



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

December 5, 2011

Certified: 7001 0360 0001 6810 2988  
Return Receipt Requested  
CCN: 55940

miamidade.gov

Mr. Michael Hambor [Michael.Hambor@dep.state.fl.us](mailto:Michael.Hambor@dep.state.fl.us)  
Compliance and Enforcement  
Florida Department of Environmental Protection  
400 N Congress Avenue, Suite 200  
West Palm Beach, FL 33401

RE: 2011- Reclaimed Water Analysis Report, South District Wastewater Treatment Plant,  
FDEP Permit FLA042137. FDEP Form 62-620.910(15).

MIAMI-DADE  
Dear Mr. Hambor:

In accordance with specific condition C.11 of the referenced permit; the Annual reclaimed water or effluent analysis report shall be completed and submitted using the form 62-620.910(15) by January 8 of each year. Attached please find a completed form with the results of the reclaimed water sample analysis taken on February 18, 2011.

Please call me at (786) 552-8116 or Mr. Richard M. O'Rourke, P.E. at (786) 552-8123 if you have any questions.

Sincerely,

Vicente E. Arrebolá, P.E.  
Assistant Director - Wastewater

MIAMI-DADE  
VEA/RMO/pt

Attachment: FDEP Form 62-620.910(15), 2010 Reclaimed Water Analysis Report, South District WWTP, FDEP Permit FLA042137.

ec: Joseph R. May, DEP/SED [Joseph.May@dep.state.fl.us](mailto:Joseph.May@dep.state.fl.us)  
Fred Rapach, DEP/SED [fred.rapach@dep.state.fl.us](mailto:fred.rapach@dep.state.fl.us)

MIAMI-DADE  
L1116/FDEP-SD-RWEAR





# RECLAIMED WATER OR EFFLUENT ANALYSIS REPORT

## Part I - Instructions

- (1) All applicable items must be completed in full. Note that if parts of this application do not apply, those parts of the form need not be executed.
- (2) All information is to be typed or printed in ink.
- (3) This form shall be submitted to the appropriate District Office in accordance with the schedule in the permit.
- (4) Analyses shall be performed using appropriate methods and shall be capable of achieving minimum detection limits less than or equal to the maximum contaminant levels shown.
- (5) The following instructions apply to Parts III through VIII of this form.
- (6) Column (a) - List the parameters that are to be analyzed.
- (7) Column (b) List the STORET Code for these parameters.
- (8) Column (c) - Record the results of the analysis. If the result was below the minimum detection limit, indicate by showing a less than sign preceding the detection limit for the analytical method used (i.e. <0.01).
- (9) Column (d) - List the primary or secondary drinking water standard from Chapter 62-550, F.A.C.
- (10) Column (e) - Indicate the analytical method used. Record the number from Figure 1 in Chapter 62-601, F.A.C., or from other sources.
- (11) Column (f) - Enter the date on which the analysis was run (MM/DD/YR).
- (12) Column (g) - If the result shown in Column (c) is greater than the standard shown in Column (d) - enter an asterisk (\*) in Column (g).

## Part II - General Information

(1) Facility Name: MDWASD South District WWTP

Address: 8950 SW 232 St.

City: Miami State: Fl Zip: 33190-0000

Telephone Number (including area code): (786) 268-5603

(2) Owner or Authorized Representative

Name: Mr. John W. Renfrow, P.E.

Title: Director

Address: PO Box 330316

City: Miami State: Fl Zip: 33233-0000

Telephone including area code: (786) 552-8086

(3) Method of Discharge: Underground Well System

(4) Report Period 01/01/11 To 12/31/11  
(Beginning Date) (End Date)

(5) Name of Laboratory conducting the analysis: Genapure Analytical Services, Inc.

Address: 3231 NW 7<sup>th</sup> Ave.

City: Boca Raton State: Fl Zip: 33431-0000

Telephone including area code: (561) 447-7373

(6) The facility DEP identification number (WAFR or GMS ID #): 5013M04555

(7) DEP test site identification number (for the sampling location) EFF-4

(8) Description of the monitoring point: Reuse Effluent

(9) Date on which the sample was taken (MM/DD/YR) 02/18/11

Time of day at which the sample was taken 08:45  AM  PM

(10) Date of extraction for the organic chemical analysis performed in Part VI 02/24/11 (MM/DD/YR)

### Part III - Inorganic Analysis

(a) Parameter Name	(b) STORET Code	(c) Analysis Result (mg/L)	(d) Standard (mg/L)	(e) Analytical Method	(f) Analysis Date	(g) Above Standard
Arsenic	900208	0.00107	0.05	200.8	02/25/11	
Barium	900209	0.0109	1.0	200.8	03/01/11	
Cadmium	900210	U	0.010	200.8	02/25/11	
Chromium	900211	0.000920	0.05	200.8	02/25/11	
Fluoride	000951	0.146	4.0	300.0	02/19/11	
Lead	900212	U	0.05	200.8	02/25/11	
Mercury	900213	U	0.002	245.1	02/24/11	
Nitrate (as N)	071850	0.0554	10	300.0	02/19/11	
Selenium	900214	U	0.01	200.8	02/25/11	
Silver	900215	U	0.05	200.8	02/25/11	
Sodium	000929	57.0	160	200.7	03/01/11	

### Part IV - Volatile Organic Analysis

(a) Parameter Name	(b) STORET Code	(c) Analysis Result (µg/L)	(d) Standard (µg/L)	(e) Analytical Method	(f) Analysis Date	(g) Above Standard
Ethylene dibromide	900222		0.02			
Para-dichlorobenzene	--	0.970	75	524.2	02/23/11	
Vinyl Chloride	039175	U	1	524.2	02/23/11	
1,1-dichloroethane	034496	U	7	E624	02/25/11	
1,2-dichloroethane	034531	U	3	524.2	02/23/11	
1,1,1-trichloroethane	034506	U	200	524.2	02/23/11	
Carbon tetrachloride	032102	U	3	524.2	02/23/11	
Trichloroethene	--	U	3	524.2	02/23/11	
Tetrachloroethene	--	0.490	3	524.2	02/23/11	
Benzene	034030	U	1	524.2	02/23/11	

### Part V - Trihalomethane Analysis

(a) Parameter Name	(b) STORET Code	(c) Analysis Result (µg/L)	(d) Standard (µg/L)	(e) Analytical Method	(f) Analysis Date	(g) Above Standard
Total THM	082080		100			

### Part VI - Organic Chemical Analysis

(a) Parameter Name	(b) STORET Code	(c) Analysis Result (µg/L)	(d) Standard (µg/L)	(e) Analytical Method	(f) Analysis Date	(g) Above Standard
Endrin	039390	U	0.02	608	02/24/11	
Lindane	039782		4			
Methoxychlor	039480	U	100	608	02/24/11	
Toxaphene	039400	U	5	608	02/24/11	
2,4-D	039730	U	100	515.1	03/10/11	
2,4,5-TP (Silvex)	039760	U	10	515.1	03/10/11	

### Part VII - Radiological Analysis

(a) Parameter Name	(b) STORET Code	(c) Analysis Result (pCi/L)	(d) Standard (pCi/L)	(e) Analytical Method	(f) Analysis Date	(g) Above Standard
Gross alpha excl. radon and uranium	001519	U	15	SW-8469310	03/02/11	
Radium-226 and Radium-228 combined	011503	U U	5	SW-8469315 SW-8469320	February 23 and 28, 2011	

### Part VIII - Secondary Chemical Analysis

(a) Parameter Name	(b) STORET Code	(c) Analysis Result (mg/L)	(d) Standard (mg/L)	(e) Analytical Method	(f) Analysis Date	(g) Above Standard
Chloride	000940	83.9	250	300.0	02/19/11	
Copper	900218	0.00235	1	200.8	02/25/11	
iron	900219	0.188	0.3	200.7	03/01/11	
Manganese	900220	0.0135	0.05	200.8	03/01/11	
Sulfate	000945	24.7	250	300.0	02/19/11	
Zinc	900221	0.0108	5	200.7	03/03/11	
pH (units)	000403	7.43	6.5 - 8.5	SM4500-H	02/22/11	
TDS	070300	371	500	SM2540 C	02/22/11	
Foaming Agents	900217	0.177	0.5	SM5540 C	02/18/11	

## Part IX - Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

12/1/11

Phone:

(786) 268-5603



Signature of Lead Operator

Steve Kronheim

004431

Name (please type) and Certification Number

8950 S.W. 232 St.

Address

Miami, Fl 33190

# Analytical Report 407304

for

## Miami Dade Water & Sewer-South District

Project Manager: CLIVE POWELL

ANNUAL PRIORITY POLLUTANTS

27-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 (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: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)  
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



27-MAR-11

Project Manager: **CLIVE POWELL**  
**Miami Dade Water & Sewer-South District**  
8950 SW 232 Street  
Miami, FL 33190

Reference: XENCO Report No: **407304**  
**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 407304. 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. 407304 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 407304**



**Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS**

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
SD-Combined Effluent	W	Feb-18-11 00:00		407304-001
SD-Combined Effluent	W	Feb-18-11 08:45		407304-002

## CASE NARRATIVE SUMMARY



*Client Name:* **Miami Dade Water & Sewer-South D**  
*Project Name:* **ANNUAL PRIORITY POLLUTANTS**

*Project ID:*  
*Work Order Number:* 407304

*Report Date:* 27-MAR-11  
*Date Received:* 18-FEB-11

Batch 845263 625: Spike recoveries in the LCS and/or LCSD are outside method control limits for Heachlorocyclopentadiene, Hexachloroethane, and 2-Nitroaniline. NELAC criteria allows up to 4 spiked compounds to recover outside method criteria in the LCS/LCSD. Compounds flagged with "J". Any positive hits on these compounds may be slightly biased.

Batch 845273 608: % RPD is outside method control limits between the LCS and LCSD for Aldrin and Heptachlor. Individual spike recoveries for these compounds in the LCS are within method control criteria. Compounds flagged with "J".

Batch 844876 E365.1 O-PHOS: Spike recovery in the parent spiked sample-407304-001 is outside method control limits. Recovery in the LCS passes. Result in the parent sample is flagged with "J2".

Batch 845291 E351.2 TKN: Spike recovery in the parent spiked sample-407304-001 is outside method control limits. Recovery in the LCS passes. Result in the parent sample is flagged with "J2".

Batch 845174 E350.1 NH3: Spike recovery in the parent spiked sample-407304-001 is outside method control limits. Recovery in the LCS passes. Result in the parent sample is flagged with "J2".

Batch 845424 SM5210B: Spike recovery in the LCS is outside method control limits. Insufficient hold time to reset batch for analysis. Result flagged with "J" and might be slightly biased low.

*Mike Kimmel*  
Office Manager



**Certificate of Analytical Results 407304**



**Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS**

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> Alpha-Emitting Radium Isotopes by SW-846 9315		
<b>Analyst:</b> SUB	<b>Tech:</b> SUB	
<b>Seq Number:</b> 849187	<b>SUB:</b> E87688	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Radium-226	13982-63-3	U	1.0	0.90	pCi/L	02/23/11 10:00	U	1

<b>Analytical Method:</b> BOD by SM5210B			<b>Prep Method:</b> SM5210P		
<b>Analyst:</b> RCA	<b>Date Prep:</b> Feb-21-11 19:17		<b>Tech:</b> MJV		
<b>Seq Number:</b> 845424					

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Biochemical Oxygen Demand, 5 day		15.0	2.00		mg/L	02/26/11 18:19	J	1

<b>Analytical Method:</b> Chlorinated Acids in Water by EPA 515.1			<b>Prep Method:</b> E515.1P		
<b>Analyst:</b> SBR	<b>Date Prep:</b> Mar-02-11 13:49		<b>Tech:</b> SBR		
<b>Seq Number:</b> 848000					

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
2,4-D	94-75-7	U	0.0500	0.0359	ug/L	03/10/11 23:19	U	1
Dalapon	75-99-0	U	0.0500	0.0237	ug/L	03/10/11 23:19	U	1
Dinoseb	88-85-7	U	0.0100	0.00317	ug/L	03/10/11 23:19	U	1
Pentachlorophenol	87-86-5	U	0.0100	0.00163	ug/L	03/10/11 23:19	UJ	1
Picloram	1918-02-1	U	0.0100	0.00229	ug/L	03/10/11 23:19	U	1
2,4,5-Tp	93-72-1	U	0.0100	0.00470	ug/L	03/10/11 23:19	U	1

<b>Analytical Method:</b> Color by SM2120B			<b>Tech:</b> RCH		
<b>Analyst:</b> MID					
<b>Seq Number:</b> 844371					

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Color	1605	30	1.0	0.50	CU	02/18/11 19:40		1

Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS

Sample Id: SD-Combined Effluent	Matrix: Water	% Moisture:
Lab Sample Id: 407304-001	Date Collected: Feb-18-11 00:00	
	Date Received: Feb-18-11 18:00	

Analytical Method: E624 Volatile	Analyst: ROL	Date Prep: Feb-24-11 20:35	Prep Method: SW5030B
	Seq Number: 845297		Tech: ROL

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 08:39	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.0509	ug/L	02/25/11 08:39	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.109	ug/L	02/25/11 08:39	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.711	ug/L	02/25/11 08:39	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.139	ug/L	02/25/11 08:39	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.150	ug/L	02/25/11 08:39	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.121	ug/L	02/25/11 08:39	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.108	ug/L	02/25/11 08:39	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.215	ug/L	02/25/11 08:39	U	1
1,4-Dichlorobenzene	106-46-7	0.814	1.00	0.104	ug/L	02/25/11 08:39	I	1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.0613	ug/L	02/25/11 08:39	U	1
Acrolein	107-02-8	U	10.0	2.37	ug/L	02/25/11 08:39	U	1
Acrylonitrile	107-13-1	U	2.00	0.408	ug/L	02/25/11 08:39	U	1
Benzene	71-43-2	U	1.00	0.249	ug/L	02/25/11 08:39	U	1
Bromodichloromethane	75-27-4	0.491	1.00	0.0764	ug/L	02/25/11 08:39	I	1
Bromoform	75-25-2	U	1.00	0.146	ug/L	02/25/11 08:39	U	1
Methyl bromide	74-83-9	U	1.00	0.183	ug/L	02/25/11 08:39	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.228	ug/L	02/25/11 08:39	U	1
Chlorobenzene	108-90-7	U	1.00	0.176	ug/L	02/25/11 08:39	U	1
Chloroethane	75-00-3	U	1.00	0.217	ug/L	02/25/11 08:39	U	1
Chloroform	67-66-3	3.41	1.00	0.122	ug/L	02/25/11 08:39	I	1
Methyl Chloride	74-87-3	U	1.00	0.352	ug/L	02/25/11 08:39	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.152	ug/L	02/25/11 08:39	U	1
Dibromochloromethane	124-48-1	U	1.00	0.0586	ug/L	02/25/11 08:39	U	1
Methylene bromide	74-95-3	U	1.00	0.0820	ug/L	02/25/11 08:39	U	1
Ethylbenzene	100-41-4	U	1.00	0.210	ug/L	02/25/11 08:39	U	1
Methylene Chloride	75-09-2	U	5.00	1.27	ug/L	02/25/11 08:39	U	1
Tetrachloroethylene	127-18-4	U	1.00	0.0977	ug/L	02/25/11 08:39	U	1
Toluene	108-88-3	0.314	1.00	0.201	ug/L	02/25/11 08:39	I	1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.128	ug/L	02/25/11 08:39	U	1
trans-1,3-dichloropropene	10061-02-6	U	1.00	0.0536	ug/L	02/25/11 08:39	U	1
Trichloroethylene	79-01-6	U	1.00	0.357	ug/L	02/25/11 08:39	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.120	ug/L	02/25/11 08:39	U	1
Vinyl Chloride	75-01-4	U	1.00	0.192	ug/L	02/25/11 08:39	U	1



# Certificate of Analytical Results 407304



## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

<b>Sample Id:</b> SD-Combined Effluent		<b>Matrix:</b> Water		<b>% Moisture:</b>				
<b>Lab Sample Id:</b> 407304-001		<b>Date Collected:</b> Feb-18-11 00:00		<b>Date Received:</b> Feb-18-11 18:00				
<b>Analytical Method:</b> EDB, DBCP & 123TCP by EPA 504.1			<b>Prep Method:</b> E504.1P					
<b>Analyst:</b> KKO		<b>Date Prep:</b> Feb-24-11 09:42		<b>Tech:</b> KKO				
<b>Seq Number:</b> 845325								
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>PQL</b>	<b>MDL</b>	<b>Units</b>	<b>Analysis Date</b>	<b>Flag</b>	<b>Dil</b>
1,2-Dibromoethane	106-93-4	U	0.00855	0.00316	ug/L	02/25/11 16:59	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	0.00855	0.00265	ug/L	02/25/11 16:59	U	1
<b>Analytical Method:</b> Endothal by 548.1			<b>Prep Method:</b> E548P					
<b>Analyst:</b> SUB		<b>Date Prep:</b> Feb-24-11 10:00		<b>Tech:</b> SUB				
<b>Seq Number:</b> 847671			<b>SUB:</b> E87836					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>PQL</b>	<b>MDL</b>	<b>Units</b>	<b>Analysis Date</b>	<b>Flag</b>	<b>Dil</b>
Endothal	145-73-3	U	9.00	1.00	ug/L	02/24/11 17:00	U	1
<b>Analytical Method:</b> Gross Alpha-Gross Beta by SW-846 9310			<b>Tech:</b> SUB					
<b>Analyst:</b> SUB		<b>Seq Number:</b> 849185		<b>SUB:</b> E87688				
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>PQL</b>	<b>MDL</b>	<b>Units</b>	<b>Analysis Date</b>	<b>Flag</b>	<b>Dil</b>
Alpha, Gross	12587-46-1	U	3.0	2.5	pCi/L	03/02/11 10:00	U	1
<b>Analytical Method:</b> Haloacetic Acids by SM6251B			<b>Prep Method:</b> E552P					
<b>Analyst:</b> SUB		<b>Date Prep:</b> Mar-02-11 10:00		<b>Tech:</b> SUB				
<b>Seq Number:</b> 847674			<b>SUB:</b> E87836					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>PQL</b>	<b>MDL</b>	<b>Units</b>	<b>Analysis Date</b>	<b>Flag</b>	<b>Dil</b>
Dibromoacetic Acid (DBAA)	631-64-1	0.507	1.00	0.270	ug/L	03/04/11 18:00	I	1
Dichloroacetic Acid	79-43-6	8.82	1.00	0.820	ug/L	03/04/11 18:00		1
Monobromoacetic Acid (MBAA)	79-08-3	0.853	1.00	0.249	ug/L	03/04/11 18:00	I	1
Monochloroacetic Acid (MCAA)	79-11-8	8.70	1.00	0.805	ug/L	03/04/11 18:00		1
Trichloroacetic Acid (TCAA)	76-03-9	6.86	1.00	0.339	ug/L	03/04/11 18:00		1
Total HAA's		25.74	1.00	0.82	ug/L	03/04/11 18:00		1
<b>Analytical Method:</b> MBAS Surfactants by SM5540C			<b>Tech:</b> ARM					
<b>Analyst:</b> ARM		<b>Seq Number:</b> 844294						
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>PQL</b>	<b>MDL</b>	<b>Units</b>	<b>Analysis Date</b>	<b>Flag</b>	<b>Dil</b>
Surfactants		0.177	0.100	0.0430	mg/L	02/18/11 18:00		1

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**Certificate of Analytical Results 407304**



**Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS**

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> Mercury by EPA 245.1	<b>Prep Method:</b> E245.1P
<b>Analyst:</b> SOA	<b>Date Prep:</b> Feb-24-11 08:45
<b>Seq Number:</b> 845111	<b>Tech:</b> SOA

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	U	0.200	0.0593	ug/L	02/24/11 14:06	U	1

<b>Analytical Method:</b> Nitrogen, Ammonia by EPA 350.1	<b>Tech:</b> RGF
<b>Analyst:</b> RGF	
<b>Seq Number:</b> 845174	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Nitrogen, Ammonia (as N)	7664-41-7	21.5	1.00	0.247	mg/L	02/24/11 16:01	J2	5

<b>Analytical Method:</b> Nitrogen, Kjeldahl, Total by EPA 351.2	<b>Prep Method:</b> E351.2P
<b>Analyst:</b> RGF	<b>Date Prep:</b> Feb-25-11 11:46
<b>Seq Number:</b> 845291	<b>Tech:</b> RGF

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Nitrogen, Total Kjeldahl	7727-37-9	23.5	1.50	0.434	mg/L	02/25/11 11:46	J2	5



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## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> Organochlorine Pesticides and PCBs by EPA 608	<b>Prep Method:</b> E608P
<b>Analyst:</b> JGO	<b>Date Prep:</b> Feb-23-11 10:30
<b>Seq Number:</b> 845273	<b>Tech:</b> HEE

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 04:40	U	1
4,4-DDE	72-55-9	U	0.00500	0.000579	ug/L	02/24/11 04:40	U	1
4,4-DDT	50-29-3	U	0.00500	0.000824	ug/L	02/24/11 04:40	U	1
Aldrin	309-00-2	U	0.00500	0.00170	ug/L	02/24/11 04:40	UJ	1
Alpha-BHC	319-84-6	U	0.00500	0.000636	ug/L	02/24/11 04:40	U	1
Alpha-Chlordane	5103-71-9	U	0.00500	0.000528	ug/L	02/24/11 04:40	U	1
Beta-BHC	319-85-7	U	0.00500	0.00130	ug/L	02/24/11 04:40	U	1
Chlordane	57-74-9	U	0.20	0.029	ug/L	02/24/11 04:40	U	1
Delta-BHC	319-86-8	U	0.00500	0.000760	ug/L	02/24/11 04:40	U	1
Dieldrin	60-57-1	U	0.00500	0.000586	ug/L	02/24/11 04:40	U	1
Endosulfan I	959-98-8	U	0.00500	0.000523	ug/L	02/24/11 04:40	U	1
Endosulfan II	33213-65-9	U	0.00500	0.000660	ug/L	02/24/11 04:40	U	1
Endosulfan Sulfate	1031-07-8	U	0.00500	0.000650	ug/L	02/24/11 04:40	U	1
Endrin	72-20-8	U	0.00500	0.000718	ug/L	02/24/11 04:40	U	1
Endrin Aldehyde	7421-93-4	U	0.00500	0.00109	ug/L	02/24/11 04:40	U	1
Endrin Ketone	53494-70-5	U	0.00500	0.000666	ug/L	02/24/11 04:40	U	1
Gamma-BHC (Lindane)	8-89-9	U	0.00500	0.00167	ug/L	02/24/11 04:40	U	1
Gamma-Chlordane	5566-34-7	U	0.00500	0.000559	ug/L	02/24/11 04:40	U	1
Heptachlor	76-44-8	U	0.00500	0.000542	ug/L	02/24/11 04:40	UJ	1
Heptachlor Epoxide	1024-57-3	U	0.00500	0.000615	ug/L	02/24/11 04:40	U	1
Methoxychlor	72-43-5	U	0.00500	0.000869	ug/L	02/24/11 04:40	U	1
Toxaphene	8001-35-2	U	0.20	0.063	ug/L	02/24/11 04:40	U	1
PCB-1016	12674-11-2	U	0.500	0.110	ug/L	02/24/11 04:40	U	1
PCB-1221	11104-28-2	U	0.500	0.108	ug/L	02/24/11 04:40	U	1
PCB-1232	11141-16-5	U	0.500	0.107	ug/L	02/24/11 04:40	U	1
PCB-1242	53469-21-9	U	0.500	0.149	ug/L	02/24/11 04:40	U	1
PCB-1248	12672-29-6	U	0.500	0.101	ug/L	02/24/11 04:40	U	1
PCB-1254	11097-69-1	U	0.500	0.129	ug/L	02/24/11 04:40	U	1
PCB-1260	11096-82-5	U	0.500	0.120	ug/L	02/24/11 04:40	U	1
PCB, Total	1336-36-3	U			ug/L	02/24/11 04:40	U	1

<b>Analytical Method:</b> Ortho-Phosphorus by EPA 365.1			
<b>Analyst:</b> MID		<b>Tech:</b> MID	
<b>Seq Number:</b> 844876			

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Ortho-Phosphate as P	7723-14-0	2.19	0.0400	0.0110	mg/L	02/23/11 12:50	J2,Q	2



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**Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS**

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> Pri / Sec ICP-AES Metals by EPA 200.7	<b>Prep Method:</b> E200.7P
<b>Analyst:</b> IST	<b>Date Prep:</b> Feb-24-11 13:00
<b>Seq Number:</b> 846038	<b>Tech:</b> RWA

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Aluminum	7429-90-5	0.0705	0.200	0.0650	mg/L	03/01/11 04:53	I	1
Iron	7439-89-6	0.188	0.200	0.0320	mg/L	03/01/11 04:53	I	1
Molybdenum	7439-98-7	U	0.0100	0.00240	mg/L	03/01/11 04:53	U	1
Sodium	7440-23-5	57.0	0.500	0.150	mg/L	03/01/11 04:53	V	1
Zinc	7440-66-6	0.0108	0.0300	0.00670	mg/L	03/03/11 15:38	I	1

<b>Analytical Method:</b> Pri/Sec Metals per ICP/MS by EPA 200.8	<b>Prep Method:</b> E200.8P
<b>Analyst:</b> DAF	<b>Date Prep:</b> Feb-24-11 20:00
<b>Seq Number:</b> 845492	<b>Tech:</b> TEM

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	U	0.00400	0.00138	mg/L	02/25/11 14:27	U	1
Arsenic	7440-38-2	0.00107	0.00400	0.000900	mg/L	02/25/11 14:27	VI	1
Barium	7440-39-3	0.0109	0.00400	0.000882	mg/L	03/01/11 21:59	V	1
Beryllium	7440-41-7	0.000310	0.00200	0.0000790	mg/L	02/25/11 14:27	VI	1
Cadmium	7440-43-9	U	0.00200	0.000168	mg/L	02/25/11 14:27	U	1
Chromium	7440-47-3	0.000920	0.00200	0.000302	mg/L	02/25/11 14:27	VI	1
Copper	7440-50-8	0.00235	0.00200	0.000343	mg/L	02/25/11 14:27	V	1
Lead	7439-92-1	U	0.00400	0.00113	mg/L	02/25/11 14:27	U	1
Manganese	7439-96-5	0.0135	0.00200	0.000312	mg/L	03/01/11 21:59	V	1
Nickel	7440-02-0	0.000980	0.00200	0.000194	mg/L	02/25/11 14:27	VI	1
Selenium	7782-49-2	U	0.00400	0.000500	mg/L	02/25/11 14:27	U	1
Silver	7440-22-4	U	0.00200	0.0000620	mg/L	02/25/11 14:27	U	1
Thallium	7440-28-0	U	0.00200	0.000131	mg/L	02/25/11 14:27	U	1

<b>Analytical Method:</b> Radium-228 by SW-846 9320	<b>Tech:</b> SUB
<b>Analyst:</b> SUB	<b>SUB:</b> E87688
<b>Seq Number:</b> 849188	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Radium-228	15262-20-1	U	1.0	0.95	pCi/L	02/28/11 10:00	U	1

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**Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS**

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> SVOCs by EPA 525.2	<b>Analyst:</b> SUB	<b>Date Prep:</b> Mar-02-11 10:00	<b>Prep Method:</b> E525P
	<b>Seq Number:</b> 847664		<b>Tech:</b> SUB
			<b>SUB:</b> E87836

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Atrazine *	1912-24-9	U	0.100	0.0180	ug/L	03/04/11 11:00	U	1
Benzo(a)pyrene	50-32-8	U	0.0200	0.00647	ug/L	03/04/11 11:00	U	1
bis(2-Ethylhexyl) Adipate	70147-21-6	U	0.600	0.145	ug/L	03/04/11 11:00	U	1
bis(2-ethylhexyl) phthalate	117-81-7	0.496	0.600	0.243	ug/L	03/04/11 11:00	I	1
Alachlor *	15972-60-8	U	0.200	0.0231	ug/L	03/04/11 11:00	U	1
Simazine *	122-34-9	U	0.0700	0.0138	ug/L	03/04/11 11:00	U	1
Heptachlor *	76-44-8	U	0.0400	0.000970	ug/L	03/04/11 11:00	U	1
Heptachlor Epoxide (iso. b) *	1024-57-3	U	0.0200	0.00640	ug/L	03/04/11 11:00	U	1
Hexachlorobenzene *	118-74-1	U	0.100	0.0217	ug/L	03/04/11 11:00	U	1
Hexachlorocyclopentadiene *	77-47-4	U	0.100	0.0381	ug/L	03/04/11 11:00	U,J	1
Methoxychlor *	72-43-5	U	0.100	0.0184	ug/L	03/04/11 11:00	U,J	1
Gamma-BHC (Lindane) +	8-89-9	U	0.0200	0.00680	ug/L	03/04/11 11:00	U	1



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## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> SVOCs by EPA 625	<b>Analyst:</b> BAT	<b>Prep Method:</b> E625P
	<b>Date Prep:</b> Feb-23-11 12:30	<b>Tech:</b> HEA
	<b>Seq Number:</b> 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 02:54	U	1
Acenaphthylene	208-96-8	U	4.00	0.255	ug/L	02/25/11 02:54	U	1
Anthracene	120-12-7	U	4.00	0.249	ug/L	02/25/11 02:54	U	1
Benzidine	92-87-5	U	10.0	9.74	ug/L	02/25/11 02:54	U	1
Benzo(a)anthracene	56-55-3	U	4.00	0.274	ug/L	02/25/11 02:54	U	1
Benzo(a)pyrene	50-32-8	U	4.00	0.305	ug/L	02/25/11 02:54	U	1
Benzo(b)fluoranthene	205-99-2	U	4.00	0.247	ug/L	02/25/11 02:54	U	1
Benzo(k)fluoranthene	207-08-9	U	4.00	0.385	ug/L	02/25/11 02:54	U	1
Benzo(g,h,i)perylene	191-24-2	U	4.00	0.281	ug/L	02/25/11 02:54	U	1
Benzyl Alcohol	100-51-6	U	4.00	0.220	ug/L	02/25/11 02:54	U	1
Benzyl Butyl Phthalate	85-68-7	U	10.0	0.356	ug/L	02/25/11 02:54	U	1
bis(2-chloroethoxy) methane	111-91-1	U	4.00	0.316	ug/L	02/25/11 02:54	U	1
bis(2-chloroethyl) ether	111-44-4	U	4.00	0.461	ug/L	02/25/11 02:54	U	1
bis(2-chloroisopropyl) ether	108-60-1	U	4.00	0.341	ug/L	02/25/11 02:54	U	1
bis(2-ethylhexyl) phthalate	117-81-7	0.400	4.00	0.201	ug/L	02/25/11 02:54	I	1
4-Bromophenyl-phenylether	101-55-3	U	4.00	0.271	ug/L	02/25/11 02:54	U	1
Carbazole	86-74-8	U	4.00	0.278	ug/L	02/25/11 02:54	U	1
4-chloro-3-methylphenol	59-50-7	U	4.00	0.221	ug/L	02/25/11 02:54	U	1
2-Chlorophenol	95-57-8	U	4.00	0.224	ug/L	02/25/11 02:54	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	4.00	0.446	ug/L	02/25/11 02:54	U	1
Chrysene	218-01-9	U	4.00	0.276	ug/L	02/25/11 02:54	U	1
2,3,7,8-TCDD Dioxin (SCREEN)	124-18-5	U	4.00	0.328	ug/L	02/25/11 02:54	U	1
Dibenz(a,h)anthracene	53-70-3	U	4.00	0.550	ug/L	02/25/11 02:54	U	1
Dibenzofuran	132-64-9	U	10.0	0.0848	ug/L	02/25/11 02:54	U	1
di-n-Butyl Phthalate	84-74-2	U	4.00	0.211	ug/L	02/25/11 02:54	U	1
1,2-Dichlorobenzene	95-50-1	U	4.00	0.342	ug/L	02/25/11 02:54	U	1
1,3-Dichlorobenzene	541-73-1	U	4.00	0.352	ug/L	02/25/11 02:54	U	1
<b>1,4-Dichlorobenzene</b>	106-46-7	0.710	4.00	0.278	ug/L	02/25/11 02:54	I	1
3,3-Dichlorobenzidine	91-94-1	U	4.00	0.309	ug/L	02/25/11 02:54	U	1
2,4-Dichlorophenol	120-83-2	U	4.00	0.432	ug/L	02/25/11 02:54	U	1
Diethyl Phthalate	84-66-2	U	10.0	0.328	ug/L	02/25/11 02:54	U	1
Dimethyl Phthalate	131-11-3	U	1.00	0.308	ug/L	02/25/11 02:54	U	1
2,4-Dimethylphenol	105-67-9	U	4.00	0.396	ug/L	02/25/11 02:54	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	10.0	0.353	ug/L	02/25/11 02:54	U	1
2,4-Dinitrophenol	51-28-5	U	10.0	1.40	ug/L	02/25/11 02:54	U	1
2,4-Dinitrotoluene	121-14-2	U	4.00	0.312	ug/L	02/25/11 02:54	U	1
2,6-Dinitrotoluene	606-20-2	U	4.00	0.310	ug/L	02/25/11 02:54	U	1
di-n-Octyl Phthalate	117-84-0	U	1.00	0.278	ug/L	02/25/11 02:54	U	1
1,2-Diphenylhydrazine	122-66-7	U	4.00	0.234	ug/L	02/25/11 02:54	U	1
Fluoranthene	206-44-0	U	4.00	0.201	ug/L	02/25/11 02:54	U	1

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## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> SVOCs by EPA 625	<b>Prep Method:</b> E625P
<b>Analyst:</b> BAT	<b>Date Prep:</b> Feb-23-11 12:30
<b>Seq Number:</b> 845263	<b>Tech:</b> HEA

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Fluorene	86-73-7	U	4.00	0.265	ug/L	02/25/11 02:54	U	1
Hexachlorobenzene	118-74-1	U	1.00	0.315	ug/L	02/25/11 02:54	U	1
Hexachlorobutadiene	87-68-3	U	4.00	0.448	ug/L	02/25/11 02:54	U	1
Hexachlorocyclopentadiene	77-47-4	U	4.00	0.741	ug/L	02/25/11 02:54	UJ	1
Hexachloroethane	67-72-1	U	2.00	0.362	ug/L	02/25/11 02:54	UJ	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	4.00	0.259	ug/L	02/25/11 02:54	U	1
Isophorone	78-59-1	U	4.00	0.337	ug/L	02/25/11 02:54	U	1
1-Methylnaphthalene	90-12-0	U	1.00	0.103	ug/L	02/25/11 02:54	U	1
2-Methylnaphthalene	91-57-6	U	1.00	0.113	ug/L	02/25/11 02:54	U	1
2-methylphenol	95-48-7	U	4.00	0.230	ug/L	02/25/11 02:54	U	1
3&4-Methylphenol		U	4.00	0.230	ug/L	02/25/11 02:54	U	1
Naphthalene	91-20-3	U	4.00	0.338	ug/L	02/25/11 02:54	U	1
2-Nitroaniline	88-74-4	U	50.0	0.0598	ug/L	02/25/11 02:54	UJ	1
Nitrobenzene	98-95-3	U	4.00	0.306	ug/L	02/25/11 02:54	U	1
2-Nitrophenol	88-75-5	U	4.00	0.242	ug/L	02/25/11 02:54	U	1
4-Nitrophenol	100-02-7	U	10.0	0.786	ug/L	02/25/11 02:54	U	1
n-Octadecane	593-45-3	U	4.00	0.317	ug/L	02/25/11 02:54	U	1
Pentachlorophenol	87-86-5	U	10.0	0.672	ug/L	02/25/11 02:54	U	1
Phenanthrene	85-01-8	U	4.00	0.288	ug/L	02/25/11 02:54	U	1
Phenol	108-95-2	U	1.00	0.405	ug/L	02/25/11 02:54	U	1
Pyrene	129-00-0	U	4.00	0.468	ug/L	02/25/11 02:54	U	1
1,2,4-Trichlorobenzene	120-82-1	U	4.00	0.225	ug/L	02/25/11 02:54	U	1
2,4,5-Trichlorophenol	95-95-4	U	4.00	0.380	ug/L	02/25/11 02:54	U	1
2,4,6-Trichlorophenol	88-06-2	U	1.00	0.274	ug/L	02/25/11 02:54	U	1
N-Nitrosodimethylamine	62-75-9	U	4.00	0.310	ug/L	02/25/11 02:54	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	4.00	0.100	ug/L	02/25/11 02:54	U	1
N-Nitrosodiphenylamine	86-30-6	U	4.00	0.100	ug/L	02/25/11 02:54	U	1

<b>Analytical Method:</b> Synthetic Organics by 549.2	<b>Prep Method:</b> E549P
<b>Analyst:</b> SUB	<b>Date Prep:</b> Feb-24-11 11:00
<b>Seq Number:</b> 847669	<b>Tech:</b> SUB
	SUB: E87836

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Diquat	231-36-7	U	0.40	0.27	ug/L	02/24/11 18:00	U,Y	1

Project: Florida Standard List of Methods

**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> Total Cyanide by EPA 335.4	<b>Analyst:</b> DAH	<b>Tech:</b> DAH
	<b>Seq Number:</b> 844916	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	U	0.00500	0.00240	mg/L	02/23/11 15:42	U	1

<b>Analytical Method:</b> Volatile Organic Compounds by EPA 524.2	<b>Analyst:</b> ROL	<b>Date Prep:</b> Feb-23-11 12:00	<b>Prep Method:</b> E524P
	<b>Seq Number:</b> 845053		<b>Tech:</b> ROL

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	0.500	0.0540	ug/L	02/23/11 20:09	U	1
Bromochloromethane	74-97-5	U	0.500	0.133	ug/L	02/23/11 20:09	U	1
Bromodichloromethane	75-27-4	0.640	0.500	0.174	ug/L	02/23/11 20:09		1
Bromoform	75-25-2	U	0.500	0.116	ug/L	02/23/11 20:09	U	1
Carbon Tetrachloride	56-23-5	U	0.500	0.0994	ug/L	02/23/11 20:09	U	1
Chlorobenzene	108-90-7	U	0.500	0.0745	ug/L	02/23/11 20:09	U	1
Chloroform	67-66-3	5.46	0.500	0.220	ug/L	02/23/11 20:09		1
Dibromochloromethane	124-48-1	0.110	0.500	0.102	ug/L	02/23/11 20:09	I	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0832	ug/L	02/23/11 20:09	U	1
1,4-Dichlorobenzene	106-46-7	0.970	0.500	0.0696	ug/L	02/23/11 20:09		1
1,2-Dichloroethane	107-06-2	U	0.500	0.265	ug/L	02/23/11 20:09	U	1
cis-1,2-Dichloroethylene	156-59-2	U	0.500	0.461	ug/L	02/23/11 20:09	U	1
trans-1,2-dichloroethylene	156-60-5	U	0.500	0.0812	ug/L	02/23/11 20:09	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.116	ug/L	02/23/11 20:09	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.0859	ug/L	02/23/11 20:09	U	1
Ethylbenzene	100-41-4	U	0.500	0.0723	ug/L	02/23/11 20:09	U	1
Methylene Chloride	75-09-2	U	0.500	0.386	ug/L	02/23/11 20:09	U	1
Styrene	100-42-5	U	0.500	0.0806	ug/L	02/23/11 20:09	U	1
Tetrachloroethylene	127-18-4	0.490	0.500	0.0868	ug/L	02/23/11 20:09	I	1
Toluene	108-88-3	0.250	0.500	0.0736	ug/L	02/23/11 20:09	I	1
1,2,4-Trichlorobenzene	120-82-1	U	0.500	0.0820	ug/L	02/23/11 20:09	U	1
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0992	ug/L	02/23/11 20:09	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.0806	ug/L	02/23/11 20:09	U	1
Trichloroethylene	79-01-6	U	0.500	0.0540	ug/L	02/23/11 20:09	U	1
Vinyl Chloride	75-01-4	U	0.500	0.128	ug/L	02/23/11 20:09	U	1
Total Xylenes	1330-20-7	U	1.500	0.107	ug/L	02/23/11 20:09	U	1

<b>Analytical Method:</b> pH by SM4500-H	<b>Analyst:</b> KLH	<b>Tech:</b> KLH
	<b>Seq Number:</b> 844729	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
pH	12408-02-5	7.43	0.100	0.100	SU	02/22/11 16:10	Q	1



# Certificate of Analytical Results 407304



## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> Turbidity by EPA 180.1			<b>Analyst:</b> MID			<b>Tech:</b> MID		
			<b>Seq Number:</b> 844845					

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Turbidity		3.30	1.00	0.100	NTU	02/23/11 11:25	Q	1

<b>Analytical Method:</b> Inorganic Anions by EPA 300			<b>Prep Method:</b> E300P					
<b>Analyst:</b> DAH			<b>Date Prep:</b> Feb-19-11 03:21			<b>Tech:</b> DAH		
<b>Seq Number:</b> 844705								

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Fluoride	16984-48-8	0.146	0.200	0.0300	mg/L	02/19/11 03:21	1	1
Chloride	16887-00-6	83.9	0.500	0.0664	mg/L	02/19/11 03:21		1
Nitrite as N	7727-37-9	0.574	0.0500	0.00530	mg/L	02/19/11 03:21		1
Sulfate	14808-79-8	24.7	0.500	0.0755	mg/L	02/19/11 03:21		1
Nitrate as N	84145-82-4	0.0554	0.0500	0.00740	mg/L	02/19/11 03:21		1

<b>Analytical Method:</b> TDS by SM2540C			<b>Analyst:</b> LUM			<b>Tech:</b> LUM		
			<b>Seq Number:</b> 844813					

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Total dissolved solids	TDS	371	5.00	5.00	mg/L	02/22/11 10:00		1

<b>Analytical Method:</b> Glyphosate by EPA 547			<b>Prep Method:</b> SW3510C					
<b>Analyst:</b> SUB			<b>Date Prep:</b> Feb-23-11 09:00			<b>Tech:</b> SUB		
<b>Seq Number:</b> 847673						SUB: E87836		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Glyphosate	1071-83-6	U	6.00	1.07	ug/L	02/23/11 17:00	U	1

<b>Analytical Method:</b> ODOR by SM2150B			<b>Analyst:</b> MID			<b>Tech:</b> MID		
			<b>Seq Number:</b> 844715					

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Odor		U	1.0	1.0	T.O.N	02/22/11 15:00	UQ	1



**Certificate of Analytical Results 407304**



**Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS**

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-001	<b>Date Collected:</b> Feb-18-11 00:00	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> Carbamates by EPA 531.1	<b>Analyst:</b> SUB	<b>Tech:</b> SUB
	<b>Seq Number:</b> 847667	<b>SUB:</b> E87836

