

February 21, 2019

Frances Moore
FDEP - Biology Program
Twin Towers Lab Complex A
2600 Blair Stone RD MS
Tallahassee, FL 32399

RE: Project: SMP-MIAMI-PERIMETER-RQ-2019-02
Pace Project No.: 35446460

Dear Frances Moore:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2019. 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.

The sample ID for 35446460002 was corrected and a revised report generated.

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

Sincerely,



Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: SMP-MIAMI-PERIMETER-RQ-2019-02

Pace Project No.: 35446460

South Florida Certification IDs

3610 Park Central Blvd N, Pompano Beach, FL 33064

Florida Certification #: E86240

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SAMPLE SUMMARY

Project: SMP-MIAMI-PERIMETER-RQ-2019-02

Pace Project No.: 35446460

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35446460001	G4SE0098	Water	02/06/19 11:55	02/06/19 14:30
35446460002	DUP-G4SE0098	Water	02/06/19 12:00	02/06/19 14:30
35446460003	G4SE0038	Water	02/06/19 13:40	02/06/19 14:30

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SAMPLE ANALYTE COUNT

Project: SMP-MIAMI-PERIMETER-RQ-2019-02

Pace Project No.: 35446460

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35446460001	G4SE0098	9223B/Quanti-Tray	RBF	1	PASI-SF
35446460002	DUP-G4SE0098	9223B/Quanti-Tray	RBF	1	PASI-SF
35446460003	G4SE0038	9223B/Quanti-Tray	RBF	1	PASI-SF

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ANALYTICAL RESULTS

Project: SMP-MIAMI-PERIMETER-RQ-2019-02

Pace Project No.: 35446460

Sample: G4SE0098		Lab ID: 35446460001		Collected: 02/06/19 11:55		Received: 02/06/19 14:30		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Colilert/Quanti-Tray MPN									
Analytical Method: 9223B/Quanti-Tray Preparation Method: 9223B/Quanti-Tray									
E.coli	63.0	MPN/100mL	10.0	10.0	10	02/06/19 16:21	02/07/19 12:52		

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ANALYTICAL RESULTS

Project: SMP-MIAMI-PERIMETER-RQ-2019-02

Pace Project No.: 35446460

Sample: DUP-G4SE0098		Lab ID: 35446460002		Collected: 02/06/19 12:00		Received: 02/06/19 14:30		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Colilert/Quanti-Tray MPN									
Analytical Method: 9223B/Quanti-Tray Preparation Method: 9223B/Quanti-Tray									
E.coli	41.0	MPN/100mL	10.0	10.0	10	02/06/19 16:21	02/07/19 12:52		

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ANALYTICAL RESULTS

Project: SMP-MIAMI-PERIMETER-RQ-2019-02

Pace Project No.: 35446460

Sample: G4SE0038		Lab ID: 35446460003		Collected: 02/06/19 13:40		Received: 02/06/19 14:30		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Colilert/Quanti-Tray MPN									
Analytical Method: 9223B/Quanti-Tray Preparation Method: 9223B/Quanti-Tray									
E.coli	520	MPN/100mL	10.0	10.0	10	02/06/19 16:21	02/07/19 12:52		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SMP-MIAMI-PERIMETER-RQ-2019-02

Pace Project No.: 35446460

QC Batch:	515146	Analysis Method:	9223B/Quanti-Tray
QC Batch Method:	9223B/Quanti-Tray	Analysis Description:	Colilert MPN
Associated Lab Samples:	35446460001, 35446460002, 35446460003		

METHOD BLANK: 2781091 Matrix: Water

Associated Lab Samples: 35446460001, 35446460002, 35446460003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
E.coli	MPN/100mL	1.0 U	1.0	1.0	02/07/19 12:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: SMP-MIAMI-PERIMETER-RQ-2019-02

Pace Project No.: 35446460

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.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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-SF Pace Analytical Services - South Florida

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SMP-MIAMI-PERIMETER-RQ-2019-02

Pace Project No.: 35446460

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35446460001	G4SE0098	9223B/Quanti-Tray	515146	9223B/Quanti-Tray	515148
35446460002	DUP-G4SE0098	9223B/Quanti-Tray	515146	9223B/Quanti-Tray	515148
35446460003	G4SE0038	9223B/Quanti-Tray	515146	9223B/Quanti-Tray	515148

