

June 20, 2018

Allen Davis
City of Riviera Beach
600 West Blue Heron Blvd.
West Palm Beach, FL 33404

RE: Project: SPILL
Pace Project No.: 35397796

Dear Allen Davis:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2018. 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,



Terrence Anderson
terrence.anderson@pacelabs.com
954-582-4300
Project Manager

Enclosures

cc: David Danford, City of Riviera Beach Utility District
Troy Perry, City of Riviera Beach



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SPILL
Pace Project No.: 35397796

South Florida Certification IDs

3610 Park Central Blvd N, Pompano Beach, FL 33064

Florida Certification #: E86240

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SAMPLE SUMMARY

Project: SPILL
Pace Project No.: 35397796

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|----------------------|--------|----------------|----------------|
| 35397796001 | LIFT STATION #10 (1) | Water | 06/12/18 09:34 | 06/12/18 15:19 |
| 35397796002 | LIFT STATION #10 (2) | Water | 06/12/18 09:36 | 06/12/18 15:19 |
| 35397796003 | N HARBOR DR | Water | 06/12/18 09:50 | 06/12/18 15:19 |
| 35397796004 | S HARBOR DR | Water | 06/12/18 10:02 | 06/12/18 15:19 |

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SAMPLE ANALYTE COUNT

Project: SPILL
Pace Project No.: 35397796

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|----------------------|------------------------|----------|-------------------|------------|
| 35397796001 | LIFT STATION #10 (1) | Enterolert/Quanti-Tray | STH | 1 | PASI-SF |
| 35397796002 | LIFT STATION #10 (2) | Enterolert/Quanti-Tray | STH | 1 | PASI-SF |
| 35397796003 | N HARBOR DR | Enterolert/Quanti-Tray | STH | 1 | PASI-SF |
| 35397796004 | S HARBOR DR | Enterolert/Quanti-Tray | STH | 1 | PASI-SF |

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ANALYTICAL RESULTS

Project: SPILL
Pace Project No.: 35397796

| Sample: LIFT STATION #10 (1) | | Lab ID: 35397796001 | Collected: 06/12/18 09:34 | Received: 06/12/18 15:19 | Matrix: Water | | | | |
|-------------------------------------|---------|----------------------------|---------------------------|--------------------------|---------------|----------|----------|---------|------|
| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | | |
|-------------------------------|--|-----------|------|------|----|----------------|----------------|--|---|
| Enterolert/Quanti-Tray | Analytical Method: Enterolert/Quanti-Tray Preparation Method: Enterolert/Quanti-Tray | | | | | | | | |
| Enterococci | 10.0 U | MPN/100mL | 10.0 | 10.0 | 10 | 06/12/18 20:13 | 06/13/18 20:15 | | Q |

| Sample: LIFT STATION #10 (2) | | Lab ID: 35397796002 | Collected: 06/12/18 09:36 | Received: 06/12/18 15:19 | Matrix: Water | | | | |
|-------------------------------------|---------|----------------------------|---------------------------|--------------------------|---------------|----------|----------|---------|------|
| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | | |
|-------------------------------|--|-----------|------|------|----|----------------|----------------|--|---|
| Enterolert/Quanti-Tray | Analytical Method: Enterolert/Quanti-Tray Preparation Method: Enterolert/Quanti-Tray | | | | | | | | |
| Enterococci | 10.0 | MPN/100mL | 10.0 | 10.0 | 10 | 06/12/18 20:13 | 06/13/18 20:15 | | Q |

| Sample: N HARBOR DR | | Lab ID: 35397796003 | Collected: 06/12/18 09:50 | Received: 06/12/18 15:19 | Matrix: Water | | | | |
|----------------------------|---------|----------------------------|---------------------------|--------------------------|---------------|----------|----------|---------|------|
| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | | |
|-------------------------------|--|-----------|------|------|----|----------------|----------------|--|---|
| Enterolert/Quanti-Tray | Analytical Method: Enterolert/Quanti-Tray Preparation Method: Enterolert/Quanti-Tray | | | | | | | | |
| Enterococci | 10.0 U | MPN/100mL | 10.0 | 10.0 | 10 | 06/12/18 20:13 | 06/13/18 20:15 | | Q |