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Aldicarb (Sulfide, Sulfoxide, And Sulfone)	116-06-3	U	0.500	0.327	ug/L	02/24/11 10:00	U	1
Aldicarb Sulfone	1646-88-4	U	0.500	0.285	ug/L	02/24/11 10:00	U	1
Aldicarb Sulfoxide	1646-87-3	U	0.500	0.368	ug/L	02/24/11 10:00	U	1
Carbaryl	63-25-2	U	0.700	0.365	ug/L	02/24/11 10:00	U	1
Carbofuran	1563-66-2	U	0.900	0.352	ug/L	02/24/11 10:00	U	1
3-Hydroxycarbofuran	16655-82-6	U	0.800	0.352	ug/L	02/24/11 10:00	U	1
Methomyl	16752-77-5	U	0.500	0.282	ug/L	02/24/11 10:00	U	1
Oxamyl	23135-22-0	0.911	2.00	0.234	ug/L	02/24/11 10:00	I	1

<b>Analytical Method:</b> Total Organic Nitrogen	<b>Analyst:</b> AMB	<b>Tech:</b> AMB
	<b>Seq Number:</b> 845531	

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Nitrogen (calculated)		2.00	1.00		mg/L	02/28/11 15:31		1



# Certificate of Analytical Results 407304



## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-002	<b>Date Collected:</b> Feb-18-11 08:45	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> E624 Volatile	<b>Analyst:</b> ROL	<b>Prep Method:</b> SW5030B
	<b>Date Prep:</b> Feb-24-11 20:35	<b>Tech:</b> ROL
	<b>Seq Number:</b> 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 09:03	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.0509	ug/L	02/25/11 09:03	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.109	ug/L	02/25/11 09:03	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.711	ug/L	02/25/11 09:03	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.139	ug/L	02/25/11 09:03	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.150	ug/L	02/25/11 09:03	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.121	ug/L	02/25/11 09:03	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.108	ug/L	02/25/11 09:03	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.215	ug/L	02/25/11 09:03	U	1
<b>1,4-Dichlorobenzene</b>	106-46-7	<b>1.48</b>	1.00	0.104	ug/L	02/25/11 09:03		1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.0613	ug/L	02/25/11 09:03	U	1
Acrolein	107-02-8	U	10.0	2.37	ug/L	02/25/11 09:03	U	1
Acrylonitrile	107-13-1	U	2.00	0.408	ug/L	02/25/11 09:03	U	1
Benzene	71-43-2	U	1.00	0.249	ug/L	02/25/11 09:03	U	1
Bromodichloromethane	75-27-4	U	1.00	0.0764	ug/L	02/25/11 09:03	U	1
Bromoform	75-25-2	U	1.00	0.146	ug/L	02/25/11 09:03	U	1
Methyl bromide	74-83-9	U	1.00	0.183	ug/L	02/25/11 09:03	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.228	ug/L	02/25/11 09:03	U	1
Chlorobenzene	108-90-7	U	1.00	0.176	ug/L	02/25/11 09:03	U	1
Chloroethane	75-00-3	U	1.00	0.217	ug/L	02/25/11 09:03	U	1
<b>Chloroform</b>	67-66-3	<b>3.66</b>	1.00	0.122	ug/L	02/25/11 09:03		1
Methyl Chloride	74-87-3	U	1.00	0.352	ug/L	02/25/11 09:03	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.152	ug/L	02/25/11 09:03	U	1
Dibromochloromethane	124-48-1	U	1.00	0.0586	ug/L	02/25/11 09:03	U	1
Methylene bromide	74-95-3	U	1.00	0.0820	ug/L	02/25/11 09:03	U	1
Ethylbenzene	100-41-4	U	1.00	0.210	ug/L	02/25/11 09:03	U	1
Methylene Chloride	75-09-2	U	5.00	1.27	ug/L	02/25/11 09:03	U	1
Tetrachloroethylene	127-18-4	U	1.00	0.0977	ug/L	02/25/11 09:03	U	1
<b>Toluene</b>	108-88-3	<b>0.534</b>	1.00	0.201	ug/L	02/25/11 09:03	I	1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.128	ug/L	02/25/11 09:03	U	1
trans-1,3-dichloropropene	10061-02-6	U	1.00	0.0536	ug/L	02/25/11 09:03	U	1
Trichloroethylene	79-01-6	U	1.00	0.357	ug/L	02/25/11 09:03	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.120	ug/L	02/25/11 09:03	U	1
Vinyl Chloride	75-01-4	U	1.00	0.192	ug/L	02/25/11 09:03	U	1

Project: Florida Standard List of Methods



**Certificate of Analytical Results 407304**



**Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS**

<b>Sample Id:</b> SD-Combined Effluent	<b>Matrix:</b> Water	<b>% Moisture:</b>
<b>Lab Sample Id:</b> 407304-002	<b>Date Collected:</b> Feb-18-11 08:45	
	<b>Date Received:</b> Feb-18-11 18:00	

<b>Analytical Method:</b> Oil and Grease by EPA 1664A	<b>Prep Method:</b> E1664A_PREP
<b>Analyst:</b> TJH	<b>Date Prep:</b> Feb-22-11 13:58
<b>Seq Number:</b> 844928	<b>Tech:</b> LER

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Oil & Grease, HEM		2.02	4.00	1.43	mg/L	02/23/11 16:00	I	1

<b>Analytical Method:</b> Total Phosphorus by EPA 365.1	<b>Prep Method:</b> E365.1_P
<b>Analyst:</b> MID	<b>Date Prep:</b> Feb-28-11 11:15
<b>Seq Number:</b> 845669	<b>Tech:</b> MID

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Total Phosphorus (as P)	7723-14-0	2.02	0.0300	0.0110	mg/L	03/01/11 11:17		2





# 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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(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 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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(305) 823-8500	(305) 823-8555



# Form 2 - Surrogate Recoveries

**Project Name: ANNUAL PRIORITY POLLUTANTS**

Work Orders : 407304,

Project ID:

Lab Batch #: 848000

Sample: 596918-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 03/10/11 21:46	SURROGATE RECOVERY STUDY			
Chlorinated Acids in Water by EPA 515.1  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4-Dichlorophenylacetic Acid	0.421	0.500	84	70-130	

Lab Batch #: 848000

Sample: 407304-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 03/10/11 23:19	SURROGATE RECOVERY STUDY			
Chlorinated Acids in Water by EPA 515.1  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4-Dichlorophenylacetic Acid	3.60	5.00	72	70-130	

Lab Batch #: 848000

Sample: 596918-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 03/16/11 12:19	SURROGATE RECOVERY STUDY			
Chlorinated Acids in Water by EPA 515.1  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4-Dichlorophenylacetic Acid	0.598	0.500	120	70-130	

Lab Batch #: 848000

Sample: 596918-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 03/16/11 12:49	SURROGATE RECOVERY STUDY			
Chlorinated Acids in Water by EPA 515.1  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4-Dichlorophenylacetic Acid	0.617	0.500	123	70-130	

Lab Batch #: 845325

Sample: 596407-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L	Date Analyzed: 02/25/11 16:09	SURROGATE RECOVERY STUDY			
EDB, DBCP & 123TCP by EPA 504.1  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.25	4.00	81	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 : 407304,

Project ID:

Lab Batch #: 845325

Sample: 596407-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/25/11 16:34

### SURROGATE RECOVERY STUDY

EDB, DBCP & 123TCP by EPA 504.1 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.55	4.00	89	70-130	

Lab Batch #: 845325

Sample: 407304-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/25/11 16:59

### SURROGATE RECOVERY STUDY

EDB, DBCP & 123TCP by EPA 504.1 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.05	4.00	101	70-130	

Lab Batch #: 845325

Sample: 596407-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/25/11 17:26

### SURROGATE RECOVERY STUDY

EDB, DBCP & 123TCP by EPA 504.1 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.21	4.00	80	70-130	

Lab Batch #: 845325

Sample: 407304-001 S / MS

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/25/11 19:05

### SURROGATE RECOVERY STUDY

EDB, DBCP & 123TCP by EPA 504.1 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.42	4.00	111	70-130	

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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Decachlorobiphenyl	0.0710	0.100	71	25-165	
Tetrachloro-m-xylene	0.0590	0.100	59	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 : 407304,

Project ID:

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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Decachlorobiphenyl	0.066	0.100	66	25-165	
Tetrachloro-m-xylene	0.053	0.100	53	32-137	

Lab Batch #: 845273

Sample: 407304-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

Date Analyzed: 02/24/11 04:40

**SURROGATE RECOVERY STUDY**

Organochlorine Pesticides and PCBs by EPA 608 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Decachlorobiphenyl	0.0356	0.100	36	25-165	
Tetrachloro-m-xylene	0.0646	0.100	65	32-137	

Lab Batch #: 847664

Sample: 407304-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/04/11 11:00

**SURROGATE RECOVERY STUDY**

SVOCs by EPA 525.2 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Chlordane	U	0.0500	0	70-150	J
2,4,6-Tribromophenol	U	1.00	0	10-123	J
2-Fluorobiphenyl	U	1.00	0	43-116	J
Molinate	U	0.0500	0	75-125	J
Terphenyl-D14	U	1.00	0	33-141	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 :** 407304,  
Lab Batch #: 847664

**Sample:** 597966-1-BKS / BKS

**Project ID:**  
**Batch:** 1 **Matrix:** Water

Units: mg/L	Date Analyzed: 03/04/11 11:00	SURROGATE RECOVERY STUDY			
SVOCs by EPA 525.2	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Chlordane	<13.9	0.0500	0	70-150	J
2,4,6-Tribromophenol	<	1.00	0	10-123	J
2-Fluorobiphenyl	<	1.00	0	43-116	J
Molinate	<0.798	0.0500	0	75-125	J
Terphenyl-D14	<	1.00	0	33-141	J

**Lab Batch #:** 847664

**Sample:** 597966-1-BLK / BLK

**Batch:** 1 **Matrix:** Water

Units: mg/L	Date Analyzed: 03/04/11 11:00	SURROGATE RECOVERY STUDY			
SVOCs by EPA 525.2	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
Chlordane	U	0.0500	0	70-150	J
2,4,6-Tribromophenol	U	1.00	0	10-123	J
2-Fluorobiphenyl	U	1.00	0	43-116	J
Molinate	U	0.0500	0	75-125	J
Terphenyl-D14	U	1.00	0	33-141	J

**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	

\* 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 :** 407304,

**Project ID:**

**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	

**Lab Batch #:** 845263

**Sample:** 407304-001 / SMP

**Batch:** 1 **Matrix:** Water

**Units:** ug/L

**Date Analyzed:** 02/25/11 02:54

**SURROGATE RECOVERY STUDY**

SVOCs by EPA 625  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	37.7	50.0	75	40-112	
2-Fluorophenol	48.3	100	48	24-64	
Nitrobenzene-d5	43.5	50.0	87	39-117	
Terphenyl-D14	45.4	50.0	91	31-146	
2,4,6-Tribromophenol	93.9	100	94	52-121	
Phenol-d6	31.1	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 :** 407304,

**Project ID:**

**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:** 407304-001 / SMP

**Batch:** 1 **Matrix:** Water

**Units:** ug/L

**Date Analyzed:** 02/25/11 08:39

**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	

**Lab Batch #:** 845297

**Sample:** 407304-002 / SMP

**Batch:** 1 **Matrix:** Water

**Units:** ug/L

**Date Analyzed:** 02/25/11 09:03

**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	30	30	100	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.

**Form 2 - Surrogate Recoveries**

**Project Name: ANNUAL PRIORITY POLLUTANTS**

**Work Orders : 407304,**

**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**

<b>E624 Volatile</b>	<b>Amount Found [A]</b>	<b>True Amount [B]</b>	<b>Recovery %R [D]</b>	<b>Control Limits %R</b>	<b>Flags</b>
<b>Analytes</b>					
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**

<b>E624 Volatile</b>	<b>Amount Found [A]</b>	<b>True Amount [B]</b>	<b>Recovery %R [D]</b>	<b>Control Limits %R</b>	<b>Flags</b>
<b>Analytes</b>					
4-Bromofluorobenzene	28	30	92	80-121	
Dibromofluoromethane	29	30	98	87-118	
Toluene-D8	29	30	97	87-111	

**Lab Batch #: 845053**

**Sample: 596406-1-BKS / BKS**

**Batch: 1 Matrix: Water**

**Units: ug/L**

**Date Analyzed: 02/23/11 15:52**

**SURROGATE RECOVERY STUDY**

<b>Volatile Organic Compounds by EPA 524.2</b>	<b>Amount Found [A]</b>	<b>True Amount [B]</b>	<b>Recovery %R [D]</b>	<b>Control Limits %R</b>	<b>Flags</b>
<b>Analytes</b>					
4-Bromofluorobenzene	24.7	25.0	99	70-130	
1,2-Dichlorobenzene-D4	24.3	25.0	97	70-130	

**Lab Batch #: 845053**

**Sample: 596406-1-BLK / BLK**

**Batch: 1 Matrix: Water**

**Units: ug/L**

**Date Analyzed: 02/23/11 17:26**

**SURROGATE RECOVERY STUDY**

<b>Volatile Organic Compounds by EPA 524.2</b>	<b>Amount Found [A]</b>	<b>True Amount [B]</b>	<b>Recovery %R [D]</b>	<b>Control Limits %R</b>	<b>Flags</b>
<b>Analytes</b>					
4-Bromofluorobenzene	21.4	25.0	86	70-130	
1,2-Dichlorobenzene-D4	22.6	25.0	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 :** 407304,

**Project ID:**

**Lab Batch #:** 845053

**Sample:** 407304-001 / SMP

**Batch:** 1 **Matrix:** Water

**Units:** ug/L

**Date Analyzed:** 02/23/11 20:09

**SURROGATE RECOVERY STUDY**

Volatile Organic Compounds by EPA 524.2  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	21.8	25.0	87	70-130	
1,2-Dichlorobenzene-D4	22.4	25.0	90	70-130	

**Lab Batch #:** 845053

**Sample:** 407523-001 D / MD

**Batch:** 1 **Matrix:** Water

**Units:** ug/L

**Date Analyzed:** 02/23/11 20:56

**SURROGATE RECOVERY STUDY**

Volatile Organic Compounds by EPA 524.2  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	21.1	25.0	84	70-130	
1,2-Dichlorobenzene-D4	21.6	25.0	86	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.



# Blank Summary

407304



## 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
Benztidine	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
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	0.328	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
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	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

Project: Florida Standard List of Methods

Version: 1.074

**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
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		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
n-Octadecane	593-45-3	U	4.00	0.317	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



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## 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: HEE  
 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

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**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



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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: 596158-1-BLK	Matrix: WATER
Lab Sample Id: 596158-1-BLK	

<b>Analytical Method:</b> BOD by SM5210B	<b>Prep Method:</b> SM5210P		
Date Analyzed: Feb-26-11 18:19	Analyst: RCA	Date Prep: Feb-21-11 19:17	Tech: MJV
Seq Number: 845424			

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





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## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: 596223-1-BLK	Matrix: WATER
Lab Sample Id: 596223-1-BLK	

Analytical Method: Inorganic Anions by EPA 300	Prep Method: E300P
Date Analyzed: Feb-18-11 21:39	Analyst: DAH
Seq Number: 844705	Date Prep: Feb-18-11 21:39
	Tech: DAH

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Fluoride	16984-48-8	U	0.200	0.0300	mg/L	U	1
Chloride	16887-00-6	U	0.500	0.0664	mg/L	U	1
Nitrite as N	7727-37-9	U	0.0500	0.00530	mg/L	U	1
Sulfate	14808-79-8	U	0.500	0.0755	mg/L	U	1
Nitrate as N	84145-82-4	U	0.0500	0.00740	mg/L	U	1

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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Sample Id: 596294-1-BLK** **Matrix: WATER**  
**Lab Sample Id: 596294-1-BLK**

**Analytical Method: Pri / Sec ICP-AES Metals by EPA 200.7** **Prep Method: E200.7P**  
**Date Analyzed: Mar-01-11 02:28** **Analyst: IST** **Date Prep: Feb-24-11 13:00** **Tech: RWA**  
**Seq Number: 846038**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Aluminum	7429-90-5	U	0.200	0.0650	mg/L	U	1
Iron	7439-89-6	U	0.200	0.0320	mg/L	U	1
Molybdenum	7439-98-7	U	0.0100	0.00240	mg/L	U	1
Sodium	7440-23-5	U	500000	150000	mg/L	U	1
Zinc	7440-66-6	U	30000	6700	mg/L	U	1



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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: <b>596342-1-BLK</b>	Matrix: <b>WATER</b>
Lab Sample Id: <b>596342-1-BLK</b>	

<b>Analytical Method: Mercury by EPA 245.1</b>	<b>Prep Method: E245.1P</b>		
Date Analyzed: Feb-24-11 13:41	Analyst: SOA	Date Prep: Feb-24-11 08:45	Tech: SOA
Seq Number: 845111			

<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>PQL</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Mercury	7439-97-6	U	0.200	0.0593	ug/L	U	I

**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: **596406-1-BLK** Matrix: **WATER**  
Lab Sample Id: **596406-1-BLK**

Analytical Method: **Volatile Organic Compounds by EPA 524.2** Prep Method: **E524P**  
Date Analyzed: **Feb-23-11 17:26** Analyst: **ROL** Date Prep: **Feb-23-11 12:00** Tech: **ROL**  
Seq Number: **845053**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	0.500	0.0540	ug/L	U	1
Bromochloromethane	74-97-5	U	0.500	0.133	ug/L	U	1
Bromodichloromethane	75-27-4	U	0.500	0.174	ug/L	U	1
Bromoform	75-25-2	U	0.500	0.116	ug/L	U	1
Carbon Tetrachloride	56-23-5	U	0.500	0.0994	ug/L	U	1
Chlorobenzene	108-90-7	U	0.500	0.0745	ug/L	U	1
Chloroform	67-66-3	U	0.500	0.220	ug/L	U	1
Dibromochloromethane	124-48-1	U	0.500	0.102	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0832	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0696	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.265	ug/L	U	1
cis-1,2-Dichloroethylene	156-59-2	U	0.500	0.461	ug/L	U	1
trans-1,2-dichloroethylene	156-60-5	U	0.500	0.0812	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.116	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.0859	ug/L	U	1
Ethylbenzene	100-41-4	U	0.500	0.0723	ug/L	U	1
Methylene Chloride	75-09-2	U	0.500	0.386	ug/L	U	1
Styrene	100-42-5	U	0.500	0.0806	ug/L	U	1
Tetrachloroethylene	127-18-4	U	0.500	0.0868	ug/L	U	1
Toluene	108-88-3	U	0.500	0.0736	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.500	0.0820	ug/L	U	1
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0992	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.0806	ug/L	U	1
Trichloroethylene	79-01-6	U	0.500	0.0540	ug/L	U	1
Vinyl Chloride	75-01-4	U	0.500	0.128	ug/L	U	1
Total Xylenes	1330-20-7	U	1.500	0.107	ug/L	U	1



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## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: 596407-1-BLK	Matrix: WATER
Lab Sample Id: 596407-1-BLK	

Analytical Method: EDB, DBCP & 123TCP by EPA 504.1	Prep Method: E504.1P		
Date Analyzed: Feb-25-11 16:09	Analyst: KKO	Date Prep: Feb-24-11 09:42	Tech: KKO
Seq Number: 845325			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0100	0.00370	ug/L	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	0.0100	0.00310	ug/L	U	1

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Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS

Sample Id: 596471-1-BLK  
Lab Sample Id: 596471-1-BLK

Matrix: WATER

Analytical Method: Pri/Sec Metals per ICP/MS by EPA 200.8

Prep Method: E200.8P

Date Analyzed: Feb-25-11 12:54

Analyst: DAF

Date Prep: Feb-24-11 20:00

Tech: TEM

Seq Number: 845492

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Antimony	7440-36-0	U	4000	1380	mg/L	U	1
Arsenic	7440-38-2	970	4000	900	mg/L	I	1
Barium	7440-39-3	1350	4000	882	mg/L	I	1
Beryllium	7440-41-7	630	2000	79.0	mg/L	I	1
Cadmium	7440-43-9	480	2000	168	mg/L	I	1
Chromium	7440-47-3	1260	2000	302	mg/L	I	1
Copper	7440-50-8	1130	2000	343	mg/L	I	1
Lead	7439-92-1	U	4000	1130	mg/L	U	1
Manganese	7439-96-5	1010	2000	312	mg/L	I	1
Nickel	7440-02-0	690	2000	194	mg/L	I	1
Selenium	7782-49-2	670	4000	500	mg/L	I	1
Silver	7440-22-4	320	2000	62.0	mg/L	I	1
Thallium	7440-28-0	720	2000	131	mg/L	I	1



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**Miami Dade Water & Sewer-South District, Miami, FL**  
ANNUAL PRIORITY POLLUTANTS

Sample Id: <b>596544-1-BLK</b>	Matrix: <b>WATER</b>
Lab Sample Id: <b>596544-1-BLK</b>	

Analytical Method: <b>Nitrogen, Kjeldahl, Total by EPA 351.2</b>	Prep Method: <b>E351.2P</b>
Date Analyzed: <b>Feb-25-11 11:03</b>	Analyst: <b>RGF</b>
Seq Number: <b>845291</b>	Date Prep: <b>Feb-25-11 11:03</b>
	Tech: <b>RGF</b>

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Total Organic Nitrogen (calculated)		U	0.300		mg/L	U	1
Nitrogen, Total Kjeldahl	7727-37-9	U	0.300	0.0867	mg/L	U	1
Total Nitrogen (calculated)		U	0.300		mg/L	U	1



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## 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

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**Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS**

Sample Id: 596778-1-BLK		Matrix: WATER					
Lab Sample Id: 596778-1-BLK							
Analytical Method: Total Phosphorus by EPA 365.1				Prep Method: E365.1_P			
Date Analyzed: Mar-01-11 10:43		Analyst: MID		Date Prep: Feb-28-11 11:15		Tech: MID	
Seq Number: 845669							
Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Total Phosphorus (as P)	7723-14-0	U	0.0150	0.00550	mg/L	U	1



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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: **596918-1-BLK** Matrix: **WATER**  
Lab Sample Id: **596918-1-BLK**

Analytical Method: **Chlorinated Acids in Water by EPA 515.1** Prep Method: **E515.1P**  
Date Analyzed: **Mar-10-11 21:46** Analyst: **SBR** Date Prep: **Mar-02-11 13:49** Tech: **SBR**  
Seq Number: **848000**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
2,4-D	94-75-7	U	0.0500	0.0359	ug/L	U	1
Dalapon	75-99-0	U	0.0500	0.0237	ug/L	U	1
Dinoseb	88-85-7	U	0.0100	0.00317	ug/L	U	1
Pentachlorophenol	87-86-5	U	0.0100	0.00163	ug/L	U	1
Picloram	1918-02-1	U	0.0100	0.00229	ug/L	U	1
2,4,5-Tp	93-72-1	U	0.0100	0.00470	ug/L	U	1



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## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

Sample Id: 597966-1-BLK	Matrix: WATER
Lab Sample Id: 597966-1-BLK	

Analytical Method: SVOCs by EPA 525.2	Prep Method: E525P
Date Analyzed: Mar-04-11 11:00	Analyst: SUB
Seq Number: 847664	Date Prep: Mar-02-11 10:00
	Tech: SUB
	SUB: E87836

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Atrazine *	1912-24-9	U	0.100	0.0180	ug/L	U	1
Benzo(a)pyrene	50-32-8	U	0.0200	0.00647	ug/L	U	1
bis(2-Ethylhexyl) Adipate	70147-21-6	U	0.600	0.145	ug/L	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.600	0.243	ug/L	U	1
Simazine *	122-34-9	U	0.0700	0.0138	ug/L	U	1
Alachlor *	15972-60-8	U	0.200	0.0231	ug/L	U	1
Heptachlor *	76-44-8	U	0.0400	0.000970	ug/L	U	1
Heptachlor Epoxide (iso. b) *	1024-57-3	U	0.0200	0.00640	ug/L	U	1
Hexachlorobenzene *	118-74-1	U	0.100	0.0217	ug/L	U	1
Hexachlorocyclopentadiene *	77-47-4	U	0.100	0.0381	ug/L	U	1
Methoxychlor *	72-43-5	U	0.100	0.0184	ug/L	U	1
Gamma-BHC (Lindane) +	8-89-9	U	0.0200	0.00680	ug/L	U	1

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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: 597968-1-BLK Matrix: WATER  
Lab Sample Id: 597968-1-BLK

Analytical Method: Synthetic Organics by 549.2 Prep Method: E549P  
Date Analyzed: Feb-24-11 18:00 Analyst: SUB Date Prep: Feb-24-11 11:00 Tech: SUB  
Seq Number: 847669 SUB: E87836

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Diquat	231-36-7	U	0.40	0.27	ug/L	U	1



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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: **597970-1-BLK** Matrix: **WATER**  
Lab Sample Id: **597970-1-BLK**

Analytical Method: **Endothal by 548.1** Prep Method: **E548P**  
Date Analyzed: **Feb-24-11 17:00** Analyst: **SUB** Date Prep: **Feb-24-11 10:00** Tech: **SUB**  
Seq Number: **847671** SUB: **E87836**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Endothal	145-73-3	U	9.00	1.00	ug/L	U	1

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**Miami Dade Water & Sewer-South District, Miami, FL**  
ANNUAL PRIORITY POLLUTANTS

Sample Id: 597971-1-BLK	Matrix: WATER
Lab Sample Id: 597971-1-BLK	

<b>Analytical Method:</b> Glyphosate by EPA 547	<b>Prep Method:</b> SW3510C
Date Analyzed: Feb-23-11 17:00    Analyst: SUB	Date Prep: Feb-23-11 09:00    Tech: SUB
Seq Number: 847673	SUB: E87836

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Glyphosate	1071-83-6	U	6.00	1.07	ug/L	U	1

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**Miami Dade Water & Sewer-South District, Miami, FL  
ANNUAL PRIORITY POLLUTANTS**

Sample Id: 597972-1-BLK	Matrix: WATER
Lab Sample Id: 597972-1-BLK	

<b>Analytical Method:</b> Haloacetic Acids by SM6251B	<b>Prep Method:</b> E552P
Date Analyzed: Mar-04-11 18:00	Analyst: SUB
Seq Number: 847674	Date Prep: Mar-02-11 10:00
	Tech: SUB
	SUB: E87836

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Dibromoacetic Acid (DBAA)	631-64-1	U	1.00	0.270	ug/L	U	1
Dichloroacetic Acid	79-43-6	U	1.00	0.820	ug/L	U	1
Monobromoacetic Acid (MBAA)	79-08-3	U	1.00	0.249	ug/L	U	1
Monochloroacetic Acid (MCAA)	79-11-8	U	1.00	0.805	ug/L	U	1
Trichloroacetic Acid (TCAA)	76-03-9	U	1.00	0.339	ug/L	U	1



**Blank Summary** 407304



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: 844294-1-BLK Matrix: WATER  
Lab Sample Id: 844294-1-BLK

Analytical Method: MBAS Surfactants by SM5540C Prep Method:  
Date Analyzed: Feb-18-11 09:30 Analyst: ARM Date Prep: Tech: ARM  
Seq Number: 844294

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Surfactants		U	0.100	0.0430	mg/L	U	1





**Blank Summary** 407304



**Miami Dade Water & Sewer-South District, Miami, FL**  
ANNUAL PRIORITY POLLUTANTS

Sample Id: 844371-1-BLK	Matrix: WATER
Lab Sample Id: 844371-1-BLK	

Analytical Method: Color by SM2120B	Prep Method:
Date Analyzed: Feb-18-11 19:40    Analyst: MID    Date Prep:	Tech: RCH
Seq Number: 844371	

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



**Blank Summary** 407304



**Miami Dade Water & Sewer-South District, Miami, FL**  
ANNUAL PRIORITY POLLUTANTS

Sample Id: 844715-1-BLK	Matrix: WATER
Lab Sample Id: 844715-1-BLK	

Analytical Method: ODOR by SM2150B	Prep Method:
Date Analyzed: Feb-22-11 15:00    Analyst: MID    Date Prep:	Tech: MID
Seq Number: 844715	

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

Project: Florida Standard List of Methods

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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: 844813-1-BLK	Matrix: WATER
Lab Sample Id: 844813-1-BLK	

<b>Analytical Method:</b> TDS by SM2540C	<b>Prep Method:</b>		
Date Analyzed: Feb-22-11 10:00	Analyst: LUM	Date Prep:	Tech: LUM
	Seq Number: 844813		

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



**Blank Summary** 407304



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: 844845-1-BLK Matrix: WATER  
Lab Sample Id: 844845-1-BLK

Analytical Method: Turbidity by EPA 180.1 Prep Method:  
Date Analyzed: Feb-23-11 11:25 Analyst: MID Date Prep: Tech: MID  
Seq Number: 844845

