
Hexachlorocyclopentadiene	ug/kg	24.0U	670	02/23/12 10:27	
Hexachloroethane	ug/kg	30.9U	170	02/23/12 10:27	
Indeno(1,2,3-cd)pyrene	ug/kg	3.5U	33.0	02/23/12 10:27	
Isophorone	ug/kg	25.1U	170	02/23/12 10:27	
N-Nitroso-di-n-propylamine	ug/kg	24.2U	170	02/23/12 10:27	
N-Nitrosodimethylamine	ug/kg	25.4U	170	02/23/12 10:27	N2
N-Nitrosodiphenylamine	ug/kg	20.6U	170	02/23/12 10:27	
Naphthalene	ug/kg	3.5U	33.0	02/23/12 10:27	
Nitrobenzene	ug/kg	26.8U	170	02/23/12 10:27	
Pentachlorophenol	ug/kg	21.5U	670	02/23/12 10:27	
Phenanthrene	ug/kg	3.1U	33.0	02/23/12 10:27	
Phenol	ug/kg	31.4U	170	02/23/12 10:27	
Pyrene	ug/kg	4.0U	33.0	02/23/12 10:27	
2,4,6-Tribromophenol (S)	%	97	10-110	02/23/12 10:27	
2-Fluorobiphenyl (S)	%	77	18-110	02/23/12 10:27	
2-Fluorophenol (S)	%	75	18-110	02/23/12 10:27	
Nitrobenzene-d5 (S)	%	42	10-110	02/23/12 10:27	
Phenol-d6 (S)	%	85	10-110	02/23/12 10:27	
Terphenyl-d14 (S)	%	81	10-123	02/23/12 10:27	

LABORATORY CONTROL SAMPLE: 344892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1280	77	51-110	
1,2-Dichlorobenzene	ug/kg	1670	1260	75	51-110	
1,3-Dichlorobenzene	ug/kg	1670	1210	72	50-110	
1,4-Dichlorobenzene	ug/kg	1670	1240	74	51-110	
2,4,6-Trichlorophenol	ug/kg	1670	1420	85	58-110	
2,4-Dichlorophenol	ug/kg	1670	1510	91	57-110	
2,4-Dimethylphenol	ug/kg	1670	1410	84	59-110	
2,4-Dinitrophenol	ug/kg	1670	1750	105	39-113	
2,4-Dinitrotoluene	ug/kg	1670	1810	109	68-110	
2,6-Dinitrotoluene	ug/kg	1670	1580	95	66-110	
2-Chloronaphthalene	ug/kg	1670	1270	76	59-110	
2-Chlorophenol	ug/kg	1670	1390	84	51-110	
2-Methylphenol(o-Cresol)	ug/kg	1670	1500	90	56-110	
2-Nitrophenol	ug/kg	1670	1410	85	56-110	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1610	97	55-110	
3,3'-Dichlorobenzidine	ug/kg	1670	1510	90	66-110	
4,6-Dinitro-2-methylphenol	ug/kg	1670	1530	92	55-113	
4-Bromophenylphenyl ether	ug/kg	1670	1310	78	65-110	
4-Chloro-3-methylphenol	ug/kg	1670	1670	100	64-110	
4-Chlorophenylphenyl ether	ug/kg	1670	1420	85	58-111	
4-Nitrophenol	ug/kg	1670	1930	116	49-136	

Date: 02/27/2012 04:40 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Annual Priority Pollutant
Pace Project No.: 3550290