| Sample: S HARBOR DR | | Lab ID: 35397796004 | Collected: 06/12/18 10:02 | Received: 06/12/18 15:19 | Matrix: Water | | | | |
|----------------------------|---------|----------------------------|---------------------------|--------------------------|---------------|----------|----------|---------|------|
| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | | |
|-------------------------------|--|-----------|------|------|----|----------------|----------------|--|---|
| Enterolert/Quanti-Tray | Analytical Method: Enterolert/Quanti-Tray Preparation Method: Enterolert/Quanti-Tray | | | | | | | | |
| Enterococci | 20.0 | MPN/100mL | 10.0 | 10.0 | 10 | 06/12/18 20:13 | 06/13/18 20:15 | | Q |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SPILL
Pace Project No.: 35397796

| | | | |
|-------------------------|--|-----------------------|------------------------|
| QC Batch: | 455976 | Analysis Method: | Enterolert/Quanti-Tray |
| QC Batch Method: | Enterolert/Quanti-Tray | Analysis Description: | Enterolert MPN |
| Associated Lab Samples: | 35397796001, 35397796002, 35397796003, 35397796004 | | |

METHOD BLANK: 2469062 Matrix: Water
Associated Lab Samples: 35397796001, 35397796002, 35397796003, 35397796004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-------------|-----------|--------------|-----------------|-----|----------------|------------|
| Enterococci | MPN/100mL | 1.0 U | 1.0 | 1.0 | 06/13/18 19:29 | |

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: SPILL
Pace Project No.: 35397796

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.

Q Sample held beyond the accepted holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SPILL
Pace Project No.: 35397796

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------------|------------------------|----------|------------------------|------------------|
| 35397796001 | LIFT STATION #10 (1) | Enterolert/Quanti-Tray | 455976 | Enterolert/Quanti-Tray | 455977 |
| 35397796002 | LIFT STATION #10 (2) | Enterolert/Quanti-Tray | 455976 | Enterolert/Quanti-Tray | 455977 |
| 35397796003 | N HARBOR DR | Enterolert/Quanti-Tray | 455976 | Enterolert/Quanti-Tray | 455977 |
| 35397796004 | S HARBOR DR | Enterolert/Quanti-Tray | 455976 | Enterolert/Quanti-Tray | 455977 |

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MO#: 35397796



35397796

cal Request Document
All relevant fields must be completed accurately.

Section A Required Client Information: Section B Required Project Information: Report To: David Dandford

City of River Beach, 600 W. Blue Heron Blvd, River Beach, IL 33404, Pace Analytical, 461 723 9973, Project Name: Spill, Project #, Requested Date Date, Attention: Company Name, Address, Pace Quote, Pace Project Manager: terrance.randerson@paceanalytical.com, Pace Profile #: 9279, Regulatory Agency, State / Location

Table with columns: ITEM #, SAMPLE ID, MATRIX, CODE, MATRIX CODE, SAMPLE TYPE, COLLECTED (START/END DATE/TIME), SAMPLE TEMP AT COLLECTION, # OF CONTAINERS, Preservatives (H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other), Analyses Test (ENTEROCOCCUS), Requested Analysis Filtered (Y/N), Residual Chlorine (Y/N), ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLER NAME AND SIGNATURE, PRINT Name of SAMPLER, SIGNATURE OF SAMPLER, DATE Signed, TEMP °C, Received on Ice (Y/N), Custody Sealed Cooler (Y/N), Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE: M. Dalberiste PACE, 6/12/18 1519, Niche Dalberiste, DATE Signed: 6/12/18



Document Name:
Sample Condition Upon Receipt Form
Document No:

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

NO#: 35397796

PM: ALF Due Date: 06/21/18
CLIENT: 36--RIVBCH

CUR)

Project #

Project Manager:

Client:

Date and Initials of person:
Examining contents: 06/12/18

Label: _____
Deliver: _____
pH: _____

Thermometer Used: T-324 Date: 06/12/18 Time: 1545 Initials: [Signature]

State of Origin: FL For WV projects, all containers verified to $\leq 6^\circ\text{C}$

Cooler #1 Temp. °C 3.1 (Visual) 10.1 (Correction Factor) 3.2 (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: _____ Shorted Time: _____ Qty: _____

Comments:

| | | |
|---|--|--|
| Chain of Custody Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Chain of Custody Filled Out | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Relinquished Signature & Sampler Name COC | <input 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| All containers needing acid/base preservation have been checked. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: Exceptions: VOA, Coliform, TOC, O&G, Carbamates | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Headspace in VOA Vials? (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

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

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____