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



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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: 844876-1-BLK	Matrix: WATER
Lab Sample Id: 844876-1-BLK	

Analytical Method: Ortho-Phosphorus by EPA 365.1	Prep Method:
Date Analyzed: Feb-23-11 12:42    Analyst: MID	Date Prep:    Tech: MID
Seq Number: 844876	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Ortho-Phosphate as P	7723-14-0	U	0.0200	0.00550	mg/L	U	1



**Blank Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

<b>Sample Id: 844916-1-BLK</b>	<b>Matrix: WATER</b>
<b>Lab Sample Id: 844916-1-BLK</b>	

<b>Analytical Method: Total Cyanide by EPA 335.4</b>	<b>Prep Method:</b>
<b>Date Analyzed: Feb-23-11 15:17</b> <b>Analyst: DAH</b> <b>Date Prep:</b>	<b>Tech: DAH</b>
<b>Seq Number: 844916</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Cyanide, Total	57-12-5	U	0.00500	0.00240	mg/L	U	1



**Blank Summary** 407304



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: 845174-1-BLK Matrix: WATER  
Lab Sample Id: 845174-1-BLK

Analytical Method: Nitrogen, Ammonia by EPA 350.1 Prep Method:  
Date Analyzed: Feb-24-11 15:19 Analyst: RGF Date Prep: Tech: RGF  
Seq Number: 845174

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Nitrogen, Ammonia (as N)	7664-41-7	U	0.200	0.0493	mg/L	U	1



**Blank Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: **847667-1-BLK** Matrix: **WATER**  
Lab Sample Id: **847667-1-BLK**

Analytical Method: **Carbamates by EPA 531.1** Prep Method:  
Date Analyzed: Feb-24-11 10:00 Analyst: SUB Date Prep: Tech: SUB  
Seq Number: 847667 SUB: E87836

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Aldicarb (Sulfide, Sulfoxide, And Sulfone)	116-06-3	U	0.500	0.327	ug/L	U	1
Aldicarb Sulfone	1646-88-4	U	0.500	0.285	ug/L	U	1
Aldicarb Sulfoxide	1646-87-3	U	0.500	0.368	ug/L	U	1
Carbaryl	63-25-2	U	0.700	0.365	ug/L	U	1
Carbofuran	1563-66-2	U	0.900	0.352	ug/L	U	1
3-Hydroxycarbofuran	16655-82-6	U	0.800	0.352	ug/L	U	1
Methomyl	16752-77-5	U	0.500	0.282	ug/L	U	1
Oxamyl	23135-22-0	U	2.00	0.234	ug/L	U	1

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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: **849185-1-BLK** Matrix: **WATER**  
Lab Sample Id: **849185-1-BLK**

Analytical Method: **Gross Alpha-Gross Beta by SW-846 9310** Prep Method:  
Date Analyzed: **Mar-02-11 10:00** Analyst: **SUB** Date Prep: Tech: **SUB**  
Seq Number: **849185** SUB: **E87688**

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alpha, Gross	12587-46-1	U	3.0	2.5	pCi/L	U	1



**Blank Summary**

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**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: 849187-1-BLK	Matrix: WATER
Lab Sample Id: 849187-1-BLK	

<b>Analytical Method:</b> Alpha-Emitting Radium Isotopes by SW-846 9315	<b>Prep Method:</b>		
Date Analyzed: Feb-23-11 10:00	Analyst: SUB	Date Prep:	Tech: SUB
	Seq Number: 849187		SUB: E87688

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Radium-226	13982-63-3	U	1.0	0.90	pCi/L	U	1

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Version: 1.074



**Blank Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

Sample Id: <b>849188-1-BLK</b>	Matrix: <b>WATER</b>
Lab Sample Id: <b>849188-1-BLK</b>	

Analytical Method: <b>Radium-228 by SW-846 9320</b>	Prep Method:
Date Analyzed: Feb-28-11 10:00     Analyst: SUB	Date Prep:     Tech: SUB
Seq Number: 849188	SUB: E87688

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Radium-228	15262-20-1	U	1.0	0.95	pCi/L	U	1

Project: Florida Standard List of Methods

Version: 1.074



**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method:** Alpha-Emitting Radium Isotopes by SW-846 9315

Seq Number: 849187 Matrix: Water  
MB Sample Id: 849187-1-BLK LCS Sample Id: 849187-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Radium-226	<0.90	100	89	89	70-130	pCi/L	02/23/11 10:00	

**Analytical Method:** BOD by SM5210B

Seq Number: 845424 Matrix: Water  
MB Sample Id: 596158-1-BLK LCS Sample Id: 596158-1-BKS

Prep Method: SM5210P  
Date Prep: 02/21/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Biochemical Oxygen Demand, 5 day	<2.00	198	147	74	85-115	mg/L	02/26/11 18:19	J

**Analytical Method:** BOD by SM5210B

Seq Number: 845424 Matrix: Water  
Parent Sample Id: 407304-001

Prep Method: SM5210P  
Date Prep: 02/21/2011  
MD Sample Id: 407304-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Biochemical Oxygen Demand, 5 day	15.0	13.2	13	25	mg/L	02/26/11 18:19	

**Analytical Method:** Chlorinated Acids in Water by EPA 515.1

Seq Number: 848000 Matrix: Water  
MB Sample Id: 596918-1-BLK LCS Sample Id: 596918-1-BKS

Prep Method: E515.1P  
Date Prep: 03/02/2011  
LCSD Sample Id: 596918-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
2,4-D	<0.0359	5	3.970	79	4.380	88	70-130	10	30	ug/L	03/16/11 12:19	
Dalapon	<0.0237	0.5	0.636	127	0.513	103	70-130	21	30	ug/L	03/16/11 12:19	
Dinoseb	<0.00317	0.5	0.509	102	0.516	103	70-130	1	30	ug/L	03/16/11 12:19	
Pentachlorophenol	<0.00163	0.5	0.652	130	0.715	143	70-130	9	30	ug/L	03/16/11 12:19	J
Picloram	<0.00229	0.5	0.353	71	0.358	72	70-130	1	30	ug/L	03/16/11 12:19	
2,4,5-Tp	<0.00470	0.5	0.625	125	0.643	129	70-130	3	30	ug/L	03/16/11 12:19	

**Analytical Method:** Color by SM2120B

Seq Number: 844371 Matrix: Water  
MB Sample Id: 844371-1-BLK LCS Sample Id: 844371-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Color	<0.50	50	50	100	80-120	CU	02/18/11 19:40	



# QC Summary

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## Miami Dade Water & Sewer-South District, Miami, FL ANNUAL PRIORITY POLLUTANTS

**Analytical Method:** Color by SM2120B  
**Seq Number:** 844371  
**Parent Sample Id:** 407153-002

**Matrix:** Waste Water

**MD Sample Id:** 407153-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Color	50	50	0	20	CU	02/18/11 19:40	

**Analytical Method:** E624 Volatile  
**Seq Number:** 845297  
**MB Sample Id:** 596550-1-BLK

**Matrix:** Water

**Prep Method:** SW5030B  
**Date Prep:** 02/24/2011

**LCS Sample Id:** 596550-1-BKS

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

**Prep Method:** SW5030B  
**Date Prep:** 02/24/2011  
**MSD Sample Id:** 407563-001 S

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:** EDB, DBCP & 123TCP by EPA 504.1  
**Seq Number:** 845325  
**MB Sample Id:** 596407-1-BLK

**Matrix:** Water

**Prep Method:** E504.1P  
**Date Prep:** 02/24/2011  
**LCS Sample Id:** 596407-1-BKS  
**LCSD Sample Id:** 596407-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00370	0.25	0.250	100	0.240	96	70-130	4	20	ug/L	02/25/11 16:34	
1,2-Dibromo-3-Chloropropane	<0.00310	0.25	0.270	108	0.230	92	70-130	16	20	ug/L	02/25/11 16:34	

**Analytical Method:** EDB, DBCP & 123TCP by EPA 504.1  
**Seq Number:** 845325  
**MB Sample Id:** 596407-1-BLK

**Matrix:** Water

**Prep Method:** E504.1P  
**Date Prep:** 02/24/2011

**LCS Sample Id:** 596407-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,2,3-Trichloropropane	<0.00310	0.25	0.230	92	70-130	ug/L	02/25/11 16:34	



**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method:** EDB, DBCP & 123TCP by EPA 504.1

Seq Number: 845325

Matrix: Water

Prep Method: E504.1P

Date Prep: 02/24/2011

Parent Sample Id: 407304-001

MS Sample Id: 407304-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00315	0.213	0.212	100	70-130	ug/L	02/25/11 19:05	
1,2-Dibromo-3-Chloropropane	<0.00264	0.213	0.272	128	70-130	ug/L	02/25/11 19:05	

**Analytical Method:** Endothall by 548.1

Seq Number: 847671

Matrix: Water

Prep Method: E548P

Date Prep: 02/24/2011

MB Sample Id: 597970-1-BLK

LCS Sample Id: 597970-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Endothal	<1.00	25	25.400	102	40-105	ug/L	02/24/11 17:00	

**Analytical Method:** Gross Alpha-Gross Beta by SW-846 9310

Seq Number: 849185

Matrix: Water

MB Sample Id: 849185-1-BLK

LCS Sample Id: 849185-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Alpha, Gross	<2.5	100	72	72	70-130	pCi/L	03/02/11 10:00	

**Analytical Method:** Haloacetic Acids by SM6251B

Seq Number: 847674

Matrix: Water

Prep Method: E552P

Date Prep: 03/02/2011

MB Sample Id: 597972-1-BLK

LCS Sample Id: 597972-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Dibromoacetic Acid (DBAA)	<0.270	20	16.9	85	75-125	ug/L	03/04/11 18:00	
Dichloroacetic Acid	<0.820	20	17.7	89	75-115	ug/L	03/04/11 18:00	
Monobromoacetic Acid (MBAA)	<0.249	20	18.2	91	75-120	ug/L	03/04/11 18:00	
Monochloroacetic Acid (MCAA)	<0.805	20	20.0	100	70-125	ug/L	03/04/11 18:00	
Trichloroacetic Acid (TCAA)	<0.339	20	18.2	91	80-115	ug/L	03/04/11 18:00	

**Analytical Method:** MBAS Surfactants by SM5540C

Seq Number: 844294

Matrix: Water

MB Sample Id: 844294-1-BLK

LCS Sample Id: 844294-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Surfactants	<0.0430	1	1.02	102	70-130	mg/L	02/18/11 09:30	



**QC Summary** 407304



**Miami Dade Water & Sewer-South District, Miami, FL**  
ANNUAL PRIORITY POLLUTANTS

**Analytical Method:** MBAS Surfactants by SM5540C

Seq Number: 844294

Matrix: Water

Parent Sample Id: 407052-002

MS Sample Id: 407052-002 S

MSD Sample Id: 407052-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Surfactants	0.108	1	1.14	103	1.14	103	70-130	0	30	mg/L	02/18/11 09:30	

**Analytical Method:** MBAS Surfactants by SM5540C

Seq Number: 844294

Matrix: Water

Parent Sample Id: 407052-001

MD Sample Id: 407052-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Surfactants	<0.0430	<0.0430	NC	30	mg/L	02/18/11 09:30	

**Analytical Method:** MBAS Surfactants by SM5540C

Seq Number: 844294

Matrix: Water

Parent Sample Id: 407113-001

MD Sample Id: 407113-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Surfactants	<0.0430	<0.0430	NC	30	mg/L	02/18/11 09:30	

**Analytical Method:** Mercury by EPA 245.1

Seq Number: 845111

Matrix: Water

Prep Method: E245.1P

MB Sample Id: 596342-1-BLK

LCS Sample Id: 596342-1-BKS

Date Prep: 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Mercury	<0.0593	2	2.15	108	85-115	ug/L	02/24/11 13:52	

**Analytical Method:** Mercury by EPA 245.1

Seq Number: 845111

Matrix: Water

Prep Method: E245.1P

Parent Sample Id: 407304-001

MS Sample Id: 407304-001 S

Date Prep: 02/24/2011

MSD Sample Id: 407304-001 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	2.11	106	2.15	108	85-115	2	20	ug/L	02/24/11 13:54	

**Analytical Method:** Nitrogen, Ammonia by EPA 350.1

Seq Number: 845174

Matrix: Water

MB Sample Id: 845174-1-BLK

LCS Sample Id: 845174-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<0.0493	2.5	2.46	98	90-110	mg/L	02/24/11 15:20	



**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method: Nitrogen, Ammonia by EPA 350.1**

Seq Number: 845174 Matrix: Water  
Parent Sample Id: 407304-001 MS Sample Id: 407304-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	21.5	2.5	22.9	56	90-110	mg/L	02/24/11 16:00	J

**Analytical Method: Nitrogen, Ammonia by EPA 350.1**

Seq Number: 845174 Matrix: Ground Water  
Parent Sample Id: 407446-008 MS Sample Id: 407446-008 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.745	2.5	2.98	89	90-110	mg/L	02/24/11 15:41	J

**Analytical Method: Nitrogen, Ammonia by EPA 350.1**

Seq Number: 845174 Matrix: Ground Water  
Parent Sample Id: 407446-008 MD Sample Id: 407446-008 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.745	0.728	2	20	mg/L	02/24/11 15:43	

**Analytical Method: Nitrogen, Ammonia by EPA 350.1**

Seq Number: 845174 Matrix: Water  
Parent Sample Id: 407304-001 MD Sample Id: 407304-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	21.5	20.8	3	20	mg/L	02/24/11 16:03	

**Analytical Method: Nitrogen, Kjeldahl, Total by EPA 351.2**

Seq Number: 845291 Matrix: Water Prep Method: E351.2P  
MB Sample Id: 596544-1-BLK LCS Sample Id: 596544-1-BKS Date Prep: 02/25/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Nitrogen, Total Kjeldahl	<0.0867	5	5.42	108	90-110	mg/L	02/25/11 11:04	

**Analytical Method: Nitrogen, Kjeldahl, Total by EPA 351.2**

Seq Number: 845291 Matrix: Ground Water Prep Method: E351.2P  
Parent Sample Id: 407503-002 MS Sample Id: 407503-002 S Date Prep: 02/25/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Nitrogen, Total Kjeldahl	0.150	5	4.94	96	90-110	mg/L	02/25/11 11:24	





**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method:** Nitrogen, Kjeldahl, Total by EPA 351.2      **Prep Method:** E351.2P  
**Seq Number:** 845291      **Matrix:** Water      **Date Prep:** 02/25/2011  
**Parent Sample Id:** 407304-001      **MS Sample Id:** 407304-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Nitrogen, Total Kjeldahl	23.5	5	31.0	150	90-110	mg/L	02/25/11 11:44	J

