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Water and Sewer
PO Box 330316 • 3071 SW 38 Avenue
Miami, Florida 33233-0316
T 305-665-7471

VIA ELECTRONIC CORRESPONDENCE

June 1, 2017

CCN: 61081
File No: 8.DC.52 & 77

Chief, Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
P.O. Box 7611
Ben Franklin Station
Washington, D.C. 20044-7611
RE: DOJ No. 90-5-1-1-4022/1
Tom.Mariani@usdoj.gov

Chief, Clean Water Enforcement Branch
Water Protection Division
Attn: Brad Ammons
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Ammons.Brad@epa.gov

Rachael Amy Kamons
Environmental Enforcement Section
U.S. Department of Justice
P.O. Box 7611
Ben Franklin Station
Washington, D.C. 20044-7611
Rachael.Kamons@usdoj.gov

Florida Department of Environmental Protection
Southeast District – West Palm Beach
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
Attn: Compliance/Enforcement Section
Jason.Andreotta@dep.state.fl.us

RE: Consent Decree (Case: No. 1:12-cv-24400-FAM)
Reference DOJ Case No. 90-5-1-1-4022/1
Section XI, Paragraph 52 – Force Majeure
Section XVII, Paragraph 77 – Notices
Force Majeure Notification Letter for Consent Decree Appendix D-2, Capital Improvement Project 2.22 Master Pump Station No. 2

Dear Sir/Madam:

In accordance with the provisions of Section XI, Paragraph 52 of the above referenced Consent Decree (CD), Miami-Dade County (County) notified United States Environmental Protection Agency (EPA) and Florida Department of Environmental Protection (FDEP), via email, on May 18, 2017 of a potential schedule delay in the Capital Improvement Project (CIP) 2.22 Central District Wastewater Treatment Plant (CDWWTP) Pump Station No. 2. The delay has occurred in the execution of this project when the contractor observed odors and a sheen on the groundwater during the start of excavation for the new foundation footings. Water and Sewer Department (WASD) has ceased underground work until a contamination assessment is performed on the site.

In accordance with Section XI, Paragraph 52, this notification letter shall further describe and explain the reasons for the delay; the anticipated duration of the delay; all actions taken or to be taken to prevent or minimize the delay; a schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay; County's rationale for attributing such delay to a force majeure event if it intends to assert such a claim; a statement as to whether, in the opinion of the County, such event may cause or contribute to an endangerment to public health, welfare or the environment, and documentation to support the force majeure claim.

Initial schedule challenges

In the course of setting up the process to address all of the Consent Decree projects, the County recognized the need to bring on additional staff to meet the aggressive schedules mandated by the Consent Decree. This was done by contracting with a professional consultant team of experts (led by AECOM) to assist the County in Program Management and oversight of multiple Design Services contracts. The process for hiring Engineering firms in the State of Florida is regulated under Florida Statute 287.055 "The Consultants Competitive Negotiation Act". As detailed in the First Status Report to the Court dated August 29, 2014, there was a lengthy delay in procuring the Program Management and Design Professional Firms. This resulted in a late start in the validation and design of several projects, specifically those with CD compliance dates ending 2016 through 2018, which includes this project. In addition, dates for downstream activities have been affected as is evident in the County's requests for modification of interim milestones. (Five requests submitted to EPA/FDEP in 2016 and four in 2017 to date.) Overlapping/expediting of interim activities planned to complete respective projects in accordance with the final CD milestone date has proven to be a challenge.

Explanation and description of the reasons for the delay

The scope of work for this Contract generally includes the following: replace the existing pump station effluent flowmeter with Owner furnished flowmeter, install a new Owner furnished flowmeter isolation valve, replace the existing odor control system with Owner furnished odor control system, replace the existing odor control system chemical storage and feed systems including emergency eye wash and shower and replace the dry-well ventilation system.

The contractor's initial activities associated with the odor control system were to demolish the existing structures at the north end of the pump station in preparation for construction of a new structure for the odor control system. The new structure required the contractor to demolish the existing 54-inch abandoned overflow pipe. At the start of excavation to remove the 54-inch pipe a "diesel" odor was detected and excavation was halted. The Contractor requested guidance and an alternative to removal was developed to fill the pipe with flowable fill and abandon in place. Per note 16 of the Miami Dade WASD Standards General Notes on sheet GC-1 (Attachment A), WASD Environmental Compliance was contacted and arrangements for sampling were made when the contractor resumed excavation activities for the foundation footings.