LABORATORY CONTROL SAMPLE: 344892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthylene	ug/kg	1670	1380	83	41-120	
Anthracene	ug/kg	1670	1420	85	45-120	
Benzidine	ug/kg	1670	607 I	36	26-110	
Benzo(a)anthracene	ug/kg	1670	1540	93	44-120	
Benzo(a)pyrene	ug/kg	1670	1580	95	44-123	
Benzo(b)fluoranthene	ug/kg	1670	1760	106	37-124	
Benzo(g,h,i)perylene	ug/kg	1670	1370	82	42-125	
Benzo(k)fluoranthene	ug/kg	1670	1370	82	44-126	
bis(2-Chloroethoxy)methane	ug/kg	1670	1260	76	53-110	
bis(2-Chloroethyl) ether	ug/kg	1670	1300	78	45-110	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1300	78	51-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1710	103	71-110	
Butylbenzylphthalate	ug/kg	1670	1640	98	72-110	
Chrysene	ug/kg	1670	1300	78	45-120	
Di-n-butylphthalate	ug/kg	1670	1620	97	67-115	
Di-n-octylphthalate	ug/kg	1670	1650	99	71-110	
Dibenz(a,h)anthracene	ug/kg	1670	1400	84	43-124	
Diethylphthalate	ug/kg	1670	1500	90	65-112	
Dimethylphthalate	ug/kg	1670	1410	85	63-111	
Fluoranthene	ug/kg	1670	1720	103	45-120	
Fluorene	ug/kg	1670	1510	91	42-120	
Hexachloro-1,3-butadiene	ug/kg	1670	1220	73	51-110	
Hexachlorobenzene	ug/kg	1670	1410	85	65-110	
Hexachlorocyclopentadiene	ug/kg	1670	904	54	18-112	
Hexachloroethane	ug/kg	1670	1180	71	49-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1370	82	43-123	
Isophorone	ug/kg	1670	1300	78	52-110	
N-Nitroso-di-n-propylamine	ug/kg	1670	1260	76	46-110	
N-Nitrosodimethylamine	ug/kg	1670	1120	67	42-110 N2	
N-Nitrosodiphenylamine	ug/kg	1670	1330	80	66-110	
Naphthalene	ug/kg	1670	1350	81	40-120	
Nitrobenzene	ug/kg	1670	1250	75	49-110	
Pentachlorophenol	ug/kg	1670	1800	108	49-117	
Phenanthrene	ug/kg	1670	1370	82	36-125	
Phenol	ug/kg	1670	1500	90	52-110	
Pyrene	ug/kg	1670	1500	90	41-123	
2,4,6-Tribromophenol (S)	%			109	10-110	
2-Fluorobiphenyl (S)	%			74	18-110	
2-Fluorophenol (S)	%			73	18-110	
Nitrobenzene-d5 (S)	%			43	10-110	
Phenol-d6 (S)	%			90	10-110	
Terphenyl-d14 (S)	%			92	10-123	



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: OEXT7577 Analysis Method: EPA 8270
 QC Batch Method: EPA 3510 Analysis Description: 8270 TCLP MSSV
 Associated Lab Samples: 3550290004

METHOD BLANK: 344907 Matrix: Water
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	mg/L	0.010U	0.050	02/24/12 13:07	
2,4,5-Trichlorophenol	mg/L	0.0052U	0.050	02/24/12 13:07	
2,4,6-Trichlorophenol	mg/L	0.0069U	0.050	02/24/12 13:07	
2,4-Dinitrotoluene	mg/L	0.0053U	0.13	02/24/12 13:07	
2-Methylphenol(o-Cresol)	mg/L	0.015U	0.050	02/24/12 13:07	
3&4-Methylphenol(m&p Cresol)	mg/L	0.0066U	0.10	02/24/12 13:07	
Hexachloro-1,3-butadiene	mg/L	0.011U	0.050	02/24/12 13:07	
Hexachlorobenzene	mg/L	0.0080U	0.050	02/24/12 13:07	
Hexachloroethane	mg/L	0.0071U	0.050	02/24/12 13:07	
Nitrobenzene	mg/L	0.011U	0.050	02/24/12 13:07	
Pentachlorophenol	mg/L	0.0066U	0.20	02/24/12 13:07	
Pyridine	mg/L	0.015U	0.20	02/24/12 13:07	
2,4,6-Tribromophenol (S)	%	88	40.5-122	02/24/12 13:07	
2-Fluorobiphenyl (S)	%	73	53.5-97.2	02/24/12 13:07	
2-Fluorophenol (S)	%	37	13.2-66.5	02/24/12 13:07	
Nitrobenzene-d5 (S)	%	75	49.6-97.6	02/24/12 13:07	
Phenol-d6 (S)	%	24	10-57.3	02/24/12 13:07	
Terphenyl-d14 (S)	%	85	62.1-109	02/24/12 13:07	

LABORATORY CONTROL SAMPLE: 344908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	mg/L	.5	0.32	64	39.3-83.6	
2,4,5-Trichlorophenol	mg/L	.5	0.37	75	42.7-114	
2,4,6-Trichlorophenol	mg/L	.5	0.39	79	41.2-111	
2,4-Dinitrotoluene	mg/L	.5	0.42	84	58-111	
2-Methylphenol(o-Cresol)	mg/L	.5	0.28	56	41.4-83.9	
3&4-Methylphenol(m&p Cresol)	mg/L	.5	0.26	52	16.1-42.4 J(L0)	
Hexachloro-1,3-butadiene	mg/L	.5	0.35	69	20.7-99.2	
Hexachlorobenzene	mg/L	.5	0.39	78	62.6-106	
Hexachloroethane	mg/L	.5	0.31	63	24.3-91.5	
Nitrobenzene	mg/L	.5	0.36	71	46.4-95	
Pentachlorophenol	mg/L	.5	0.49	97	10-207	
Pyridine	mg/L	.5	0.10 I	20	10-72.9	
2,4,6-Tribromophenol (S)	%			88	40.5-122	
2-Fluorobiphenyl (S)	%			70	53.5-97.2	
2-Fluorophenol (S)	%			35	13.2-66.5	
Nitrobenzene-d5 (S)	%			71	49.6-97.6	
Phenol-d6 (S)	%			25	10-57.3	
Terphenyl-d14 (S)	%			80	62.1-109	



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

Parameter	Units	3550290004		345219		345220		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1,4-Dichlorobenzene	mg/L	0.010U	.5	.5	0.30	0.31	61	61	39.3-83.	1	40		
2,4,5-Trichlorophenol	mg/L	0.0052 U	.5	.5	0.38	0.38	76	76	42.7-114	3	40		
2,4,6-Trichlorophenol	mg/L	0.0069 U	.5	.5	0.39	0.40	79	81	41.2-111	2	40		
2,4-Dinitrotoluene	mg/L	0.0053 U	.5	.5	0.42	0.42	85	84	58-111	1	40		
2-Methylphenol(o-Cresol)	mg/L	0.015U	.5	.5	0.29	0.30	58	59	41.4-83.	1	40		
3&4-Methylphenol(m&p Cresol)	mg/L	0.0066 U	.5	.5	0.27	0.28	54	55	16.1-42.	1	40	J(MO)	
Hexachloro-1,3-butadiene	mg/L	0.011U	.5	.5	0.32	0.32	65	64	20.7-99.	1	40		
Hexachlorobenzene	mg/L	0.0080 U	.5	.5	0.39	0.40	79	80	62.6-106	1	40		
Hexachloroethane	mg/L	0.0071 U	.5	.5	0.30	0.30	60	60	24.3-91.	4	40		
Nitrobenzene	mg/L	0.011U	.5	.5	0.32	0.33	64	66	46.4-95	3	40		
Pentachlorophenol	mg/L	0.0066 U	.5	.5	0.48	0.49	96	97	10-207	9	40		
Pyridine	mg/L	0.015U	.5	.5	0.20	0.20	39	39	10-72.9	8	40		
2,4,6-Tribromophenol (S)	%						90	88	40.5-122				
2-Fluorobiphenyl (S)	%						69	69	53.5-97.				
2-Fluorophenol (S)	%						37	37	13.2-66.				
Nitrobenzene-d5 (S)	%						65	68	49.6-97.				
Phenol-d6 (S)	%						27	27	10-57.3				
Terphenyl-d14 (S)	%						78	78	62.1-109				



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: PMST/1104 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 3550290004

SAMPLE DUPLICATE: 343519

Parameter	Units	3549996001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.10U	0.10U		10	

SAMPLE DUPLICATE: 343520

Parameter	Units	3550235002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.9	10	11	10	J(D6)

SAMPLE DUPLICATE: 343521

Parameter	Units	3550290004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	85.3	85.3	.05	10	



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: WETA/15347 Analysis Method: EPA 9012
 QC Batch Method: EPA 9012 Analysis Description: 9012 Cyanide
 Associated Lab Samples: 3550290004

METHOD BLANK: 344558 Matrix: Solid
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/kg	0.12U	0.25	02/23/12 06:24	

LABORATORY CONTROL SAMPLE: 344559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	1.2	1.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344560 344561

Parameter	Units	3550290004		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Cyanide	mg/kg	3.2	8.2	8.2	9.1	8.9	71	69	80-120	2	20	J(M1)	



QUALITY CONTROL DATA

Project: Annual Priority Pollutant
 Pace Project No.: 3550290

QC Batch: WETA/15390 Analysis Method: EPA 9066
 QC Batch Method: EPA 9066 Analysis Description: 9066 Total Phenolics
 Associated Lab Samples: 3550290004

METHOD BLANK: 345683 Matrix: Solid
 Associated Lab Samples: 3550290004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/kg	0.63U	1.3	02/23/12 17:21	

LABORATORY CONTROL SAMPLE: 345684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/kg	66.2	69.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 345685 345686

Parameter	Units	3549212001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Phenolics, Total Recoverable	mg/kg	8.0	502	522	517	548	102	103	80-120	6	20	

QUALIFIERS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

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.

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

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

BATCH QUALIFIERS

Batch: OEXT/7581

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/4856

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

1p Sample does not meet method 5035 criteria due to improper sampling. Therefore, sample was analyzed under method 5030. Sample analyzed from soil jar after 48 hours from collection.

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(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(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(P6) Estimated Value. Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.

J(S1) Estimated Value. Surrogate recovery outside laboratory control limits (confirmed by re-analysis).

J(S5) Estimated Value. Surrogate recovery outside control limits due to matrix interferences (not 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.



QUALIFIERS

Project: Annual Priority Pollutant
Pace Project No.: 3550290

ANALYTE QUALIFIERS

N2 The lab does not hold TNI accreditation for this parameter.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Annual Priority Pollutant
Pace Project No.: 3550290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3550290001	Influent East	EPA 608 SF	OEXT/7537	EPA 608	GCSV/5425
3550290002	Influent West	EPA 608 SF	OEXT/7537	EPA 608	GCSV/5425
3550290003	Combined Effluent	EPA 608 SF	OEXT/7537	EPA 608	GCSV/5425
3550290004	Cake	EPA 3546	OEXT/7558	EPA 8081	GCSV/5432
3550290004	Cake	EPA 3510	OEXT/7581	EPA 8081	GCSV/5448
3550290004	Cake	EPA 3546	OEXT/7559	EPA 8082	GCSV/5434
3550290004	Cake	EPA 3510	OEXT/7548	EPA 8151	GCSV/5427
3550290001	Influent East	EPA 200.7	MPRP/7499	EPA 200.7	ICP/5088
3550290002	Influent West	EPA 200.7	MPRP/7499	EPA 200.7	ICP/5088
3550290003	Combined Effluent	EPA 200.7	MPRP/7499	EPA 200.7	ICP/5088
3550290004	Cake	EPA 3050	MPRP/7517	EPA 6010	ICP/5094
3550290004	Cake	EPA 3010	MPRP/7523	EPA 6010	ICP/5099
3550290001	Influent East	EPA 200.8	MPRP/7500	EPA 200.8	ICPM/3202
3550290002	Influent West	EPA 200.8	MPRP/7500	EPA 200.8	ICPM/3202
3550290003	Combined Effluent	EPA 200.8	MPRP/7500	EPA 200.8	ICPM/3202
3550290001	Influent East	EPA 245.1	MERP/2502	EPA 245.1	MERC/2505
3550290002	Influent West	EPA 245.1	MERP/2502	EPA 245.1	MERC/2505
3550290003	Combined Effluent	EPA 245.1	MERP/2502	EPA 245.1	MERC/2505
3550290004	Cake	EPA 7470	MERP/2513	EPA 7470	MERC/2515
3550290004	Cake	EPA 7471	MERP/2510	EPA 7471	MERC/2512
3550290001	Influent East	EPA 625	OEXT/7530	EPA 625	MSSV/3001
3550290002	Influent West	EPA 625	OEXT/7530	EPA 625	MSSV/3001
3550290003	Combined Effluent	EPA 625	OEXT/7530	EPA 625	MSSV/3001
3550290004	Cake	EPA 3546	OEXT/7569	EPA 8270	MSSV/3011
3550290004	Cake	EPA 3510	OEXT/7577	EPA 8270	MSSV/3017
3550290001	Influent East	EPA 624	MSV/4821		
3550290002	Influent West	EPA 624	MSV/4821		
3550290003	Combined Effluent	EPA 624	MSV/4821		
3550290004	Cake	EPA 8260	MSV/4830		
3550290004	Cake	EPA 8260	MSV/4656		
3550290001	Influent East	EPA 1664A	OEXT/7579		
3550290002	Influent West	EPA 1664A	OEXT/7579		
3550290003	Combined Effluent	EPA 1664A	OEXT/7579		
3550290004	Cake	ASTM D2974-87	PMST/1104		
3550290004	Cake	EPA 9012	WETA/15347	EPA 9012	WETA/15358
3550290004	Cake	EPA 9066	WETA/15390	EPA 9066	WETA/15391



Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-682-4300

April 02, 2012

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

RE: Project: ANNUAL PRIORITY POLLUTANTS
Pace Project No.: 3553382

Dear Clive Powell:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 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,

Rosy Guima

rossy.guima@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ANNUAL PRIORITY POLLUTANTS
Pace Project No.: 3553382

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-10388
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Massachusetts Certification #: M-FL1264
Michigan Certification #: 8911
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 #: 68-00647
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

REPORT OF LABORATORY ANALYSIS

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3810 Park Central Blvd N
Pompano Beach, FL 33064
954-682-4300

SAMPLE SUMMARY

Project: ANNUAL PRIORITY POLLUTANTS
Pace Project No.: 3553382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3553382001	EFFLUENT 24 HR COMP	Water	03/28/12 23:00	03/29/12 15:35

REPORT OF LABORATORY ANALYSIS

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3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

SAMPLE ANALYTE COUNT

Project: ANNUAL PRIORITY POLLUTANTS
Pace Project No.: 3553382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3553382001	EFFLUENT 24 HR COMP	EPA 180.1	KDM	1	PASI-O
		EPA 365.1	AMD	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ANNUAL PRIORITY POLLUTANTS
 Pace Project No.: 3553382

Sample: EFFLUENT 24 HR COMP Lab ID: 3553382001 Collected: 03/28/12 23:00 Received: 03/29/12 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
180.1 Turbidity	Analytical Method: EPA 180.1								
Turbidity	1.9	NTU	0.20	0.20	1		03/30/12 13:46		
365.1 Orthophosphate as P	Analytical Method: EPA 365.1								
Orthophosphate as P	2.0	mg/L	0.020	0.013	5		03/30/12 08:04		J(M1)



QUALITY CONTROL DATA

Project: ANNUAL PRIORITY POLLUTANTS
 Pace Project No.: 3553382

QC Batch: WET/12589 Analysis Method: EPA 180.1
 QC Batch Method: EPA 180.1 Analysis Description: 180.1 Turbidity
 Associated Lab Samples: 3553382001

METHOD BLANK: 365585 Matrix: Water
 Associated Lab Samples: 3553382001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	0.20U	0.20	03/30/12 13:19	

LABORATORY CONTROL SAMPLE: 365586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	13.8	14.0	101	90-110	

SAMPLE DUPLICATE: 365587

Parameter	Units	3553382001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	1.9	2.0	3	20	

QUALITY CONTROL DATA

Project: ANNUAL PRIORITY POLLUTANTS
Pace Project No.: 3553382

QC Batch: WETA/16173 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Orthophosphate as P
Associated Lab Samples: 3553382001

METHOD BLANK: 365209 Matrix: Water
Associated Lab Samples: 3553382001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	0.0026U	0.0040	03/30/12 07:34	

LABORATORY CONTROL SAMPLE: 365210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.1	0.096	96	90-110	

MATRIX SPIKE SAMPLE: 365212

Parameter	Units	3553382001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	2.0	.5	2.4	88	90-110	J(M1)

SAMPLE DUPLICATE: 365211

Parameter	Units	3553382001 Result	Dup Result	RPD	Max RPD	Qualifiers
Orthophosphate as P	mg/L	2.0	2.0	1	20	



QUALIFIERS

Project: ANNUAL PRIORITY POLLUTANTS
Pace Project No.: 3553382

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.

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

ANALYTE QUALIFIERS

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ANNUAL PRIORITY POLLUTANTS
Pace Project No.: 3553382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3553382001	EFFLUENT 24 HR COMP	EPA 180.1	WET/12589		
3553382001	EFFLUENT 24 HR COMP	EPA 385.1	WETA/10173		

Sample Condition Upon Receipt Form (SCURF) Table Number: _____
 Client Name: M. AM. DANCE Project # 355-3282
 Courtes: Fed Ex UPS client Domestic Other

Tracking # _____
 Chain of Custody Present: Yes No Stubs Inset: Yes No
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used: 1109 Type of Use: Wet Blue: None
 Cooler Temperature: 41.6 (Visual) 0.46 (Correction Factor) (Actual) _____ (Desired) _____
 Date and Initials of Person Submitting: [Signature]

Receipt of samples satisfactory: Yes No Rush TAT requested on COC: _____

If Yes, then all conditions below were met. If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Reduplicated Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived Within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Container intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & definition of collection)	<input type="checkbox"/>
All conditions necessary for preservation are stated in the 2 comparisons with EPA recommendations.	<input type="checkbox"/>
No Handspaces in VOA Vials (-4000)	<input type="checkbox"/>

Client Notification Resolution: _____
 Person Contacted: _____
 Date/Time: _____
 Comments/Resolution (see back for additional comments): _____
 Project Manager Review: _____ Date: _____

Finished Product Information Only

F.P. Sample ID:	Size & Qty of Bottles Received
Production Code:	<input type="checkbox"/> 5 Gal
Dial/Titer Opened:	<input type="checkbox"/> 2.5 Gal
Number of Unopened Bottles Remaining:	<input type="checkbox"/> 1 Gal
	<input type="checkbox"/> 1.0 liter
	<input type="checkbox"/> 500 mL
	<input type="checkbox"/> 250 mL
	<input type="checkbox"/> Other: _____

Extra Sample In Chart: Yes No



Pace Analytical Services, Inc.
3810 Park Central Blvd N
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.

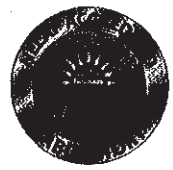
Sincerely,

Rossy Guima

rossy.guima@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, Miami Dade Water & Sewer
Department



REPORT OF LABORATORY ANALYSIS

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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
New Hampshire/NELAC Certification #: 2976
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

REPORT OF LABORATORY ANALYSIS



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

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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



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	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	0.72U	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	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		



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	1866-53-7	
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 Total 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	

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	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	

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)	0.0080U	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

Date: 03/05/2012 02:34 PM

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
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	0.000121	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	



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		

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	0.111	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	



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	

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		342249		342250		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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			



QUALITY CONTROL DATA

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

QC Batch: GCSVI/5408 Analysis Method: EPA 547
 QC Batch 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		3550282002		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	Result							
Glyphosate	ug/L	2.1U	50	50	45.5	42.8	91	86	70-130	6	30	

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	Max		Qual
										RPD	RPD	
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	Max		Qual
										RPD	RPD	
Mercury	mg/L	0.10U ug/L	.002	.002	0.0022	0.0022	109	108	70-130	.3	20	



QUALITY CONTROL DATA

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

QC Batch: MPRP/7499 Analysis Method: EPA 200.7
 QC Batch 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		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.									
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	

QUALITY CONTROL DATA

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

Parameter	Units	3550290003	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aluminum	mg/L	50.2 | 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 | ug/L	1.2	1.2	1.3	1.3	103	103	70-130	.8	20

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		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.									
Antimony	mg/L	0.50U	.05	.05	0.045	0.045	90	90	70-130	.04	20	
		ug/L										
Arsenic	mg/L	0.50U	.05	.05	0.048	0.049	95	97	70-130	2	20	
		ug/L										
Barium	mg/L	54.4	.05	.05	0.10	0.10	96	97	70-130	.6	20	
		ug/L										
Beryllium	mg/L	0.050U	.005	.005	0.0043	0.0043	86	85	70-130	.4	20	
		ug/L										
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	.05	.05	0.069	0.070	94	96	70-130	2	20	
		ug/L										
Selenium	mg/L	0.50U	.05	.05	0.047	0.047	93	94	70-130	.7	20	
		ug/L										

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	Max 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	Max 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 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 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		

QUALITY CONTROL DATA

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

QC Batch: MSV/4837 Analysis Method: EPA 524.2
QC Batch 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	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
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		

QUALITY CONTROL DATA

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343994 343995

Parameter	60115522001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
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		

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)

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	

QUALITY CONTROL DATA

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

Parameter	92112145001		343334										343335	
	Units	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			

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		MS Spike	MSD Spike	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Conc.	Result	Result	% Rec	% Rec				
2,4,5-TP (Silvex)	ug/L	ND	1	1	1	1.2	1.3	123	131	70-130	6	40	J(M1)
2,4-D	ug/L	ND	.5	.5	.5	0.62	0.63	124	127	70-130	2	40	
Dalapon	ug/L	ND	5	5	5	6.8	6.8	136	136	70-130	2	40	J(M0)
Dinoseb	ug/L	ND	1	1	1	1.2	1.3	119	125	70-130	5	40	
Pentachlorophenol	ug/L	ND	.2	.2	.2	0.22	0.23	110	117	70-130	6	40	
Picloram	ug/L	ND	.5	.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		MS Spike	MSD Spike	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Conc.	Result	Result	% Rec	% Rec				
2,4,5-TP (Silvex)	ug/L	ND	1	1	1	1.0	1.2	105	116	70-130	10	40	
2,4-D	ug/L	ND	.5	.5	.5	0.46	0.50	91	100	70-130	9	40	
Dalapon	ug/L	ND	5	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

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343247				343248		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
	Units	92112145001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				RPD	RPD	
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			



QUALITY CONTROL DATA

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

QC Batch: OEXT/7534 Analysis Method: EPA 525.2
 QC Batch 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.	343170		343171		% Rec Limits	Max RPD	Qual	
					MS Result	MSD Result	MS % Rec	MSD % Rec				
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			

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	Max		
										RPD	RPD	Qual
Endothall	ug/L	2.7U	50	50	7.7	6.7	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	Max		
										RPD	RPD	Qual
Endothall	ug/L	2.7U	50	50	15.7	16.8	31	34	80-120	7	40	J(M1)

QUALITY CONTROL DATA

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

QC Batch: OEXT/7552 Analysis Method: EPA 549.2
QC Batch 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	Max 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	Max RPD	Max RPD	Qual
Diquat	ug/L	0.15U	2	2	2.3	2.3	115	114	70-130	1	40	

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

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QUALITY CONTROL DATA

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

Parameter	3550204015		MS		MSD		343118		343119		% Rec	Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
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					

