

ANALYTICAL REPORT

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

Laboratory Job ID: 400-199237-1
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:
2/24/2021 4:03:47 PM

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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.

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

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Case Narrative

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

Job ID: 400-199237-1

Job ID: 400-199237-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-199237-1

Comments

No additional comments.

Receipt

The samples were received on 2/10/2021 1:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° 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: 400-199237-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-199237-1	G3NW0215 TWIN LAKE	Water	02/10/21 09:45	02/10/21 13:15	
400-199237-2	G3NW0448 TWIN LAKE	Water	02/10/21 10:00	02/10/21 13:15	
400-199237-3	G3NW0449 TWIN LAKE	Water	02/10/21 10:25	02/10/21 13:15	
400-199237-4	G3NW0216 COLEMAN LAKE	Water	02/10/21 10:55	02/10/21 13:15	
400-199237-5	G3NW0217 KELL-AIRE LAKE	Water	02/10/21 11:10	02/10/21 13:15	

Client Sample Results

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

Job ID: 400-199237-1

Client Sample ID: G3NW0215 TWIN LAKE

Lab Sample ID: 400-199237-1

Date Collected: 02/10/21 09:45

Matrix: Water

Date Received: 02/10/21 13:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	209		2.86	2.86	CFU/100mL			02/10/21 14:50	2.86

Client Sample ID: G3NW0448 TWIN LAKE

Lab Sample ID: 400-199237-2

Date Collected: 02/10/21 10:00

Matrix: Water

Date Received: 02/10/21 13:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	88.0		1.33	1.33	CFU/100mL			02/10/21 14:50	1.333

Client Sample ID: G3NW0449 TWIN LAKE

Lab Sample ID: 400-199237-3

Date Collected: 02/10/21 10:25

Matrix: Water

Date Received: 02/10/21 13:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	100		4.00	4.00	CFU/100mL			02/10/21 14:50	4

Client Sample ID: G3NW0216 COLEMAN LAKE

Lab Sample ID: 400-199237-4

Date Collected: 02/10/21 10:55

Matrix: Water

Date Received: 02/10/21 13:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	510		10.0	10.0	CFU/100mL			02/10/21 14:50	10

Client Sample ID: G3NW0217 KELL-AIRE LAKE

Lab Sample ID: 400-199237-5

Date Collected: 02/10/21 11:10

Matrix: Water

Date Received: 02/10/21 13:15

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	80.0		1.33	1.33	CFU/100mL			02/10/21 14:50	1.333

Definitions/Glossary

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

Job ID: 400-199237-1

Qualifiers

Biology

Qualifier	Qualifier Description
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: 400-199237-1

Biology

Analysis Batch: 520367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-199237-1	G3NW0215 TWIN LAKE	Total/NA	Water	SM 9222D	
400-199237-2	G3NW0448 TWIN LAKE	Total/NA	Water	SM 9222D	
400-199237-3	G3NW0449 TWIN LAKE	Total/NA	Water	SM 9222D	
400-199237-4	G3NW0216 COLEMAN LAKE	Total/NA	Water	SM 9222D	
400-199237-5	G3NW0217 KELL-AIRE LAKE	Total/NA	Water	SM 9222D	
MB 400-520367/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-520367/2	Lab Control Sample	Total/NA	Water	SM 9222D	

Coliform Calculations

Sample #	Colonies #	Sample Size (mL)	CFU/100 mL
1	0	50	
1-DU	0	50	0
1			
1			
Total	0	100	0

199237-1

1	23	10	
1	50	25	
1			
1			
Total	73	35	208.5714

199237-2

2	24	25	
2	42	50	
2			
2			
Total	66	75	88

199237-3

3	25	25	
3			
3			
3			
Total	25	25	100

199237-4

4	51	10	
4			
4			
4			
Total	51	10	510

199237-5

5	22	25	
5	38	50	
5			
5			
Total	60	75	80

Total	0	0	#DIV/0!