On Thursday, May 11, 2017, WASD Environmental Compliance collected water samples from the footing excavation. These samples were delivered to a 3rd party laboratory; Pace Analytical, for analysis. On May

16, 2017, the results of the testing were presented by WASD Environmental to the CD PMCM Construction Manager, Engineer and Contractor (Attachment B). The testing reveals contaminated groundwater.

Actions taken or to be taken to prevent or minimize the delay

The contractor was issued a Stop Work Order, limited to all work below grade and directed and engage the services of an environmental consultant that would develop a Work Action Plan for the contamination detected.

Anticipated duration of the delay

Until the contractor's environmental consultant has developed a scope of work and the Work Action Plan has been reviewed and approved, it is premature to forecast the anticipated duration of the delay. A follow-up letter will be provided once the mitigation action plan is developed with a schedule reflecting the plan's activities. It is WASD's intent to work closely with the contractor to identify mitigation efforts to reduce the schedule delay.

Schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay

WASD has taken or will take the following steps (in sequence) to prevent or mitigate delay or the effect of the delay:

1. Expedite contractor's environmental consultant's Work Action Plan reviewed and approved
2. Expedite review of the contractor revised project schedule
3. WASD, Engineer of Record (EOR) and PMCM will provide oversight during the implementation of the Work Action Plan to mitigate any further delays

Rationale for attributing such delay to a force majeure event

As defined in Section XI, Paragraph 51, "Force Majeure," is defined as any event arising from causes beyond the control of the County. The County did not foresee contamination at the construction site for CD CIP 2.22 CDWWTP Pump Station No. 2.

Cause or contribute to an endangerment to public health, welfare or the environment

Contamination of groundwater may cause or contribute to an endangerment to the public health, welfare or the environment. The Work Action Plan for the contamination detected will address this issue.

Should you have any questions regarding this matter, please call me at (786) 552-8894.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted

is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Maricela Fuentes, P.E., ENV SP
Assistant Director, Capital Projects

Attachments: **Attachment A** – Note 16 of the Miami Dade WASD Standards General Notes and
Attachment B – Pace Analytical Testing Results

ec: Jonathan A. Glogau
Special Counsel
Chief, Complex Litigation
Office of the Attorney General
PL-01, The Capitol
Tallahassee, FL 32399-1050
850-414-3817
Jon.Glogau@myfloridalegal.com

Florida Department of Environmental Protection
Southeast District – West Palm Beach
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
Attn: Compliance/Enforcement Section
Lisa.M.Self@dep.state.fl.us
Sed.wastewater@dep.state.fl.us

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Miami-Dade County
111 NW First Street 29th Floor
Miami, Florida 33128

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Miami-Dade Water and Sewer Department
3071 SW 38th Avenue
Miami, Florida 33146

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Miami-Dade Regulatory and
Economic Resources
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Juan Bedoya
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Carlos Hernandez (RER-DERM)
Rashid Istambouli (RER-DERM)
David Wood (CD PMCM)
Andrea Suarez Abastida (CD PMCM)
Scott Eckler (CD PMCM)
Abby Diaz (CD PMCM)

Attachment A

Note 16 of the Miami Dade WASD Standards General Notes

Plot Date: Tue 27-Sep-2016 - 02:50PM

User: callurt

File: C:\pwworkdir\0237860\T0342_Gc-1.dwg

CIVIL GENERAL NOTES:

GENERAL

- 1. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEBRIS FROM DEMOLITION AT CONTRACTORS EXPENSE.
2. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF COLUMN OR BUILDING.
3. THE CONTRACTOR SHALL DISPOSE OF ALL NON-ORGANIC WASTES SUCH AS OLD GUINITE, PIPING, ROCK RUBBLE ETC. AT AN APPROVED LANDFILL OR OTHER SUITABLE DISPOSAL SITES AT THE CONTRACTOR'S EXPENSE.