REPORT OF LABORATORY ANALYSIS

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Pace Analytical® Miami-Perimeter www.pacelabs.com										WO#: 35446460 35446460										Container Type Codes										Page 11 of 12																																							
Company Name: <u>DEP Labs - Biology</u> PO# <u>B374AO</u>										LAB ANALYSIS										Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other _____ 40ml 500ml 250ml 125 ml Example: 4ozP = 4oz Plastic, 8ozSJ = 8oz Soil Jar																																																	
Address: <u>Twix Towers/LAB Complex A Rm. 216</u>										City: <u>Tallahassee</u> State: <u>FL</u> Zip: <u>32399</u>										Matrix Codes																																																	
Attn: _____ Fax# _____ email: <u>Avril.Wool-McGrath@floridadep.gov</u> Phone: _____ <u>2 - Kara.Sprague@floridadep.gov</u>										pH _____ Pres Codes _____										Preservative Type Codes																																																	
Project Name: <u>SMP - Miami Perimeter</u> Proj # <u>RQ-2019-02-04-66</u>										Parameters										EXAMPLE Diss. Lead 6010																																																	
Sampler Signature: <u>Jordan Skaggs</u> Circle One Event: ☒ Daily ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Semi-Annual ☐ Annual ☐ N/A										Sample ID Collect Date Collect Time Matrix Code* Field Filtered Integrity OK(Y/N) Total # of containers										# of Containers Size/Type																																																	
Sample # 1 <u>G45E0098</u> <u>02/06</u> <u>11:55</u> <u>SW</u> ☒ ☒ ☒ 1										☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐										1 16ozP																																																	
Sample # 2 <u>DUP G45E0098</u> <u>11</u> <u>12:00</u> <u>SW</u> ☒ ☒ ☒ 1										☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																											
Sample # 3 <u>G45E0038</u> <u>11</u> <u>13:40</u> <u>SW</u> ☒ ☒ ☒ 1										☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																											
Sample # 4										☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																											
Sample # 5										☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																											
Sample # 6										☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																											
Sample # 7										☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																											
Sample # 8										☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																											
Sample # 9										☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																											
Sample # 10										☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																											
Circle T.A.T. REQUEST (Rush Fees Approved) Standard RUSH Y N Today 1D 2D 3D 4D 5D										Short Hold Y N										Circle QA/QC Report Level 1 2 3 4 CLP AFCEE QAPP Other										EDD (Fees May Apply) ADaPT SEDD ERPIMS TSV CSV Other										COC Condition OK Incomplete										Required State Certification FL GA SC NC NJ PA LA TX IL										Coolers #'s - Temp °C <u>6.52</u> <u>3</u> <u>4</u> <u>5</u>									
Item Relinquished by Affiliation Date Time										Received by Affiliation Date Time										Lab Use Only YES NO N/A																																																	
1 <u>Jordan Skaggs</u> <u>DEP</u> <u>02/06/19</u> <u>14:30</u>										<u>Heugh</u> <u>PAGE</u> <u>2/6/19</u> <u>1430</u>										Non-Conformance Found? ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒																																																	
2																				Samples INTACT upon arrival? ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒																																																	
3																				Received on Wet Ice? ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒																																																	
4																				Proper Preservatives Indicated? ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒																																																	
																				Received within holding time? ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒																																																	
																				Custody seals intact? ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒																																																	
																				Volatiles rec'd without headspace? ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒																																																	
																				Proper Containers Used? ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒																																																	

	Document Name	Document Revised
	Sample Condition Upon Receipt Form	May 30, 2018
	Document No F-FL-C-007 rev. 13	Issuing Authority Pace Florida Quality Office

Sample Condition Upon Receipt (SCUR)

Project # **WO# : 35446460**
Project Manager: PM: JSB **Due Date:** 02/15/19
Client: CLIENT: DEPBUR
Date and Initials of person:
 Examining contents: JHH
 Label: _____
 Deliver: _____
 pH: N/A
 Thermometer Used: T-330 Date: 2/6/19 Time: 1430 Initials: JHH

State of Origin: Florida ☐ For WV projects, all containers verified to ≤6 °C
 Cooler #1 Temp. °C 5.5 (Visual) 0.0 (Correction Factor) 5.5 (Actual) ☒ Samples on ice, cooling process has begun
 Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ Samples on ice, cooling process has begun
 Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ Samples on ice, cooling process has begun
 Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ Samples on ice, cooling process has begun
 Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ Samples on ice, cooling process has begun
 Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ 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 ☐ International Priority
☐ Other _____
 Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☒ Unknown

Tracking # _____
 Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Ice: Wet Blue Dry None
 Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____
 Samples shorted to lab (If Yes, complete) Shorted Date: 2/6/19 Shorted Time: 1430 Qty: 3

Comments:

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

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

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____ Date: _____