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

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

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

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

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

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

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

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

TALS Batch: 520367

mFC ID: 5330686

E. coli ID: 5355643

Analyst Setting: DK

Date: 2/10/21

Analyst Reading: DK

Date: 2/11/21

Dilution Water ID: 5213845

Membrane

Filter ID: 5328342

Petri Dish ID: 5139944

Pipette ID: 5181367

Loop ID: 5344863

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	Funnel #	Res Cl (Y/N)	Sample Size (ml)	Set	Read	# colonies	Colonies/100ml	Confirmed ("X")
					Time/Temp (hr:min/°C)	Time/Temp (hr:min/°C)			
Blank	Dil H ₂ O	14	~	100	1450 / 44.5	1419 / 44.5	0	0	
LCS: E.Coli (+ & +)	QC			100	/	/	760	6000	
199205 A1	DU			50	/	/	0	0	
199219 C1				50	/	/	0	0	
349 (+)				100	/	/	0	0	
349 (-)				100	/	/	760	6000	
349 (S)				100	/	/	0	0	
007 (+)				100	/	/	0	0	
007 (-)				100	/	/	760	6000	
007 (S)				100	/	/	0	0	
End Blank				100	/	/	0	0	
199237 A1		00		10	/	/	0	0	
				25	/	/	0	0	
199237 A2				50	/	/	101	1010	
				10	/	/	16	160	
				25	/	/	24	240	
199237 A3				50	/	/	42	420	
				10	/	/	16	160	
				25	/	/	25	250	
				50	/	/	72	720	

- 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.

Reviewer: DK

Date: 2/11/21

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

TALS Batch: mFC ID: *E. coli* ID:

Analyst Setting: _____ Date: _____ Analyst Reading: _____ Date: _____

Dilution Water ID: _____ Membrane Filter ID: _____ Loop ID: _____

Petri Dish ID: _____ Pipette ID: _____ Loop ID: _____

Petri dishes must be incubated for 24 ± 2 hours @ $44.5 \pm 0.2^\circ\text{C}$ (Instrument ID: Incubator IN004).

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

[illegible]

- *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.

Reviewer: _____ Date: _____

QC Sample Results

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

Job ID: 400-199237-1

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

Lab Sample ID: MB 400-520367/1

Matrix: Water

Analysis Batch: 520367

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			02/10/21 14:50	1

Lab Sample ID: LCS 400-520367/2

Matrix: Water

Analysis Batch: 520367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Coliform, Fecal	6000	6000		CFU/100mL		100	0 - 100

Lab Chronicle

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

Job ID: 400-199237-1

Client Sample ID: G3NW0215 TWIN LAKE

Lab Sample ID: 400-199237-1

Date Collected: 02/10/21 09:45

Matrix: Water

Date Received: 02/10/21 13:15

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		2.86			520367	(Start) 02/10/21 14:50 (End) 02/11/21 14:19	DEK	TAL PEN

Client Sample ID: G3NW0448 TWIN LAKE

Lab Sample ID: 400-199237-2

Date Collected: 02/10/21 10:00

Matrix: Water

Date Received: 02/10/21 13:15

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		1.333			520367	(Start) 02/10/21 14:50 (End) 02/11/21 14:19	DEK	TAL PEN

Client Sample ID: G3NW0449 TWIN LAKE

Lab Sample ID: 400-199237-3

Date Collected: 02/10/21 10:25

Matrix: Water

Date Received: 02/10/21 13:15

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			520367	(Start) 02/10/21 14:50 (End) 02/11/21 14:19	DEK	TAL PEN

Client Sample ID: G3NW0216 COLEMAN LAKE

Lab Sample ID: 400-199237-4

Date Collected: 02/10/21 10:55

Matrix: Water

Date Received: 02/10/21 13:15

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			520367	(Start) 02/10/21 14:50 (End) 02/11/21 14:19	DEK	TAL PEN

Client Sample ID: G3NW0217 KELL-AIRE LAKE

Lab Sample ID: 400-199237-5

Date Collected: 02/10/21 11:10

Matrix: Water

Date Received: 02/10/21 13:15

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		1.333			520367	(Start) 02/10/21 14:50 (End) 02/11/21 14:19	DEK	TAL PEN

Lab Chronicle

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

Job ID: 400-199237-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-520367/1

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			520367	(Start) 02/10/21 14:50 (End) 02/11/21 14:19	DEK	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-520367/2

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			520367	(Start) 02/10/21 14:50 (End) 02/11/21 14:19	DEK	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: 400-199237-1

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: 400-199237-1

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

 eurofins Environment Testing
TestAmerica

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

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: TMDL2/24/2021

Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 400-199237-1

Login Number: 199237

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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	2.0°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	