UTILITIES

- 1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION.
2. THE CONTRACTOR SHALL PROTECT ALL REMAINING EXISTING UTILITIES.
3. LOCATIONS OF UNDERGROUND UTILITIES WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT UTILITY LINES WHETHER SHOWN OR NOT.

PIPING

- 1. THE CONTRACTOR SHALL COMPLY WITH THE STATE DEPARTMENT OF HEALTH SERVICES CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 INCHES OF COVER ON ALL PIPELINES UNLESS OTHERWISE SHOWN OR DIRECTED.
3. STRAIGHT SLOPES SHALL BE MAINTAINED BETWEEN INVERT ELEVATIONS SHOWN OR SPECIFIED.

EROSION CONTROL

- 1. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR WORK DURING THE CONSTRUCTION, SIGNED AND STAMPED BY A REGISTERED FLORIDA ENGINEER PRIOR TO THE START OF CONSTRUCTION.
a. ALL SLOPES SHALL BE PROTECTED FROM EROSION DURING ROUGH GRADING OPERATIONS AND THEREAFTER, UNTIL INSTALLATION OF FINAL GROUNDCOVER.
b. ALL SLOPE PROTECTION SWALES SHALL BE CONSTRUCTED AT THE SAME TIME AS BANKS ARE GRADED.

MIAMI DADE WASD STANDARDS GENERAL NOTES:

- 1. 48 HOURS PRIOR TO DIGGING, CONTRACTOR SHALL COORDINATE WITH ALL UNDERGROUND UTILITY SERVICE COMPANIES TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES. ADDITIONALLY, CONTRACTOR SHALL CALL "SUNSHINE STATE ONE CALL OF FLORIDA, INC." FOR LOCATION OF ALL UNDERGROUND UTILITIES (811).
2. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER PROPERTY AND SHALL BE RESPONSIBLE FOR ANY DAMAGES INCURRED DURING CONSTRUCTION AND SHALL REPAIR TO ITS ORIGINAL CONDITION SAID DAMAGES AT HIS EXPENSE ONLY.
3. LOCATION OF EXISTING FACILITIES AS SHOWN ON THE CONSTRUCTION DRAWINGS ARE FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FACILITIES WHETHER SHOWN OR NOT SHOWN.

THE FOLLOWING ARE REQUIREMENTS OF THE DEPARTMENT OF HEALTH

- 1. SEPARATION SHALL BE MEASURED FROM OUTSIDE EDGE TO OUTSIDE EDGE.
2. HORIZONTAL SEPARATION BETWEEN WATER MAINS AND STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM.
3. HORIZONTAL SEPARATION BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10FT., BUT 3 FT. MINIMUM.

GENERAL PROJECT DESIGN NOTES

- 1. ALL WORK SHALL CONFORM TO FLORIDA BUILDING CODE (2014), FLORIDA FIRE PREVENTION CODE (2014), IFPA 101 (2009), AND ALL OTHER APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
2. ALL WORK WILL CONFORM TO THE STANDARDS AND SPECIFICATIONS PUBLISHED FOR THIS PROJECT: IN ADDITION TO THOSE PUBLISHED BY RECOGNIZED PROFESSIONAL AND INDUSTRY ORGANIZATION, AS WELL AS THE MANUFACTURER.
3. THESE DRAWINGS WILL BE UTILIZED IN CONJUNCTION WITH THE PROJECT'S TECHNICAL SPECIFICATIONS AND SPECIFICATIONS PROVIDED BY RECOGNIZED PROFESSIONAL AND INDUSTRY ORGANIZATIONS, AS WELL AS THE MANUFACTURER.

REGULATORY AND ECONOMIC RESOURCES RER NOTES ON WATER-SEWER INSTALLATION

- 1. A PREFERRED HORIZONTAL DISTANCE (OUTSIDE TO OUTSIDE) OF 10 FEET OR MINIMUM OF 6 FEET SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER MAINS. THE HORIZONTAL SEPARATION CAN BE REDUCED TO A MINIMUM OF 3 FEET ONLY FOR GRAVITY SEWER PIPES WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
2. A VERTICAL DISTANCE OF AT LEAST 12 INCHES (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS WITH SEWER PIPES PREFERABLY CROSSING UNDER WATER MAINS.
3. THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.