QUALITY CONTROL DATA

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

QC Batch: OEXT7538 Analysis Method: EPA 8081
QC Batch Method: EPA 3510 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		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.									
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		



QUALITY CONTROL DATA

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

QC Batch: SFL/3970 Analysis Method: SM 2120B
 QC Batch 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	

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	

QUALITY CONTROL DATA

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

QC Batch: SFL/3985 Analysis Method: SM 2540C
QC Batch 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	

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.	343057		343058		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
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	



QUALITY CONTROL DATA

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

QC Batch: SFL4091 Analysis Method: SM 4500-H+B
 QC Batch 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	



QUALITY CONTROL DATA

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

QC Batch: SFL/3968 Analysis Method: SM 5540C
 QC Batch 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	

QUALITY CONTROL DATA

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

QC Batch: SFL/4047 Analysis Method: SM 9222B
QC Batch 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		

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 344967 344968

Parameter	Units	3550351003		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Chloride	mg/L	3.5	1	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	2.5	U	50	50	45.1	45.2	89	89	90-110	.3	20 J(M1)

QUALITY CONTROL DATA

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

QC Batch: WETA/15341 Analysis Method: EPA 335.4
QC Batch 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	Max		
										RPD	RPD	Qual
Cyanide	mg/L	0.00551	.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	Max		
										RPD	RPD	Qual
Cyanide	mg/L	0.051	.05	.05	0.089	0.097	75	92	90-110	9	20	J(M1)

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	

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	

QUALITY CONTROL DATA

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

QC Batch: WETA/15302 Analysis Method: EPA 353.2
QC Batch 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	

QUALITY CONTROL DATA

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

QC Batch: WETA/15306 Analysis Method: EPA 365.4
QC Batch 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	



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	

ANALYTICAL RESULTS

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

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	

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	

QUALITY CONTROL DATA

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

QC Batch: RADC/11158 Analysis Method: EPA 903.1
QC Batch 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	

QUALITY CONTROL DATA

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

QC Batch: RADC/11159 Analysis Method: EPA 904.0
QC Batch 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	

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.

Date: 03/05/2012 02:34 PM

REPORT OF LABORATORY ANALYSIS

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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.

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		



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



Miami-Dade Water and Sewer Department

P.O. Box 330316 • 3071 SW 38th Avenue

Miami, Florida 33233-0316

T 305-665-7471

Carlos A. Gimenez, Mayor

miamidade.gov

April 24, 2012

Certified Mail: 7010 0290 0000 0693 2852

Return Receipt Requested

CNN: 56213

Mr. Joseph R. May, P.G.
UIC Program Manager
Florida Department of Environmental Protection
400 North Congress Avenue, Suite 200
West Palm Beach, Florida 33401
Email: Joseph.May@dep.state.fl.us

Subject: Annual Wastewater Stream Analysis South District Wastewater Treatment Plant (SDWWTP), Permits 61787-022-UO and 61787-023-UC.

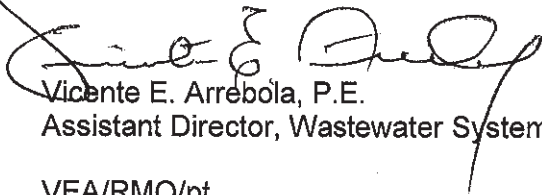
Dear Mr. May:

In accordance with FAC 528.450 and specific condition 3.i. of the referenced operation and construction permits, attached please find the 2012 sampling results for the annual wastewater stream analysis of primary, secondary drinking water standards, and minimum criteria.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me at (786) 552-8116 or Richard M. O'Rourke at (786) 552-8123, if there are any questions regarding this submittal.

Sincerely,



Vicente E. Arrebola, P.E.
Assistant Director, Wastewater System Operations

VEA/RMO/pt

Attachment: South District WWTP – 2012 Annual Wastewater Stream Analysis Sampling Results

ec: M. Hambor, FDEP/SED Michael.Hambor@dep.state.fl.us
Alex Lopez, FDEP/SED Alex.Lopez@dep.state.fl.us



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