

February 28, 2012

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

RE: Project: 124090  
Pace Project No.: 3550615

Dear Clive Powell:

Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Rossy Guima

rossy.guima@pacelabs.com  
Project Manager

Enclosures

cc: Accounts Payable, Miami Dade Water & Sewer  
Department



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 124090  
Pace Project No.: 3550615

### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Arizona Certification #: AZ0735  
Colorado Certification: FL NELAC Reciprocity  
Connecticut Certification #: PH 0216  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maine Certification #: FL01264  
Massachusetts Certification #: M-FL1264  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236  
Montana Certification #: Cert 0074  
Nevada Certification: FL NELAC Reciprocity  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL765  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
U.S. Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Certification #: 00432  
Virginia Environmental Certificate #: 460165  
Washington Certification #: C955  
Wyoming Certification: FL NELAC Reciprocity  
Wyoming (EPA Region 8): FL NELAC Reciprocity

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### SAMPLE SUMMARY

Project: 124090  
Pace Project No.: 3550815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3550815001	SD-INFLUENT EAST	Water	02/21/12 23:00	02/22/12 17:10
3550815002	SD-INFLUENT WEST	Water	02/21/12 23:00	02/22/12 17:10
3550815003	SD-COMBINED EFFLUENT	Water	02/21/12 23:00	02/22/12 17:10

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### SAMPLE ANALYTE COUNT

Project: 124090  
Pace Project No.: 3550615

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3550615001	SD-INFLUENT EAST	EPA 335.4	SOA	1	PASI-O
		EPA 420.4	KDM	1	PASI-O
3550615002	SD-INFLUENT WEST	EPA 335.4	SOA	1	PASI-O
		EPA 420.4	KDM	1	PASI-O
3550615003	SD-COMBINED EFFLUENT	EPA 335.4	SOA	1	PASI-O
		EPA 420.4	KDM	1	PASI-O

### REPORT OF LABORATORY ANALYSIS

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# HITS ONLY

Project: 124090  
Pace Project No.: 3550615

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>3550615001</b>	<b>SD-INFLUENT EAST</b>					
EPA 420.4	Phenolics, Total Recoverable	0.039	mg/L	0.010	02/28/12 11:12	
<b>3550615002</b>	<b>SD-INFLUENT WEST</b>					
EPA 420.4	Phenolics, Total Recoverable	0.078	mg/L	0.020	02/28/12 11:17	
<b>3550615003</b>	<b>SD-COMBINED EFFLUENT</b>					
EPA 335.4	Cyanide	0.010	mg/L	0.010	02/24/12 10:06	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 124090  
Pace Project No.: 3550615

Sample: SD-INFLUENT EAST		Lab ID: 3550615001	Collected: 02/21/12 23:00	Received: 02/22/12 17:10	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	0.0050U	mg/L	0.010	0.0050	1	02/24/12 06:00	02/24/12 10:01	57-12-5	
420.4 Phenolics, Total	Analytical Method: EPA 420.4								
Phenolics, Total Recoverable	0.039	mg/L	0.010	0.0080	1		02/28/12 11:12		

## ANALYTICAL RESULTS

Project: 124090  
Pace Project No.: 3550615

**Sample: SD-INFLUENT WEST**      **Lab ID: 3550615002**      Collected: 02/21/12 23:00      Received: 02/22/12 17:10      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>335.4 Cyanide, Total</b> Analytical Method: EPA 335.4      Preparation Method: EPA 335.4									
Cyanide	0.0050U	mg/L	0.010	0.0050	1	02/24/12 08:00	02/24/12 10:05	57-12-5	
<b>420.4 Phenolics, Total</b> Analytical Method: EPA 420.4									
Phenolics, Total Recoverable	0.078	mg/L	0.020	0.016	1		02/28/12 11:17		



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

## ANALYTICAL RESULTS

Project: 124090  
Pace Project No.: 3550815

Sample: SD-COMBINED EFFLUENT Lab ID: 3550815003 Collected: 02/21/12 23:00 Received: 02/22/12 17:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total Analytical Method: EPA 335.4 Preparation Method: EPA 335.4									
Cyanide	0.010	mg/L	0.010	0.0050	1	02/24/12 06:00	02/24/12 10:06	57-12-5	
420.4 Phenolics, Total Analytical Method: EPA 420.4									
Phenolics, Total Recoverable	0.0080U	mg/L	0.010	0.0080	1		02/28/12 10:54		

Date: 02/28/2012 04:26 PM

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### QUALITY CONTROL DATA

Project: 124090  
Pace Project No.: 3550615

QC Batch: WETA/15393 Analysis Method: EPA 335.4  
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total  
Associated Lab Samples: 3550615001, 3550615002, 3550615003

METHOD BLANK: 345924 Matrix: Water

Associated Lab Samples: 3550615001, 3550615002, 3550615003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	0.0050U	0.010	02/24/12 09:54	

LABORATORY CONTROL SAMPLE: 345925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.05	0.053	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 345926 345927

Parameter	Units	3550615001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Cyanide	mg/L	0.0050U	.05	.05	0.052	0.052	101	102	90-110	.7 20	

### QUALITY CONTROL DATA

Project: 124090  
Pace Project No.: 3550615

QC Batch: WETA/15440 Analysis Method: EPA 420.4  
QC Batch Method: EPA 420.4 Analysis Description: 420.4 Phenolics  
Associated Lab Samples: 3550615001, 3550615002, 3550615003

METHOD BLANK: 347443 Matrix: Water

Associated Lab Samples: 3550615001, 3550615002, 3550615003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	0.0080U	0.010	02/28/12 10:36	

LABORATORY CONTROL SAMPLE: 347444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	.4	0.41	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 347445 347446

Parameter	Units	3550612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	0.12	.8	.8	0.94	0.88	102	95	90-110	7 20	

## QUALIFIERS

Project: 124090  
Pace Project No.: 3550615

## DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

## LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 124090  
Pace Project No.: 3550615

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3550615001	SD-INFLUENT EAST	EPA 335.4	WETA/15393	EPA 335.4	WETA/15396
3550615002	SD-INFLUENT WEST	EPA 335.4	WETA/15393	EPA 335.4	WETA/15396
3550615003	SD-COMBINED EFFLUENT	EPA 335.4	WETA/15393	EPA 335.4	WETA/15396
3550615001	SD-INFLUENT EAST	EPA 420.4	WETA/15440		
3550615002	SD-INFLUENT WEST	EPA 420.4	WETA/15440		
3550615003	SD-COMBINED EFFLUENT	EPA 420.4	WETA/15440		