GENERAL PROJECT DESIGN NOTES CONTINUED

- 8. GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE PVC-900 OR DUCTILE IRON PIPE THE MAXIMUM ALLOWABLE EXFILTRATION, INFILTRATION, OR LEAKAGE FOR GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE FIFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR RESIDENTIAL LAND USE AND TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR NON-RESIDENTIAL LAND USE WITH NOT ALLOWANCES FOR MANHOLES OR LATERALS.
9. FORCE MAIN SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE EITHER DUCTILE IRON OR REINFORCED CONCRETE PRESSURE SEWER PIPES.

MIAMI-DADE WATER AND SEWER DEPARTMENT DESIGN AND CONSTRUCTION STANDARD DETAILS

Table with 3 columns: TITLE, DETAIL No., SHEET(S). Lists standard details for water and sewer construction, including tapping valves, thrust restraints, and pipe identification.

THESE DETAILS FORM AN INTERGRAL PART OF THE CONSTRUCTION DOCUMENTS

THESE DETAILS ARE AVAILABLE AT www.miamidade.gov/wasd/design-construction-standard.asp



MIAMI DADE WASD PUMP STATION NO 2
CD 2.22 PUMP STATION 2
REHABILITATION UPGRADES
GENERAL CIVIL NOTES

DRAWING ISSUED table with columns: REVISION No., DESCRIPTION, DATE, BY.

APPROVED

PROJ No.: 10507783
DESIGNED: BWL CHECKED: IA
DRAWN: BA FINAL CHECK: IA

Brian LaMay, P.E.
State of Florida-License No. 60142
Date: _____

ER No: S049346 PCTS No: 13162

FILE NAME: T0342_GC-1

DATE: APRIL 2016 SCALE: NO SCALE

SHEET GC-1

Attachment B
Pace Analytical Testing Results

May 12, 2017

Jose R. Tovar
Miami Dade Water & Sewer
6800 SW 87th Avenue
Miami, FL 33173

RE: Project: Testing
Pace Project No.: 35311473

Dear Jose Tovar:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Rossy Guima
rossy.guima@pacelabs.com
954-582-4300
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Testing
Pace Project No.: 35311473

Ormond Beach Certification IDs

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Testing
Pace Project No.: 35311473

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35311473001	Open Excavation	Water	05/11/17 13:45	05/11/17 14:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Testing
Pace Project No.: 35311473

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35311473001	Open Excavation	FL-PRO	JGW	3	PASI-O
		EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK1	10	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Testing
Pace Project No.: 35311473

Sample: Open Excavation **Lab ID: 35311473001** Collected: 05/11/17 13:45 Received: 05/11/17 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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FL-PRO Water, Low Volume

Analytical Method: FL-PRO Preparation Method: EPA 3510

Petroleum Range Organics	12.8	mg/L	1.0	0.80	1	05/12/17 04:29	05/12/17 10:43		
Surrogates									
o-Terphenyl (S)	79	%	82-142		1	05/12/17 04:29	05/12/17 10:43	84-15-1	J(S0)
N-Pentatriacontane (S)	63	%	42-159		1	05/12/17 04:29	05/12/17 10:43	630-07-09	

