

ANALYTICAL REPORT

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

Laboratory Job ID: 400-196033-1
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:
11/25/2020 4:41:38 PM

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LINKS

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results through
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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.

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.

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Sample Summary

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

Job ID: 400-196033-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-196033-1	G3NW0215 TWIN LAKE	Water	11/18/20 09:37	11/18/20 15:10	
400-196033-2	G3NW0216 COLEMAN LAKE	Water	11/18/20 10:08	11/18/20 15:10	
400-196033-3	G3NW0217 KELL-AIR LAKE	Water	11/18/20 10:20	11/18/20 15:10	

Client Sample Results

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

Job ID: 400-196033-1

Client Sample ID: G3NW0215 TWIN LAKE

Lab Sample ID: 400-196033-1

Date Collected: 11/18/20 09:37

Matrix: Water

Date Received: 11/18/20 15:10

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	68.0		2.00	2.00	CFU/100mL			11/18/20 15:27	2

Client Sample ID: G3NW0216 COLEMAN LAKE

Lab Sample ID: 400-196033-2

Date Collected: 11/18/20 10:08

Matrix: Water

Date Received: 11/18/20 15:10

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	330		10.0	10.0	CFU/100mL			11/18/20 15:27	10

Client Sample ID: G3NW0217 KELL-AIR LAKE

Lab Sample ID: 400-196033-3

Date Collected: 11/18/20 10:20

Matrix: Water

Date Received: 11/18/20 15:10

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	248	B	4.00	4.00	CFU/100mL			11/18/20 15:27	4

Definitions/Glossary

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

Job ID: 400-196033-1

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: 400-196033-1

Biology

Analysis Batch: 511729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-196033-1	G3NW0215 TWIN LAKE	Total/NA	Water	SM 9222D	
400-196033-2	G3NW0216 COLEMAN LAKE	Total/NA	Water	SM 9222D	
400-196033-3	G3NW0217 KELL-AIR LAKE	Total/NA	Water	SM 9222D	
MB 400-511729/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-511729/8	Lab Control Sample	Total/NA	Water	SM 9222D	

Coliform Calculations

Sample #	Colonies #	Sample Size (mL)	CFU/100 mL
196009-1d			
	15	10	150
Total	15	10	150

196009-1

1	40	10	
1	33	25	
1	40	50	
Total	113	85	132.9412

196033-1

1	34	50	
1			
1			
Total	34	50	68

196033-2

2	33	10	
2			
2			
Total	33	10	330

193033-3

3	62	25	
3			
3			
Total	62	25	248

6			
6			
6			
6			
Total	0	0	#DIV/0!

7			
7			
7			
7			
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

Batch: _____ TALS Batch: 511729 mFC Lot #: _____ Expiration Date: _____
Analyst Setting: SMW Date: 11/18/20 Analyst Reading: 2 Date: 11/19/20
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 Cl (Y/N)	Sample Size (ml)	Set		Read		# colonies	Colonies/ 100ml	Confirmed ("X")
				Time/Temp (hr:min/°C)	Time/Temp (hr:min/°C)	Time/Temp (hr:min/°C)	Time/Temp (hr:min/°C)			
Blank	Dilution H ₂ O	N	100	12:35 / 44.4	14:21 / 44.4			0	0	
LCS: E. Coli (+ & +)	QC		1/100	1	1	1	1	260	6000	
15987 I-007			50	1	1	1	1	0	0	
DU			50	1	1	1	1	0	0	
145991 TOS			100	1	1	1	1	0	0	
End Blank			100	1	1	1	1	0	0	
146009 EC 10 mL			10	14:12 / 44.5	1	1	1	40	134.74	
EC 10 mL DU			10	1	1	1	1	15	150	
EC 25 mL			25	1	1	1	1	33		
EC 50 mL			50	1	1	1	1	40		
End Blank			100	1	1	1	1	0		
TL 10 mL			10	15:27 / 44.5	1	1	1	4	53.68	
TL 10 mL DU			10	1	1	1	1	6	60	
TL 25 mL			25	1	1	1	1	3		
TL 50 mL			50	1	1	1	1	34		
CL 10 mL			10	1	1	1	1	33	352.94	
CL 25 mL			25	1	1	1	1	97		
CL 50 mL			50	1	1	1	1	170		
K-A L 10 mL			10	1	1	1	1	170	174.67	
K-A L 25 mL			25	1	1	1	1	62		
K-A L 50 mL			50	1	1	1	1	69		
End Blank			100	1	1	1	1	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: _____