**Analytical Method:** Nitrogen, Kjeldahl, Total by EPA 351.2      **Prep Method:** E351.2P  
**Seq Number:** 845291      **Matrix:** Water      **Date Prep:** 02/25/2011  
**Parent Sample Id:** 407304-001      **MD Sample Id:** 407304-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Total Kjeldahl	23.5	25.2	7	20	mg/L	02/25/11 11:47	

**Analytical Method:** Nitrogen, Kjeldahl, Total by EPA 351.2      **Prep Method:** E351.2P  
**Seq Number:** 845291      **Matrix:** Ground Water      **Date Prep:** 02/25/2011  
**Parent Sample Id:** 407503-002      **MD Sample Id:** 407503-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Total Kjeldahl	0.150	0.130	14	20	mg/L	02/25/11 11:50	I

**Analytical Method:** Oil and Grease by EPA 1664A      **Prep Method:** E1664A\_PREP  
**Seq Number:** 844928      **Matrix:** Water      **Date Prep:** 02/22/2011  
**MB Sample Id:** 596109-1-BLK      **LCS Sample Id:** 596109-1-BKS

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      **Prep Method:** E1664A\_PREP  
**Seq Number:** 844928      **Matrix:** Water      **Date Prep:** 02/22/2011  
**Parent Sample Id:** 407390-001      **MS Sample Id:** 407390-001 S      **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	



**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method:** Organochlorine Pesticides and PCBs by EPA 608

Seq Number: 845273

Matrix: Water

Prep Method: E608P

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	

**Analytical Method:** Ortho-Phosphorus by EPA 365.1

Seq Number: 844876

Matrix: Water

MB Sample Id: 844876-1-BLK

LCS Sample Id: 844876-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Ortho-Phosphate as P	<0.00550	0.5	0.506	101	90-110	mg/L	02/23/11 12:43	

**Analytical Method:** Ortho-Phosphorus by EPA 365.1

Seq Number: 844876

Matrix: Water

Parent Sample Id: 407304-001

MS Sample Id: 407304-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Ortho-Phosphate as P	2.19	0.5	2.56	74	90-110	mg/L	02/23/11 12:53	J

**Analytical Method:** Ortho-Phosphorus by EPA 365.1

Seq Number: 844876

Matrix: Water

Parent Sample Id: 407304-001

MD Sample Id: 407304-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Ortho-Phosphate as P	2.19	2.20	0	20	mg/L	02/23/11 12:51	



**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method:** Pri / Sec ICP-AES Metals by EPA 200.7  
**Seq Number:** 846038 **Matrix:** Water  
**MB Sample Id:** 596294-1-BLK **LCS Sample Id:** 596294-1-BKS

**Prep Method:** E200.7P  
**Date Prep:** 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Aluminum	<0.0650	5000	4.91	98	70-130	mg/L	03/01/11 02:33	
Iron	<0.0320	5000	4.68	94	70-130	mg/L	03/01/11 02:33	
Molybdenum	<0.00240	1000	1.01	101	70-130	mg/L	03/01/11 02:33	
Sodium	0.472	25000	23.4	94	70-130	mg/L	03/01/11 02:33	
Zinc	8610	1000000	1060000	106	70-130	mg/L	03/03/11 15:27	

**Analytical Method:** Pri / Sec ICP-AES Metals by EPA 200.7  
**Seq Number:** 846038 **Matrix:** Water  
**Parent Sample Id:** 407301-001 **MS Sample Id:** 407301-001 S

**Prep Method:** E200.7P  
**Date Prep:** 02/24/2011  
**MSD Sample Id:** 407301-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Aluminum	<0.0650	5000	5.88	118	5.89	118	70-130	0	20	mg/L	03/01/11 02:49	
Iron	<0.0320	5000	78.4	1568	76.5	1530	70-130	2	20	mg/L	03/01/11 02:49	J
Molybdenum	<0.00240	1000	1.08	108	1.10	110	70-130	2	20	mg/L	03/01/11 02:49	
Sodium	40.8	25000	2920	11517	2910	11477	70-130	0	20	mg/L	03/01/11 02:49	J
Zinc	0.0227	1000	4.78	476	4.78	476	70-130	0	20	mg/L	03/01/11 02:49	J

**Analytical Method:** Pri/Sec Metals per ICP/MS by EPA 200.8  
**Seq Number:** 845492 **Matrix:** Water  
**MB Sample Id:** 596471-1-BLK **LCS Sample Id:** 596471-1-BKS

**Prep Method:** E200.8P  
**Date Prep:** 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Antimony	<1380	200000	223000	112	85-115	mg/L	03/01/11 21:21	
Arsenic	<900	200000	213000	107	85-115	mg/L	03/01/11 21:21	
Barium	<882	200000	219000	110	85-115	mg/L	03/01/11 21:21	
Beryllium	300	200000	210000	105	85-115	mg/L	03/01/11 21:21	
Cadmium	<168	200000	208000	104	85-115	mg/L	03/01/11 21:21	
Chromium	<302	200000	215000	108	85-115	mg/L	03/01/11 21:21	
Copper	<343	200000	213000	107	85-115	mg/L	03/01/11 21:21	
Lead	<1130	200000	215000	108	85-115	mg/L	03/01/11 21:21	
Manganese	<312	200000	213000	107	85-115	mg/L	03/01/11 21:21	
Nickel	<194	200000	208000	104	85-115	mg/L	03/01/11 21:21	
Selenium	<500	200000	210000	105	85-115	mg/L	03/01/11 21:21	
Silver	<62.0	100000	109000	109	85-115	mg/L	03/01/11 21:21	
Thallium	<131	200000	221000	111	85-115	mg/L	03/01/11 21:21	



**QC Summary**

407304



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method:** Pri/Sec Metals per ICP/MS by EPA 200.8

**Prep Method:** E200.8P

**Seq Number:** 845492

**Matrix:** Water

**Date Prep:** 02/24/2011

**Parent Sample Id:** 407543-001

**MS Sample Id:** 407543-001 S

**MSD Sample Id:** 407543-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Antimony	<0.00138	200	0.285	143	0.287	144	70-130	1	20	mg/L	02/25/11 13:25	J
Arsenic	0.00238	200	0.267	132	0.269	133	70-130	1	20	mg/L	02/25/11 13:25	J
Barium	0.0281	200	0.293	132	0.294	133	70-130	0	20	mg/L	02/25/11 13:25	J
Beryllium	0.000310	200	0.269	134	0.268	134	70-130	0	20	mg/L	02/25/11 13:25	J
Cadmium	<0.000168	200	0.264	132	0.268	134	70-130	2	20	mg/L	02/25/11 13:25	J
Chromium	0.000730	200	0.265	132	0.270	135	70-130	2	20	mg/L	02/25/11 13:25	J
Copper	<0.000343	200	0.252	126	0.256	128	70-130	2	20	mg/L	02/25/11 13:25	J
Lead	<0.00113	200	0.268	134	0.271	136	70-130	1	20	mg/L	02/25/11 13:25	J
Manganese	0.0724	200	0.333	130	0.337	132	70-130	1	20	mg/L	02/25/11 13:25	J
Nickel	<0.000194	200	0.256	128	0.260	130	70-130	2	20	mg/L	02/25/11 13:25	J
Selenium	0.00106	200	0.259	129	0.265	132	70-130	2	20	mg/L	02/25/11 13:25	J
Silver	<0.0000620	100	0.126	126	0.128	128	70-130	2	20	mg/L	02/25/11 13:25	J
Thallium	0.000340	200	0.277	138	0.277	138	70-130	0	20	mg/L	02/25/11 13:25	J

**Analytical Method:** Pri/Sec Metals per ICP/MS by EPA 200.8

**Prep Method:** E200.8P

**Seq Number:** 845492

**Matrix:** Water

**Date Prep:** 02/24/2011

**Parent Sample Id:** 407543-002

**MS Sample Id:** 407543-002 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Antimony	<0.00138	200	0.285	143	70-130	mg/L	02/25/11 13:48	J
Arsenic	0.0213	200	0.278	128	70-130	mg/L	02/25/11 13:48	J
Barium	0.0834	200	0.345	131	70-130	mg/L	02/25/11 13:48	J
Beryllium	0.000330	200	0.267	133	70-130	mg/L	02/25/11 13:48	J
Cadmium	<0.000168	200	0.266	133	70-130	mg/L	02/25/11 13:48	J
Chromium	0.00101	200	0.261	130	70-130	mg/L	02/25/11 13:48	J
Copper	<0.000343	200	0.247	124	70-130	mg/L	02/25/11 13:48	J
Lead	<0.00113	200	0.267	134	70-130	mg/L	02/25/11 13:48	J
Manganese	0.0328	200	0.286	127	70-130	mg/L	02/25/11 13:48	J
Nickel	0.00271	200	0.256	127	70-130	mg/L	02/25/11 13:48	J
Selenium	0.000860	200	0.227	113	70-130	mg/L	02/25/11 13:48	J
Silver	<0.0000620	100	0.127	127	70-130	mg/L	02/25/11 13:48	J
Thallium	0.000210	200	0.276	138	70-130	mg/L	02/25/11 13:48	J

**Analytical Method:** Radium-228 by SW-846 9320

**Seq Number:** 849188

**Matrix:** Water

**MB Sample Id:** 849188-1-BLK

**LCS Sample Id:** 849188-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Radium-228	<0.95	100	75	75	70-130	pCi/L	02/28/11 10:00	J



**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method:** SVOCs by EPA 525.2

**Seq Number:** 847664

**MB Sample Id:** 597966-1-BLK

**Matrix:** Water

**LCS Sample Id:** 597966-1-BKS

**Prep Method:** E525P

**Date Prep:** 03/02/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Atrazine	<0.0180	1	1.21	121	70-130	ug/L	03/04/11 11:00	
Benzo(a)pyrene	<0.00647	1	0.942	94	70-130	ug/L	03/04/11 11:00	
bis(2-Ethylhexyl) Adipate	<0.145	1	1.24	124	70-130	ug/L	03/04/11 11:00	
bis(2-ethylhexyl) phthalate	<0.243	1	1.18	118	70-130	ug/L	03/04/11 11:00	
Alachlor	<0.0231	1	1.22	122	70-130	ug/L	03/04/11 11:00	
Simazine	<0.0138	1	1.25	125	70-130	ug/L	03/04/11 11:00	
Heptachlor	<0.000970	1	1.06	106	70-130	ug/L	03/04/11 11:00	
Heptachlor Epoxide (iso. b)	<0.00640	1	1.15	115	70-130	ug/L	03/04/11 11:00	
Hexachlorobenzene	<0.0217	1	1.08	108	70-130	ug/L	03/04/11 11:00	
Hexachlorocyclopentadiene	<0.0381	1	0.584	58	70-130	ug/L	03/04/11 11:00	J
Methoxychlor	<0.0184	1	1.30	130	70-130	ug/L	03/04/11 11:00	J
Gamma-BHC (Lindane)	<0.00680	1	1.10	110	70-130	ug/L	03/04/11 11:00	



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-Bromophenyl-phenylether	<0.271	50	40.2	80	39.4	79	53-127	2	20	ug/L	02/25/11 00:53	
Carbazole	<0.278	50	42.4	85	43.2	86	73-95	2	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	
4-Chlorophenyl Phenyl Ether	<0.446	50	37.7	75	37.3	75	25-158	1	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	
n-Decane	<0.328	50	18.3	37	17.3	35	39-87	6	20	ug/L	02/25/11 00:53	J
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	
1,2-Dichlorobenzene	<0.342	50	22.2	44	21.5	43	32-129	3	20	ug/L	02/25/11 00:53	
1,3-Dichlorobenzene	<0.352	50	20.6	41	19.3	39	10-172	7	20	ug/L	02/25/11 00:53	
1,4-Dichlorobenzene	<0.278	50	21.2	42	20.2	40	20-124	5	20	ug/L	02/25/11 00:53	
3,3-Dichlorobenzidine	<0.309	50	38.5	77	40.4	81	10-262	5	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	
1,2-Diphenylhydrazine	<0.234	50	41.3	83	40.7	81	58-102	1	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	



# QC Summary

407304



## 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
Isophorone	<0.337	50	42.3	85	41.3	83	21-196	2	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	
n-Octadecane	<0.317	50	48.0	96	48.3	97	58-120	1	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	
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	
1,2,4-Trichlorobenzene	<0.225	50	23.3	47	23.6	47	47-93	1	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:** Synthetic Organics by 549.2  
**Seq Number:** 847669  
**MB Sample Id:** 597968-1-BLK

**Matrix:** Water  
**LCS Sample Id:** 597968-1-BKS

**Prep Method:** E549P  
**Date Prep:** 02/24/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Diquat	<0.27	4	4.20	105	80-120	ug/L	02/24/11 18:00	

**Analytical Method:** Total Cyanide by EPA 335.4  
**Seq Number:** 844916  
**MB Sample Id:** 844916-1-BLK

**Matrix:** Water  
**LCS Sample Id:** 844916-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	<0.00240	0.2	0.216	108	90-110	mg/L	02/23/11 15:20	



**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method:** Total Cyanide by EPA 335.4

Seq Number: 844916 Matrix: Waste Water  
Parent Sample Id: 406965-001 MS Sample Id: 406965-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	0.00735	0.2	0.110	51	90-110	mg/L	02/23/11 15:26	J

**Analytical Method:** Total Cyanide by EPA 335.4

Seq Number: 844916 Matrix: Ground Water  
Parent Sample Id: 407101-004 MS Sample Id: 407101-004 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	<0.00240	0.2	0.105	53	90-110	mg/L	02/23/11 15:55	J

**Analytical Method:** Total Cyanide by EPA 335.4

Seq Number: 844916 Matrix: Ground Water  
Parent Sample Id: 407101-004 MD Sample Id: 407101-004 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Cyanide, Total	<0.00240	<0.00240	NC	10	mg/L	02/23/11 15:59	

**Analytical Method:** Total Cyanide by EPA 335.4

Seq Number: 844916 Matrix: Waste Water  
Parent Sample Id: 406965-001 MD Sample Id: 406965-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Cyanide, Total	0.00735	0.00873	17	10	mg/L	02/23/11 16:12	J