8270 MSSV PAHLV by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510

Acenaphthene	0.025 U	ug/L	0.50	0.025	1	05/12/17 03:00	05/12/17 09:52	83-32-9	
Acenaphthylene	0.025 U	ug/L	0.50	0.025	1	05/12/17 03:00	05/12/17 09:52	208-96-8	
Anthracene	0.24 I	ug/L	0.50	0.025	1	05/12/17 03:00	05/12/17 09:52	120-12-7	
Benzo(a)anthracene	1.3	ug/L	0.10	0.025	1	05/12/17 03:00	05/12/17 09:52	56-55-3	
Benzo(a)pyrene	1.8	ug/L	0.10	0.025	1	05/12/17 03:00	05/12/17 09:52	50-32-8	
Benzo(b)fluoranthene	2.4	ug/L	0.10	0.025	1	05/12/17 03:00	05/12/17 09:52	205-99-2	
Benzo(g,h,i)perylene	1.4	ug/L	0.50	0.028	1	05/12/17 03:00	05/12/17 09:52	191-24-2	
Benzo(k)fluoranthene	0.60	ug/L	0.50	0.025	1	05/12/17 03:00	05/12/17 09:52	207-08-9	
Chrysene	0.96	ug/L	0.50	0.025	1	05/12/17 03:00	05/12/17 09:52	218-01-9	
Dibenz(a,h)anthracene	0.034 U	ug/L	0.10	0.034	1	05/12/17 03:00	05/12/17 09:52	53-70-3	
Fluoranthene	1.3	ug/L	0.50	0.025	1	05/12/17 03:00	05/12/17 09:52	206-44-0	
Fluorene	0.025 U	ug/L	0.50	0.025	1	05/12/17 03:00	05/12/17 09:52	86-73-7	
Indeno(1,2,3-cd)pyrene	0.97	ug/L	0.10	0.029	1	05/12/17 03:00	05/12/17 09:52	193-39-5	
1-Methylnaphthalene	1.0 U	ug/L	2.0	1.0	1	05/12/17 03:00	05/12/17 09:52	90-12-0	
2-Methylnaphthalene	1.0 U	ug/L	2.0	1.0	1	05/12/17 03:00	05/12/17 09:52	91-57-6	
Naphthalene	1.0 U	ug/L	2.0	1.0	1	05/12/17 03:00	05/12/17 09:52	91-20-3	
Phenanthrene	0.25 I	ug/L	0.50	0.050	1	05/12/17 03:00	05/12/17 09:52	85-01-8	
Pyrene	2.0	ug/L	0.50	0.025	1	05/12/17 03:00	05/12/17 09:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	33-101		1	05/12/17 03:00	05/12/17 09:52	321-60-8	
Terphenyl-d14 (S)	65	%	38-115		1	05/12/17 03:00	05/12/17 09:52	1718-51-0	

8260 MSV

Analytical Method: EPA 8260

Benzene	0.10 U	ug/L	1.0	0.10	1		05/12/17 07:33	71-43-2	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/12/17 07:33	100-41-4	
Methyl-tert-butyl ether	0.50 U	ug/L	1.0	0.50	1		05/12/17 07:33	1634-04-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/12/17 07:33	108-88-3	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		05/12/17 07:33	1330-20-7	
m&p-Xylene	1.0 U	ug/L	2.0	1.0	1		05/12/17 07:33	179601-23-1	
o-Xylene	0.50 U	ug/L	1.0	0.50	1		05/12/17 07:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	89-111		1		05/12/17 07:33	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-135		1		05/12/17 07:33	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		05/12/17 07:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Testing
Pace Project No.: 35311473

QC Batch: 368100 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35311473001

METHOD BLANK: 1987225 Matrix: Water
Associated Lab Samples: 35311473001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.10 U	1.0	0.10	05/12/17 00:01	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	05/12/17 00:01	
m&p-Xylene	ug/L	1.0 U	2.0	1.0	05/12/17 00:01	
Methyl-tert-butyl ether	ug/L	0.50 U	1.0	0.50	05/12/17 00:01	
o-Xylene	ug/L	0.50 U	1.0	0.50	05/12/17 00:01	
Toluene	ug/L	0.50 U	1.0	0.50	05/12/17 00:01	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	05/12/17 00:01	
1,2-Dichloroethane-d4 (S)	%	101	75-135		05/12/17 00:01	
4-Bromofluorobenzene (S)	%	96	89-111		05/12/17 00:01	
Toluene-d8 (S)	%	99	89-112		05/12/17 00:01	

LABORATORY CONTROL SAMPLE: 1987226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.7	93	70-130	
Ethylbenzene	ug/L	20	19.3	96	70-130	
m&p-Xylene	ug/L	40	38.5	96	70-130	
Methyl-tert-butyl ether	ug/L	20	20.0	100	64-133	
o-Xylene	ug/L	20	19.0	95	70-130	
Toluene	ug/L	20	18.6	93	70-130	
Xylene (Total)	ug/L	60	57.4	96	70-130	
1,2-Dichloroethane-d4 (S)	%			103	75-135	
4-Bromofluorobenzene (S)	%			99	89-111	
Toluene-d8 (S)	%			101	89-112	

MATRIX SPIKE SAMPLE: 1987777

Parameter	Units	35311198005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	3.5	20	22.4	94	70-130	
Ethylbenzene	ug/L	0.98 I	20	20.0	95	70-130	
m&p-Xylene	ug/L	4.9	40	41.9	92	70-130	
Methyl-tert-butyl ether	ug/L	0.50 U	20	17.6	88	64-133	
o-Xylene	ug/L	0.50 U	20	18.2	89	70-130	
Toluene	ug/L	0.50 U	20	18.3	91	70-130	
Xylene (Total)	ug/L	4.9	60	60.1	92	70-130	
1,2-Dichloroethane-d4 (S)	%				103	75-135	
4-Bromofluorobenzene (S)	%				97	89-111	
Toluene-d8 (S)	%				99	89-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Testing
Pace Project No.: 35311473

SAMPLE DUPLICATE: 1987776

Parameter	Units	35311198004 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.10 U	0.10 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
m&p-Xylene	ug/L	1.0 U	1.0 U		40	
Methyl-tert-butyl ether	ug/L	0.50 U	0.50 U		40	
o-Xylene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	100	100	1	40	
4-Bromofluorobenzene (S)	%	97	99	3	40	
Toluene-d8 (S)	%	101	101	0	40	

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QUALITY CONTROL DATA

Project: Testing
Pace Project No.: 35311473

QC Batch: 368079 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35311473001

METHOD BLANK: 1987046 Matrix: Water
Associated Lab Samples: 35311473001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	1.0 U	2.0	1.0	05/12/17 07:47	
2-Methylnaphthalene	ug/L	1.0 U	2.0	1.0	05/12/17 07:47	
Acenaphthene	ug/L	0.025 U	0.50	0.025	05/12/17 07:47	
Acenaphthylene	ug/L	0.025 U	0.50	0.025	05/12/17 07:47	
Anthracene	ug/L	0.025 U	0.50	0.025	05/12/17 07:47	
Benzo(a)anthracene	ug/L	0.025 U	0.10	0.025	05/12/17 07:47	
Benzo(a)pyrene	ug/L	0.025 U	0.10	0.025	05/12/17 07:47	
Benzo(b)fluoranthene	ug/L	0.025 U	0.10	0.025	05/12/17 07:47	
Benzo(g,h,i)perylene	ug/L	0.028 U	0.50	0.028	05/12/17 07:47	
Benzo(k)fluoranthene	ug/L	0.025 U	0.50	0.025	05/12/17 07:47	
Chrysene	ug/L	0.025 U	0.50	0.025	05/12/17 07:47	
Dibenz(a,h)anthracene	ug/L	0.034 U	0.10	0.034	05/12/17 07:47	
Fluoranthene	ug/L	0.025 U	0.50	0.025	05/12/17 07:47	
Fluorene	ug/L	0.025 U	0.50	0.025	05/12/17 07:47	
Indeno(1,2,3-cd)pyrene	ug/L	0.029 U	0.10	0.029	05/12/17 07:47	
Naphthalene	ug/L	1.0 U	2.0	1.0	05/12/17 07:47	
Phenanthrene	ug/L	0.050 U	0.50	0.050	05/12/17 07:47	
Pyrene	ug/L	0.025 U	0.50	0.025	05/12/17 07:47	
2-Fluorobiphenyl (S)	%	59	33-101		05/12/17 07:47	
Terphenyl-d14 (S)	%	66	38-115		05/12/17 07:47	

LABORATORY CONTROL SAMPLE: 1987047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.3	66	33-118	
2-Methylnaphthalene	ug/L	5	3.0	59	34-104	
Acenaphthene	ug/L	5	3.8	76	38-109	
Acenaphthylene	ug/L	5	2.6	51	31-115	
Anthracene	ug/L	5	2.5	50	38-111	
Benzo(a)anthracene	ug/L	5	3.0	59	36-110	
Benzo(a)pyrene	ug/L	5	2.1	42	27-107	
Benzo(b)fluoranthene	ug/L	5	3.1	63	32-119	
Benzo(g,h,i)perylene	ug/L	5	1.9	37	10-109	
Benzo(k)fluoranthene	ug/L	5	3.0	60	28-118	
Chrysene	ug/L	5	3.8	75	33-130	
Dibenz(a,h)anthracene	ug/L	5	1.6	31	10-104	
Fluoranthene	ug/L	5	2.8	57	45-115	
Fluorene	ug/L	5	3.7	75	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	5	1.8	35	10-104	
Naphthalene	ug/L	5	2.9	59	38-100	

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QUALITY CONTROL DATA

Project: Testing
Pace Project No.: 35311473

LABORATORY CONTROL SAMPLE: 1987047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	3.4	68	41-106	
Pyrene	ug/L	5	2.9	59	45-115	
2-Fluorobiphenyl (S)	%			66	33-101	
Terphenyl-d14 (S)	%			82	38-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987266 1987267

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35311303001 Result	Spike Conc.	Spike Conc.	MS Result						
1-Methylnaphthalene	ug/L	1.1 I	5	5	4.1	3.8	61	55	33-118	7	40
2-Methylnaphthalene	ug/L	1.0 U	5	5	3.9	3.6	60	54	34-104	8	40
Acenaphthene	ug/L	0.22 I	5	5	3.7	3.6	70	67	38-109	5	40
Acenaphthylene	ug/L	0.025 U	5	5	2.7	2.6	55	52	31-115	5	40
Anthracene	ug/L	0.025 U	5	5	2.6	2.6	53	52	38-111	1	40
Benzo(a)anthracene	ug/L	0.025 U	5	5	3.0	2.8	60	56	36-110	6	40
Benzo(a)pyrene	ug/L	0.025 U	5	5	1.8	1.7	36	35	27-107	5	40
Benzo(b)fluoranthene	ug/L	0.025 U	5	5	2.6	2.5	53	49	32-119	7	40
Benzo(g,h,i)perylene	ug/L	0.028 U	5	5	1.8	1.6	36	32	10-109	10	40
Benzo(k)fluoranthene	ug/L	0.025 U	5	5	2.1	2.3	42	45	28-118	7	40
Chrysene	ug/L	0.025 U	5	5	3.0	3.0	60	60	33-130	0	40
Dibenz(a,h)anthracene	ug/L	0.034 U	5	5	1.1	0.93	22	19	10-104	18	40
Fluoranthene	ug/L	0.028 I	5	5	2.9	2.6	57	52	45-115	8	40
Fluorene	ug/L	0.025 U	5	5	3.5	3.4	71	68	41-114	3	40
Indeno(1,2,3-cd)pyrene	ug/L	0.029 U	5	5	1.4	1.2	28	24	10-104	16	40
Naphthalene	ug/L	5.2	5	5	8.0	7.3	56	41	38-100	10	40
Phenanthrene	ug/L	0.050 U	5	5	3.2	3.1	63	62	41-106	2	40
Pyrene	ug/L	0.025 U	5	5	3.0	2.6	59	53	45-115	11	40
2-Fluorobiphenyl (S)	%						61	58	33-101		
Terphenyl-d14 (S)	%						58	50	38-115		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Testing
Pace Project No.: 35311473

QC Batch: 368014 Analysis Method: FL-PRO
QC Batch Method: EPA 3510 Analysis Description: FL-PRO Water Low Volume
Associated Lab Samples: 35311473001

METHOD BLANK: 1986156 Matrix: Water
Associated Lab Samples: 35311473001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.80 U	1.0	0.80	05/12/17 10:37	
N-Pentatriacontane (S)	%	98	42-159		05/12/17 10:37	
o-Terphenyl (S)	%	110	82-142		05/12/17 10:37	

LABORATORY CONTROL SAMPLE: 1986157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	5	3.1	62	55-118	
N-Pentatriacontane (S)	%			53	42-159	
o-Terphenyl (S)	%			77	82-142 J(S0)	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987271 1987272

Parameter	Units	35311303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/L				3.6	3.6				2	20	
N-Pentatriacontane (S)	%						97	68	42-159			
o-Terphenyl (S)	%						80	88	82-142			J(S0)

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Testing
Pace Project No.: 35311473

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Testing
Pace Project No.: 35311473

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35311473001	Open Excavation	EPA 3510	368014	FL-PRO	368157
35311473001	Open Excavation	EPA 3510	368079	EPA 8270 by SIM	368127
35311473001	Open Excavation	EPA 8260	368100		