QC Sample Results

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

Job ID: 400-196033-1

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

Lab Sample ID: MB 400-511729/1

Matrix: Water

Analysis Batch: 511729

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			11/18/20 12:35	1

Lab Chronicle

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

Job ID: 400-196033-1

Client Sample ID: G3NW0215 TWIN LAKE

Lab Sample ID: 400-196033-1

Date Collected: 11/18/20 09:37

Matrix: Water

Date Received: 11/18/20 15:10

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			511729		RRC	TAL PEN
							(Start)	11/18/20 15:27		
							(End)	11/19/20 14:21		

Client Sample ID: G3NW0216 COLEMAN LAKE

Lab Sample ID: 400-196033-2

Date Collected: 11/18/20 10:08

Matrix: Water

Date Received: 11/18/20 15:10

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			511729		RRC	TAL PEN
							(Start)	11/18/20 15:27		
							(End)	11/19/20 14:21		

Client Sample ID: G3NW0217 KELL-AIR LAKE

Lab Sample ID: 400-196033-3

Date Collected: 11/18/20 10:20

Matrix: Water

Date Received: 11/18/20 15:10

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			511729		RRC	TAL PEN
							(Start)	11/18/20 15:27		
							(End)	11/19/20 14:21		

Client Sample ID: Method Blank

Lab Sample ID: MB 400-511729/1

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			511729		RRC	TAL PEN
							(Start)	11/18/20 12:35		
							(End)	11/19/20 14:21		

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-511729/8

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			511729		RRC	TAL PEN
							(Start)	11/18/20 12:35		
							(End)	11/19/20 14:21		

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: 400-196033-1

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: 400-196033-1

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

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10

11

12

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:TMDL

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

Client Contact		Project Manager: Kara Sprague		Contact: Stopher Slade		Date: 11/18/20		COC No: 660-90793-29403.1	
Florida Department of Environmental Protection		Email: dep-overflowmicro@dep.state.fl.us		Contact #: 850-595-0567		Carrier: Hand delivered		1 of 1 COCs	
2600 Blair Stone Rd.		Tel/Fax: 850-245-8826						Sampler: S Slade	
Tallahassee, FL 32301		Analysis Turnaround Time						For Lab Use Only:	
Phone		☒ CALENDAR DAYS ☐ WORKING DAYS						Walk-in Client:	
FAX		TAT if different from Below _____						Lab Sampling:	
Project Name: NWROC SMP RQ-2020-11-16-40		☒ 2 weeks							
Site:		☐ 1 week							
P O # B7CCF3		☐ 2 days							
		☐ 1 day							
Sample Identification		Sample Date	Sample Time (CTZ)	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9222D- Fecal Coliforms (Membrane Filter)
G3NW0215 Twin Lake	11/18/20	0937	G	W	1	N			
G3NW0216 Coleman Lake	11/18/20	1008	G	W	1	N			
G3NW0217 Kell-Air Lake	11/18/20	1020	G	W	1	N			
400-196033 COC									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification:									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months									
Special Instructions/QC Requirements & Comments:									
13.6.C IR7									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C): Obs'd:		Corr'd:		Therm ID No.:	
Relinquished by: <i>Stopher Slade</i>		Company: FDEP		Date/Time: 11/18/20 14:00		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received by: <i>Becky</i>		Company: <i>Slade</i>	

Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 400-196033-1

Login Number: 196033

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Gore, Beija K

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.	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	13.6 °C IR 7
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	