**Analytical Method:** Total Phosphorus by EPA 365.1

Seq Number: 845669 Matrix: Water Prep Method: E365.1\_P  
MB Sample Id: 596778-1-BLK LCS Sample Id: 596778-1-BKS Date Prep: 02/28/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Total Phosphorus (as P)	<0.00550	0.5	0.488	98	90-110	mg/L	03/01/11 10:44	

**Analytical Method:** Total Phosphorus by EPA 365.1

Seq Number: 845669 Matrix: Water Prep Method: E365.1\_P  
Parent Sample Id: 407304-002 MS Sample Id: 407304-002 S Date Prep: 02/28/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Phosphorus (as P)	2.02	0.5	2.57	110	90-110	mg/L	03/01/11 11:19	





**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
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**Analytical Method:** Total Phosphorus by EPA 365.1  
**Seq Number:** 845669  
**Parent Sample Id:** 407535-001

**Matrix:** Surface Water  
**MS Sample Id:** 407535-001 S

**Prep Method:** E365.1\_P  
**Date Prep:** 02/28/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Phosphorus (as P)	<0.00550	0.5	0.448	90	90-110	mg/L	03/01/11 11:03	

**Analytical Method:** Total Phosphorus by EPA 365.1  
**Seq Number:** 845669  
**Parent Sample Id:** 407535-001

**Matrix:** Surface Water

**Prep Method:** E365.1\_P  
**Date Prep:** 02/28/2011  
**MD Sample Id:** 407535-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Phosphorus (as P)	<0.00550	<0.00550	NC	20	mg/L	03/01/11 11:02	

**Analytical Method:** Total Phosphorus by EPA 365.1  
**Seq Number:** 845669  
**Parent Sample Id:** 407304-002

**Matrix:** Water

**Prep Method:** E365.1\_P  
**Date Prep:** 02/28/2011  
**MD Sample Id:** 407304-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Phosphorus (as P)	2.02	2.18	8	20	mg/L	03/01/11 11:18	



**QC Summary** 407304



**Miami Dade Water & Sewer-South District, Miami, FL**  
ANNUAL PRIORITY POLLUTANTS

Analytical Method: Volatile Organic Compounds by EPA 524.2

Prep Method: E524P

Seq Number: 845053

Matrix: Water

Date Prep: 02/23/2011

MB Sample Id: 596406-1-BLK

LCS Sample Id: 596406-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.0540	5	4.53	91	70-130	ug/L	02/23/11 15:52	
Bromochloromethane	<0.133	5	4.99	100	70-130	ug/L	02/23/11 15:52	
Bromodichloromethane	<0.174	5	4.87	97	70-130	ug/L	02/23/11 15:52	
Bromoform	<0.116	5	4.50	90	70-130	ug/L	02/23/11 15:52	
Carbon Tetrachloride	<0.0994	5	4.53	91	70-130	ug/L	02/23/11 15:52	
Chlorobenzene	<0.0745	5	4.48	90	70-130	ug/L	02/23/11 15:52	
Chloroform	<0.220	5	4.67	93	70-130	ug/L	02/23/11 15:52	
Dibromochloromethane	<0.102	5	4.60	92	70-130	ug/L	02/23/11 15:52	
1,2-Dichlorobenzene	<0.0832	5	4.19	84	70-130	ug/L	02/23/11 15:52	
1,4-Dichlorobenzene	<0.0696	5	4.13	83	70-130	ug/L	02/23/11 15:52	
1,2-Dichloroethane	<0.265	5	4.70	94	70-130	ug/L	02/23/11 15:52	
cis-1,2-Dichloroethylene	<0.461	5	4.89	98	70-130	ug/L	02/23/11 15:52	
trans-1,2-dichloroethylene	<0.0812	5	4.55	91	70-130	ug/L	02/23/11 15:52	
1,1-Dichloroethene	<0.116	5	4.50	90	70-130	ug/L	02/23/11 15:52	
1,2-Dichloropropane	<0.0859	5	4.78	96	70-130	ug/L	02/23/11 15:52	
Ethylbenzene	<0.0723	5	4.27	85	70-130	ug/L	02/23/11 15:52	
Methylene Chloride	<0.386	5	5.40	108	70-130	ug/L	02/23/11 15:52	
Styrene	<0.0806	5	3.69	74	70-130	ug/L	02/23/11 15:52	
Tetrachloroethylene	<0.0868	5	4.05	81	70-130	ug/L	02/23/11 15:52	
Toluene	<0.0736	5	4.12	82	70-130	ug/L	02/23/11 15:52	
1,2,4-Trichlorobenzene	<0.0820	5	3.50	70	70-130	ug/L	02/23/11 15:52	
1,1,1-Trichloroethane	<0.0992	5	4.50	90	70-130	ug/L	02/23/11 15:52	
1,1,2-Trichloroethane	<0.0806	5	4.72	94	70-130	ug/L	02/23/11 15:52	
Trichloroethylene	<0.0540	5	4.34	87	70-130	ug/L	02/23/11 15:52	
1,2,3-Trichloropropane	<0.0629	5	4.85	97	70-130	ug/L	02/23/11 15:52	
Vinyl Chloride	<0.128	5	4.53	91	70-130	ug/L	02/23/11 15:52	



**QC Summary** **407304**



**Miami Dade Water & Sewer-South District, Miami, FL**  
**ANNUAL PRIORITY POLLUTANTS**

**Analytical Method:** Volatile Organic Compounds by EPA 524.2

**Seq Number:** 845053

**Matrix:** Water

**Prep Method:** E524P

**Date Prep:** 02/23/2011

**Parent Sample Id:** 407523-001

**MD Sample Id:** 407523-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0540	<0.0540	NC	21	ug/L	02/23/11 20:56	
Bromochloromethane	<0.133	<0.133	NC	20	ug/L	02/23/11 20:56	
Bromodichloromethane	5.89	6.22	5	20	ug/L	02/23/11 20:56	
Bromoform	<0.116	<0.116	NC	20	ug/L	02/23/11 20:56	
Carbon Tetrachloride	<0.0994	<0.0994	NC	20	ug/L	02/23/11 20:56	
Chlorobenzene	<0.0745	<0.0745	NC	21	ug/L	02/23/11 20:56	
Chloroform	44.4	44.0	1	20	ug/L	02/23/11 20:56	
Dibromochloromethane	0.640	0.630	2	20	ug/L	02/23/11 20:56	
1,2-Dichlorobenzene	<0.0832	<0.0832	NC	20	ug/L	02/23/11 20:56	
1,4-Dichlorobenzene	<0.0696	<0.0696	NC	20	ug/L	02/23/11 20:56	
1,2-Dichloroethane	<0.265	<0.265	NC	20	ug/L	02/23/11 20:56	
cis-1,2-Dichloroethylene	<0.461	<0.461	NC	20	ug/L	02/23/11 20:56	
trans-1,2-dichloroethylene	<0.0812	<0.0812	NC	20	ug/L	02/23/11 20:56	
1,1-Dichloroethene	<0.116	<0.116	NC	22	ug/L	02/23/11 20:56	
1,2-Dichloropropane	<0.0859	<0.0859	NC	20	ug/L	02/23/11 20:56	
Ethylbenzene	<0.0723	<0.0723	NC	20	ug/L	02/23/11 20:56	
Methylene Chloride	<0.386	<0.386	NC	35	ug/L	02/23/11 20:56	
Styrene	<0.0806	<0.0806	NC	51	ug/L	02/23/11 20:56	
Tetrachloroethylene	<0.0868	<0.0868	NC	20	ug/L	02/23/11 20:56	
Toluene	<0.0736	<0.0736	NC	21	ug/L	02/23/11 20:56	
1,2,4-Trichlorobenzene	<0.0820	<0.0820	NC	20	ug/L	02/23/11 20:56	
1,1,1-Trichloroethane	<0.0992	<0.0992	NC	20	ug/L	02/23/11 20:56	
1,1,2-Trichloroethane	<0.0806	<0.0806	NC	20	ug/L	02/23/11 20:56	
Trichloroethylene	<0.0540	<0.0540	NC	24	ug/L	02/23/11 20:56	
Vinyl Chloride	<0.128	<0.128	NC	20	ug/L	02/23/11 20:56	

**Analytical Method:** pH by SM4500-H

**Seq Number:** 844729

**Matrix:** Water

**Parent Sample Id:** 407304-001

**MD Sample Id:** 407304-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
pH	7.43	7.43	0	20	SU	02/22/11 16:10	

**Analytical Method:** Turbidity by EPA 180.1

**Seq Number:** 844845

**Matrix:** Water

**MB Sample Id:** 844845-1-BLK

**LCS Sample Id:** 844845-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Turbidity	<0.100	18	18.4	102	80-120	NTU	02/23/11 11:25	



**QC Summary** 407304



**Miami Dade Water & Sewer-South District, Miami, FL**  
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**Analytical Method:** Turbidity by EPA 180.1

Seq Number: 844845

Matrix: Surface Water

Parent Sample Id: 407535-002

MD Sample Id: 407535-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Turbidity	1.63	1.76	8	20	NTU	02/23/11 11:25	

**Analytical Method:** Inorganic Anions by EPA 300

Seq Number: 844705

Matrix: Water

MB Sample Id: 596223-1-BLK

LCS Sample Id: 596223-1-BKS

Prep Method: E300P

Date Prep: 02/18/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Fluoride	<0.0300	2	2.08	104	90-110	mg/L	02/18/11 21:56	
Chloride	<0.0664	50	50.2	100	90-110	mg/L	02/18/11 21:56	
Nitrite as N	<0.00530	3.04	3.28	108	90-110	mg/L	02/18/11 21:56	
Sulfate	<0.0755	50	51.0	102	90-110	mg/L	02/18/11 21:56	
Nitrate as N	<0.00740	2.26	2.26	100	90-110	mg/L	02/18/11 21:56	

**Analytical Method:** Inorganic Anions by EPA 300

Seq Number: 844705

Matrix: Water

Parent Sample Id: 407310-001

MS Sample Id: 407310-001 S

Prep Method: E300P

Date Prep: 02/18/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Fluoride	0.158	2	2.34	109	80-120	mg/L	02/18/11 22:47	
Chloride	46.3	50	90.0	87	80-120	mg/L	02/18/11 22:47	
Nitrite as N	<0.00530	3.04	3.43	113	80-120	mg/L	02/18/11 22:47	
Sulfate	12.3	50	63.5	102	80-120	mg/L	02/18/11 22:47	
Nitrate as N	0.136	2.26	2.50	105	80-120	mg/L	02/18/11 22:47	

**Analytical Method:** Inorganic Anions by EPA 300

Seq Number: 844705

Matrix: Water

Parent Sample Id: 407310-011

MS Sample Id: 407310-011 S

Prep Method: E300P

Date Prep: 02/19/2011

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Fluoride	0.157	2	2.35	110	80-120	mg/L	02/19/11 02:46	
Chloride	47.1	50	91.2	88	80-120	mg/L	02/19/11 02:46	
Nitrite as N	<0.00530	3.04	3.48	114	80-120	mg/L	02/19/11 02:46	
Sulfate	12.2	50	64.4	104	80-120	mg/L	02/19/11 02:46	
Nitrate as N	0.158	2.26	2.53	105	80-120	mg/L	02/19/11 02:46	



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**Analytical Method:** Inorganic Anions by EPA 300  
**Seq Number:** 844705  
**Parent Sample Id:** 407310-001

**Matrix:** Water

**Prep Method:** E300P  
**Date Prep:** 02/18/2011  
**MD Sample Id:** 407310-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Fluoride	0.158	0.166	5	20	mg/L	02/18/11 22:30	I
Chloride	46.3	46.1	0	20	mg/L	02/18/11 22:30	
Nitrite as N	<0.00530	<0.00530	NC	20	mg/L	02/18/11 22:30	
Sulfate	12.3	12.2	1	20	mg/L	02/18/11 22:30	
Nitrate as N	0.136	0.136	0	20	mg/L	02/18/11 22:30	

**Analytical Method:** Inorganic Anions by EPA 300  
**Seq Number:** 844705  
**Parent Sample Id:** 407310-011

**Matrix:** Water

**Prep Method:** E300P  
**Date Prep:** 02/19/2011  
**MD Sample Id:** 407310-011 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Fluoride	0.157	0.147	7	20	mg/L	02/19/11 02:29	I
Chloride	47.1	47.2	0	20	mg/L	02/19/11 02:29	
Nitrite as N	<0.00530	<0.00530	NC	20	mg/L	02/19/11 02:29	
Sulfate	12.2	12.2	0	20	mg/L	02/19/11 02:29	
Nitrate as N	0.158	0.159	1	20	mg/L	02/19/11 02:29	

**Analytical Method:** TDS by SM2540C  
**Seq Number:** 844813  
**MB Sample Id:** 844813-1-BLK

**Matrix:** Water  
**LCS Sample Id:** 844813-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Total dissolved solids	<5.00	1000	928	93	80-120	mg/L	02/22/11 10:00	

**Analytical Method:** TDS by SM2540C  
**Seq Number:** 844813  
**Parent Sample Id:** 407388-003

**Matrix:** Water

**MD Sample Id:** 407388-003 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total dissolved solids	358	355	1	30	mg/L	02/22/11 10:00	

**Analytical Method:** Glyphosate by EPA 547  
**Seq Number:** 847673  
**MB Sample Id:** 597971-1-BLK

**Matrix:** Water  
**LCS Sample Id:** 597971-1-BKS

**Prep Method:** SW3510C  
**Date Prep:** 02/23/2011

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Glyphosate	<1.07	50	46.4	93	70-130	ug/L	02/23/11 17:00	



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Analytical Method: Carbamates by EPA 531.1

Seq Number: 847667

Matrix: Water

MB Sample Id: 847667-1-BLK

LCS Sample Id: 847667-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Aldicarb (Sulfide, Sulfoxide, And Sulfor	<0.327	5	5.070	101	80-120	ug/L	02/24/11 10:00	
Aldicarb Sulfone	<0.285	5	5.580	112	80-120	ug/L	02/24/11 10:00	
Aldicarb Sulfoxide	<0.368	5	4.660	93	80-120	ug/L	02/24/11 10:00	
Carbaryl	<0.365	5	4.970	99	80-120	ug/L	02/24/11 10:00	
Carbofuran	<0.352	5	4.940	99	80-120	ug/L	02/24/11 10:00	
3-Hydroxycarbofuran	<0.352	5	5.260	105	80-120	ug/L	02/24/11 10:00	
Methomyl	<0.282	5	4.790	96	80-120	ug/L	02/24/11 10:00	
Oxamyl	<0.234	5	4.850	97	80-120	ug/L	02/24/11 10:00	