REPORT OF LABORATORY ANALYSIS

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WO#: 35311473



RECORD

Date: _____

Page 1 of 1

Container Type Codes

AV Amber Vial	ES Encore Sampler
CV Clear Vial	PPV Prepreserved vial
P Plastic	PL C Plastic container
AL Amber Litr	PL J Plastic Jar
CL Clear Litr	Z Ziploc bag
AP Amber Plastic	TB Tedlar bag
AG Amber Glass	WP Whirl pak
SJ Soil Jar	G Gallon Jug
Other _____	TC Terra-core
PPV _____	Prepreserved vial

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other _____
40ml 500ml 250ml 125 ml
Example: 4ozP = 4oz Plastic, 8ozSJ = 8oz Soil Jar

Page 13 of 14

Company Name: Dade County WATS D PO# _____
 Address: 6800 SW 87 Ave
 City: _____ State: _____ Zip: _____
 Attn: Jose Torar Fax# _____
 email: Torj@miamidelaga.gov Phone: 786-402-7603

LAB ANALYSIS

Project Name _____ Proj # _____
 Sampler Signature _____
 Circle One Event: Daily Weekly Monthly
 Quarterly Semi-Annual Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	Parameters	# of Containers Size/Type																
									1	2	3	4	5	6	7	8	9	10	11	12					
1	BTEX/MTBE	5-11-17	1:45				5	820 BTEX/MTBE	3	4oz	1	16oz	1	250ml											
2	Fluoro open extraction						+	FL Pro	1	100ml															
3	PAH						+	PAH 80703	1	100ml															
4																									
5																									
6																									
7																									
8																									
9																									
10																									

EXAMPLE Diss. Lead 6010

Matrix Codes

SD Solid Waste	OL Oil
GW Ground Water	SL Sludge
EFF Effluent	SO Soil Sediment
AFW Analyte Free H2O	AQ Aqueous
WW Waste Water	NA Nonaqueous
DW Drinking Water	PE Petroleum
SW Surface Water	O Other
ML Misc. Liquid	(Please specify)

Preservative Type Codes

A. None	E. HCL	I. Ice
B. HNO3	F. MeOH	J. MCAA
C. H2SO4	G. Na2S2O3	K. Zn Acetate
D. NaOH	H. NaHSO4	O. Other

REMARKS

24 hr
Rush

Circle T.A.T. REQUEST (Rush Fees Approved)		Short Hold	Circle QA/QC Report Level	EDD (Fees May Apply)	COC Condition	Required State Certification	Coolers #'s - Temp °C
Standard	RUSH	Y ___ N ___	1 2 3 4 CLP AFCEE QAPP Other	ADaPT SEDD ERPIMS TSV CSV Other	OK Incomplete	FL GA SC NC NJ PA LA TX IL	1 ___ 2 ___ 3 ___ 4 ___ 5 ___

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time	Lab Use Only	YES	NO	N/A
1	[Signature]		5/11/17	16:45	[Signature]	PAGE	5/11/17	16:45	Non-Conformance Found?			
2	[Signature]	PAGE	5/11/17		[Signature]	PAGE	5/11/17	16:00	Samples INTACT upon arrival?			
3	[Signature]	PAGE	5/11/17	18:35	[Signature]	PAGE	5/11/17	18:25	Received on Wet Ice?			
4	[Signature]				[Signature]				Proper Preservatives Indicated?			



Document Name
Sample Condition Upon Receipt Form
Document No

Document Revised
August 10, 2016
Issuing Authority
Pace Florida Quality Office

WO#: 35311473

Project Manager: **PM: RYG**
Client: **36-MDWS**
Due Date: **05/12/17**
Client Name: _____

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

Thermometer Used: T-315 Date: 5/11/17 Time: _____

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

Cooler #1 Temp. °C: <u>1.6</u> (Visual) <u>0.1</u> (Correction Factor) <u>1.5</u> (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #2 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #3 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #4 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #5 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #6 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
 Shipping Method: First Overnight Priority Overnight Standard Overnight Ground Other _____
 Billing: Recipient Sender Third Party Unknown

Tracking # _____

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

Packing Material: Bubble Wrap Bubble Bags None Other _____

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

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

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____ Date: _____