

April 03, 2019

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

RE: Project: Bay Sampling
Pace Project No.: 2099989

Dear Bobby Purvis:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 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.

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.: 2099989

Mobile Certification IDs

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

Florida Certification #: E87977

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SAMPLE SUMMARY

Project: Bay Sampling

Pace Project No.: 2099989

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2099989001	Bayfront Park	Water	04/01/19 12:12	04/01/19 13:12
2099989002	Lake Forest Yacht Club	Water	04/01/19 11:59	04/01/19 13:12
2099989003	Stedman's Landing	Water	04/01/19 12:33	04/01/19 13:12

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SAMPLE ANALYTE COUNT

Project: Bay Sampling

Pace Project No.: 2099989

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2099989001	Bayfront Park	Enterolert/Quanti-Tray	CMR	1
2099989002	Lake Forest Yacht Club	Enterolert/Quanti-Tray	CMR	1
2099989003	Stedman's Landing	Enterolert/Quanti-Tray	CMR	1

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ANALYTICAL RESULTS

Project: Bay Sampling

Pace Project No.: 2099989

Sample: Bayfront Park	Lab ID: 2099989001	Collected: 04/01/19 12:12	Received: 04/01/19 13:12	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	ND	MPN/100mL	10.0	10	04/01/19 13:58	04/02/19 14:00		

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ANALYTICAL RESULTS

Project: Bay Sampling

Pace Project No.: 2099989

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: Lake Forest Yacht Club Lab ID: 2099989002 Collected: 04/01/19 11:59 Received: 04/01/19 13:12 Matrix: Water								
MOB Enterolert/Quanti-Tray Analytical Method: Enterolert/Quanti-Tray Preparation Method: Enterolert/Quanti-Tray								
Enterococci	10.0	MPN/100mL	10.0	10	04/01/19 13:58	04/02/19 14:00		

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ANALYTICAL RESULTS

Project: Bay Sampling

Pace Project No.: 2099989

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: Stedman's Landing								
Lab ID: 2099989003								
Collected: 04/01/19 12:33 Received: 04/01/19 13:12 Matrix: Water								
MOB Enterolert/Quanti-Tray								
Analytical Method: Enterolert/Quanti-Tray Preparation Method: Enterolert/Quanti-Tray								
Enterococci	ND	MPN/100mL	10.0	10	04/01/19 13:58	04/02/19 14:00		

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QUALITY CONTROL DATA

Project: Bay Sampling

Pace Project No.: 2099989

QC Batch: 137852

Analysis Method: Enterolert/Quanti-Tray

QC Batch Method: Enterolert/Quanti-Tray

Analysis Description: MOB Enterolert/Quanti-Tray

Associated Lab Samples: 2099989001, 2099989002, 2099989003

METHOD BLANK: 600635

Matrix: Water

Associated Lab Samples: 2099989001, 2099989002, 2099989003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Enterococci	MPN/100mL	ND	1.0	04/02/19 11:22	

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.: 2099989

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.

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

TNI - The Nelac Institute

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bay Sampling

Pace Project No.: 2099989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2099989001	Bayfront Park	Enterolert/Quanti-Tray	137852	Enterolert/Quanti-Tray	137974
2099989002	Lake Forest Yacht Club	Enterolert/Quanti-Tray	137852	Enterolert/Quanti-Tray	137974
2099989003	Stedman's Landing	Enterolert/Quanti-Tray	137852	Enterolert/Quanti-Tray	137974

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CHAIN-OF-CUSTODY / Analytical Report
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant information must be included.

WO#: 2099989



2099989

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information:

Company: Daphne Utilities Wastewater Dept. Report To: Sharon Surra
 Address: P.O. Box 2550 Copy To:
 Daphne, AL 36526 Purchase Order #:
 Email: sharon@daphnenuclides.com Project Name: Bay Sampling
 Phone: (251)380-8561 Fax Project #:
 Requested Due Date: Requested Analysis Filtered (Y/N)

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Residual Chlorine (Y/N)	Regulatory Agency	State / Location
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
1	Bayfront Park	WT	WT	WT	4-19	12:12													
2	Lake Forest Yacht Club	WT	WT	WT	4-19	11:59													
3	Siedman's Landing	WT	WT	WT	4-19	12:33													
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

RELINQUISHED BY / AFFILIATION: *Rebecka* DATE: 4-19 TIME: 13:12
 ACCEPTED BY / AFFILIATION: *Shuadee* DATE: 4-19 TIME: 13:12
 SAMPLE CONDITIONS: 45 Y

SAMPLER NAME AND SIGNATURE: *Rebecka Surra*
 PRINT Name of SAMPLER: Rebecka Surra
 SIGNATURE of SAMPLER: *Rebecka Surra* DATE Signed: 4-1-19
 TEMP in C: _____
 Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____



4320 Midway Dr Mobile, AL 36609

Sample Condition Upon Receipt

Project #:

CLIENT: MO-Daphne

PM: MKB

Due Date: 04/10/19

MO#: 2099989

Courier: Pace Client FedEx UPS Other Tracking # _____

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

Custody Seats Intact: Yes No

Used: Thermometer 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: MSM 4-1-19 SLW

1	Temperature Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2	Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3	Chain of Custody Complete:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5	Sampler Name on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6	Short Hold Time Analyses (<72 hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <i>Entire</i>
7	Rush Turn Around Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
8	Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
9	Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
10	Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
11	Filtered vol. Rec. for Diss. tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
12	Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
13	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
14	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
15	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
16	Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
17	Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Temp must be measured from temperature blank when present

Comments:

Client Notification/Resolution:

Person Contacted:

Date/Time:

Comments/ Resolution: