

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-194641-1
Client Project/Site: NWROC SMP

For:

DEP - Bureau of Labs Biology Section
Twin Towers Lab Complex A Rm 216 6515
2600 Blirstone Rd MS
Tallahassee, Florida 32399

Attn: Kara Sprague



Authorized for release by:
10/29/2020 11:18:09 PM

Noel Savoie, Project Manager I
(850)254-0107
Noel.Savoie@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1

Table of Contents 2

Case Narrative 3

Sample Summary 4

Client Sample Results 5

Definitions 6

QC Association 7

QC Sample Results 10

Chronicle 11

Method Summary 13

Certification Summary 14

Chain of Custody 15

Receipt Checklists 16



Case Narrative

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Job ID: 400-194641-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-194641-1

Comments

No additional comments.

Receipt

The samples were received on 10/19/2020 3:30 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-194641-1	G3NW0127	Water	10/19/20 12:29	10/19/20 15:30	
400-194641-2	G3NW0128	Water	10/19/20 10:23	10/19/20 15:30	
400-194641-3	G3NW0181	Water	10/19/20 09:37	10/19/20 15:30	
400-194641-4	G3NW0182	Water	10/19/20 12:02	10/19/20 15:30	
400-194641-5	G3NW0184	Water	10/19/20 09:48	10/19/20 15:30	
400-194641-6	G3NW0185	Water	10/19/20 10:12	10/19/20 15:30	

Client Sample Results

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Client Sample ID: G3NW0127

Lab Sample ID: 400-194641-1

Date Collected: 10/19/20 12:29

Matrix: Water

Date Received: 10/19/20 15:30

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	2.00	B	2.00	2.00	CFU/100mL			10/19/20 16:45	2

Client Sample ID: G3NW0128

Lab Sample ID: 400-194641-2

Date Collected: 10/19/20 10:23

Matrix: Water

Date Received: 10/19/20 15:30

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	6.00	B	2.00	2.00	CFU/100mL			10/19/20 16:45	2

Client Sample ID: G3NW0181

Lab Sample ID: 400-194641-3

Date Collected: 10/19/20 09:37

Matrix: Water

Date Received: 10/19/20 15:30

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	16.0	B	4.00	4.00	CFU/100mL			10/19/20 16:45	4

Client Sample ID: G3NW0182

Lab Sample ID: 400-194641-4

Date Collected: 10/19/20 12:02

Matrix: Water

Date Received: 10/19/20 15:30

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	10.0	B	2.00	2.00	CFU/100mL			10/19/20 16:45	2

Client Sample ID: G3NW0184

Lab Sample ID: 400-194641-5

Date Collected: 10/19/20 09:48

Matrix: Water

Date Received: 10/19/20 15:30

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	10.0	B	2.00	2.00	CFU/100mL			10/19/20 16:45	2

Client Sample ID: G3NW0185

Lab Sample ID: 400-194641-6

Date Collected: 10/19/20 10:12

Matrix: Water

Date Received: 10/19/20 15:30

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	14.0	B	2.00	2.00	CFU/100mL			10/19/20 16:45	2

Definitions/Glossary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Qualifiers

Biology

Qualifier	Qualifier Description
B	Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Biology

Analysis Batch: 508001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194641-1	G3NW0127	Total/NA	Water	SM 9222D	
400-194641-2	G3NW0128	Total/NA	Water	SM 9222D	
400-194641-3	G3NW0181	Total/NA	Water	SM 9222D	
400-194641-4	G3NW0182	Total/NA	Water	SM 9222D	
400-194641-5	G3NW0184	Total/NA	Water	SM 9222D	
400-194641-6	G3NW0185	Total/NA	Water	SM 9222D	
MB 400-508001/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-508001/2	Lab Control Sample	Total/NA	Water	SM 9222D	
400-194641-1 DU	G3NW0127	Total/NA	Water	SM 9222D	

Fecal Coliform Analysis
Method SM 9222D, 20th/SM 9222D-97

Batch: _____ TALS Batch: 508001 mFC Lot #: _____ Expiration Date: _____
Analyst Setting: MF Date: 10/19/20 Analyst Reading: 100 Date: 10.20.20
Dilution Water Lot #: _____ E. coli Lot #: _____ Membrane Filter Lot #: _____
Loop ID: _____ Pipette 0.5mL ID: _____ Pipette 5mL ID: 10mL Pipette 25mL ID: _____

Petri dishes must be incubated for 24 ± 2 hours @ 44.5 ± 0.2°C (Instrument ID: Incubator IN004).

The analyst maintained custody of the samples during analysis and relinquished samples to the storage refrigerator.

Sample ID	Type of Sample	Res CI (Y/N)	Sample Size (ml)	Set	Read	# colonies	Colonies/ 100ml	Confirmed ("X")
				Time/Temp (hr:min/°C)	Time/Temp (hr:min/°C)			
Blank	Dilution H ₂ O		100	16:45 / 44.5	17:09 / 44.5	0	0	
LCS: <i>E. coli</i> (+ & +)	QC		100	/	/	24000	6000	
127			10	/	/	0	1.05	
127 DU			10	/	/	0	7.0	
			25	/	/	0		
			50	/	/	1		
128			10	/	/	1	7.06	
			25	/	/	2		
			50	/	/	3		
181			10	/	/	0	8.24	
			25	/	/	4		
			50	/	/	3		
182			10	/	/	1	7.06	
			25	/	/	0		
			50	/	/	5		
184			10	/	/	2	11.76	
			25	/	/	3		
			50	/	/	5		
185			10	/	/	1	11.76	
			25	/	/	2		
			50	/	/	7		
End/MS			100	↓	↓	0		

- *E. coli* (LCS) must be analyzed every 10 samples.
- Dilution water blanks must be analyzed at the beginning and end of every run (i.e. when a new funnel is used).
- A new funnel must be used every 30 minutes during analysis.
- DU must be analyzed at the same sample volume as the original sample every 10 samples.

1st Level Reviewer: _____ Date: _____ 2nd Level Reviewer: _____ Date: _____

Coliform Calculations

Sample #	Colonies #	Sample Size (mL)	CFU/100 mL
194641			
1-DU	0	10	0
Total	0	10	0

Sample #	Colonies #	Sample Size (mL)	CFU/100 mL
8			
8			
8			
8			
Total	0	0	#DIV/0!

1	1	50	
1			
1			
1			
Total	1	50	2

9			
9			
9			
9			
Total	0	0	#DIV/0!

2	3	50	
2			
2			
2			
Total	3	50	6

10			
10			
10			
10			
Total	0	0	#DIV/0!

3	4	25	
3			
3			
3			
Total	4	25	16

11			
11			
11			
11			
Total	0	0	#DIV/0!

4	5	50	
4			
4			
4			
Total	5	50	10

12			
12			
12			
12			
Total	0	0	#DIV/0!

5	5	50	
5			
5			
5			
Total	5	50	10

13			
13			
13			
13			
Total	0	0	#DIV/0!

6	7	50	
6			
6			
6			
Total	7	50	14

14			
14			
14			
14			
Total	0	0	#DIV/0!

QC Sample Results

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-508001/1

Matrix: Water

Analysis Batch: 508001

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	1.00	U	1.00	1.00	CFU/100mL			10/19/20 16:45	1

Lab Sample ID: 400-194641-1 DU

Matrix: Water

Analysis Batch: 508001

Client Sample ID: G3NW0127

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Coliform, Fecal	2.00	B	10.0	U	CFU/100mL		NC	50

Lab Chronicle

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Client Sample ID: G3NW0127

Lab Sample ID: 400-194641-1

Date Collected: 10/19/20 12:29

Matrix: Water

Date Received: 10/19/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		2			508001		MAF	TAL PEN
							(Start)	10/19/20 16:45		
							(End)	10/20/20 17:09		

Client Sample ID: G3NW0128

Lab Sample ID: 400-194641-2

Date Collected: 10/19/20 10:23

Matrix: Water

Date Received: 10/19/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		2			508001		MAF	TAL PEN
							(Start)	10/19/20 16:45		
							(End)	10/20/20 17:09		

Client Sample ID: G3NW0181

Lab Sample ID: 400-194641-3

Date Collected: 10/19/20 09:37

Matrix: Water

Date Received: 10/19/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		4			508001		MAF	TAL PEN
							(Start)	10/19/20 16:45		
							(End)	10/20/20 17:09		

Client Sample ID: G3NW0182

Lab Sample ID: 400-194641-4

Date Collected: 10/19/20 12:02

Matrix: Water

Date Received: 10/19/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		2			508001		MAF	TAL PEN
							(Start)	10/19/20 16:45		
							(End)	10/20/20 17:09		

Client Sample ID: G3NW0184

Lab Sample ID: 400-194641-5

Date Collected: 10/19/20 09:48

Matrix: Water

Date Received: 10/19/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		2			508001		MAF	TAL PEN
							(Start)	10/19/20 16:45		
							(End)	10/20/20 17:09		

Lab Chronicle

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Client Sample ID: G3NW0185

Lab Sample ID: 400-194641-6

Date Collected: 10/19/20 10:12

Matrix: Water

Date Received: 10/19/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		2			508001	(Start) 10/19/20 16:45 (End) 10/20/20 17:09	MAF	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-508001/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			508001	(Start) 10/19/20 16:45 (End) 10/20/20 17:09	MAF	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-508001/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			508001	(Start) 10/19/20 16:45 (End) 10/20/20 17:09	MAF	TAL PEN

Client Sample ID: G3NW0127

Lab Sample ID: 400-194641-1 DU

Date Collected: 10/19/20 12:29

Matrix: Water

Date Received: 10/19/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		10			508001	(Start) 10/19/20 16:45 (End) 10/20/20 17:09	MAF	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Method	Method Description	Protocol	Laboratory
SM 9222D	Coliforms, Fecal (Membrane Filter)	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194641-1

Laboratory: Eurofins TestAmerica, Pensacola

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E81010	06-30-21

1

2

3

4

5

6

7

8

9

10

11

12

13

Environment Testing
TestAmerica

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Reli	
Reli	
019	

Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 400-194641-1

Login Number: 194641

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Hinrichsen, Megan E

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4°C IR-9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	