

January 08, 2020

Bobby Purvis
Daphne Utilities Wastewater Dept.
29280 N. Main St
Daphne, AL 36526

RE: Project: Bay Sampling
Pace Project No.: 20136828

Dear Bobby Purvis:

Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2020.
The results relate only to the samples included in this report.

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

Sincerely,



Mary Kathryn Brenner
marykathryn.brenner@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Ashley Campbell, City of Daphne
Johnny Grimes, Daphne Utilities

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Bay Sampling
Pace Project No.: 20136828

Pace Analytical Services Mobile

4320 Midmost Drive, Mobile, AL 36609
Alabama Certification #: 40810

Florida Certification #: E87977

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SAMPLE SUMMARY

Project: Bay Sampling

Pace Project No.: 20136828

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|------------------------|--------|----------------|----------------|
| 20136828001 | Bayfront Park | Water | 01/06/20 08:26 | 01/06/20 09:20 |
| 20136828002 | Lake Forest Yacht Club | Water | 01/06/20 08:15 | 01/06/20 09:20 |
| 20136828003 | Stedman's Landing | Water | 01/06/20 08:40 | 01/06/20 09:20 |

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SAMPLE ANALYTE COUNT

Project: Bay Sampling

Pace Project No.: 20136828

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|------------------------|------------------------|----------|-------------------|
| 20136828001 | Bayfront Park | Enterolert/Quanti-Tray | PP1 | 1 |
| 20136828002 | Lake Forest Yacht Club | Enterolert/Quanti-Tray | PP1 | 1 |
| 20136828003 | Stedman's Landing | Enterolert/Quanti-Tray | PP1 | 1 |

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ANALYTICAL RESULTS

Project: Bay Sampling

Pace Project No.: 20136828

| Sample: Bayfront Park | | Lab ID: 20136828001 | Collected: 01/06/20 08:26 | Received: 01/06/20 09:20 | Matrix: Water | | | |
|--------------------------------------------------------------------------------------|-------------|----------------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| MOB Enterolert/Quanti-Tray | | | | | | | | |
| Analytical Method: Enterolert/Quanti-Tray Preparation Method: Enterolert/Quanti-Tray | | | | | | | | |
| Enterococci | 52.0 | MPN/100mL | 10.0 | 10 | 01/06/20 12:00 | 01/07/20 12:00 | | N2 |

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ANALYTICAL RESULTS

Project: Bay Sampling

Pace Project No.: 20136828

| Sample: Lake Forest Yacht Club | | Lab ID: 20136828002 | Collected: 01/06/20 08:15 | Received: 01/06/20 09:20 | Matrix: Water | | | |
|--------------------------------------------------------------------------------------|-------------|----------------------------|---------------------------|--------------------------|----------------|----------------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| MOB Enterolert/Quanti-Tray | | | | | | | | |
| Analytical Method: Enterolert/Quanti-Tray Preparation Method: Enterolert/Quanti-Tray | | | | | | | | |
| Enterococci | 20.0 | MPN/100mL | 10.0 | 10 | 01/06/20 12:00 | 01/07/20 12:00 | | N2 |

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ANALYTICAL RESULTS

Project: Bay Sampling

Pace Project No.: 20136828

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------------------------------------------------------------------|------------|-----------|--------------|----|----------------|----------------|---------|------|
| Sample: Stedman's Landing | | | | | | | | |
| Lab ID: 20136828003 | | | | | | | | |
| Collected: 01/06/20 08:40 Received: 01/06/20 09:20 Matrix: Water | | | | | | | | |
| MOB Enterolert/Quanti-Tray | | | | | | | | |
| Analytical Method: Enterolert/Quanti-Tray Preparation Method: Enterolert/Quanti-Tray | | | | | | | | |
| Enterococci | 148 | MPN/100mL | 10.0 | 10 | 01/06/20 12:00 | 01/07/20 12:00 | | N2 |

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QUALITY CONTROL DATA

Project: Bay Sampling

Pace Project No.: 20136828

QC Batch: 170714

Analysis Method: Enterolert/Quanti-Tray

QC Batch Method: Enterolert/Quanti-Tray

Analysis Description: MOB Enterolert/Quanti-Tray

Associated Lab Samples: 20136828001, 20136828002, 20136828003

METHOD BLANK: 774196

Matrix: Water

Associated Lab Samples: 20136828001, 20136828002, 20136828003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-------------|-----------|--------------|-----------------|----------------|------------|
| Enterococci | MPN/100mL | ND | 1.0 | 01/07/20 12:00 | N2 |

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: Bay Sampling

Pace Project No.: 20136828

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bay Sampling

Pace Project No.: 20136828

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------------------|------------------------|----------|------------------------|------------------|
| 20136828001 | Bayfront Park | Enterolert/Quanti-Tray | 170714 | Enterolert/Quanti-Tray | 170722 |
| 20136828002 | Lake Forest Yacht Club | Enterolert/Quanti-Tray | 170714 | Enterolert/Quanti-Tray | 170722 |
| 20136828003 | Stedman's Landing | Enterolert/Quanti-Tray | 170714 | Enterolert/Quanti-Tray | 170722 |

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CHAIN-OF-CUSTODY / Analytical Request D
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mu

MO# : 20136828



20136828

Section A

Required Client Information:
 Company: Daphne Utilities Wastewater Dept.
 Address: P.O. Box 2550
 Daphne, AL 36528
 Email: sharon@daphneutilities.com
 Phone: (251)380-8961
 Requested Due Date:

Section B

Required Project Information:
 Report To: Sharon Surra
 Copy To:
 Purchase Order #:
 Project Name: Bay Sampling
 Project #:

Section C

Invoice Information:
 Attention: Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: marykathryn.brenner@pacelabs.com
 Pace Profile #: 9456

Regulatory Agency

State / Location

AL

| ITEM # | SAMPLE ID (A-Z, 0-9 /, -) Sample IDs must be unique | MATRIX | CODE | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | | |
|--------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------|------|---------------------------|-----------------|---------------|------|-----|------|---------|----------|-------|-----------------------------------|-------------------------|---------------|-----|
| | | | | START | END | | | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | | | Analyses Test | Y/N |
| | | Drinking Water Water Waste Water Product Soil/Solid Oil W/ve Air Other Tissue | DW WT WW P SL OL WP AR OT TS | DATE | TIME | DATE | TIME | Unpreserved | | | | | | | | | | |
| 1 | Bayfront Park | | WT | 1/2/20 | 0826 | | | | | | | | | | | | | |
| 2 | Lake Forest Yacht Club | | WT | 1/2/20 | 0815 | | | | | | | | | | | | | |
| 3 | Stedman's Landing | | WT | 1/2/20 | 0840 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |

REMOVED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

Branley Skippier-Darman

1.6.20

0920

Skippier-Darman

1/6/20

920

Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

Branley Skippier-Darman

DATE Signed: 1.6.20

TEMP in C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)



Sample Condition Upon Receipt

4320 Midmost Dr. Mobile, AL
36609

WO#: 20136828

PM: MKB Due Date: 01/15/20
CLIENT: MO-Daphne

Project #: _____

Courier: Pace Client FedEx UPS Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC] Custody Seals intact: Yes No

Thermometer Used: Therm Fisher IR 001
 Other: _____

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: MAS 1/16/2020

Temp must be measured from temperature blank when present Comments:

| | | | |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Blank Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 1 | |
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2 | |
| Chain of Custody Complete: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3 | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4 | |
| Sampler Name on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5 | |
| Short Hold Time Analyses (<72 hr): | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6 | |
| Rush Turn Around Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7 | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8 | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9 | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10 | |
| Filtered vol. Rec. for Diss. tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11 | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12 | |
| All containers received within manufacturer's precautionary and/or expiration dates: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13 | |
| All containers needing chemical preservation have been checked (except VOA, micro, & O&G): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14 | |
| All containers preservation checked found to be in compliance with EPA recommendation: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15 | If No, was preservative added? <input type="checkbox"/> Yes <input type="checkbox"/> No If added record lot no.: HNO3 _____ H2SO4 _____ |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16 | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 17 | |

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____
