

ANALYTICAL REPORT

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

Laboratory Job ID: 400-185545-1
Client Project/Site: NWROC SMP
Revision: 1

For:

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

Attn: Reporting Group



Authorized for release by:
5/5/2020 8:55:34 AM

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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	12
Certification Summary	13
Chain of Custody	14
Receipt Checklists	15



Case Narrative

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

Job ID: 400-185545-1

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Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-185545-1

Comments

Revision created to implement a dilution reporting convention. The result did not change, but the dilution factor did.

Receipt

The sample was received on 3/18/2020 1:40 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3° 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: 400-185545-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-185545-1	G3NW0137 MULLET CREEK	Water	03/18/20 10:08	03/18/20 13:40	

Client Sample Results

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

Job ID: 400-185545-1

Client Sample ID: G3NW0137 MULLET CREEK

Lab Sample ID: 400-185545-1

Date Collected: 03/18/20 10:08

Matrix: Water

Date Received: 03/18/20 13:40

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	290		5.0	5.0	CFU/100mL			03/18/20 14:14	5

Definitions/Glossary

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

Job ID: 400-185545-1

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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Association Summary

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

Job ID: 400-185545-1

Biology

Analysis Batch: 483227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185545-1	G3NW0137 MULLET CREEK	Total/NA	Water	SM 9222D	
MB 400-483227/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-483227/2	Lab Control Sample	Total/NA	Water	SM 9222D	
400-185545-1 DU	G3NW0137 MULLET CREEK	Total/NA	Water	SM 9222D	

Coliform Calculations

Sample #	Colonies #	Sample Size (mL)	CFU/100m L
1	30	10	270
1-DU	27	10	
1			
1	0	0	
Total	57	20	285

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

2			#DIV/0!
2			
2			
2			
Total	0	0	#DIV/0!

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

3			#DIV/0!
3			
3			
3			
Total	0	0	#DIV/0!

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

4			#DIV/0!
4			
4			
4			
Total	0	0	#DIV/0!

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

5			#DIV/0!
5			
5			
5			
Total	0	0	#DIV/0!

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

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

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

7			#DIV/0!
7			
7			
7			
Total	0	0	#DIV/0!

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

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

Batch: _____ TALIS Batch: 153227 mFC Lot #: 4462579 Expiration Date: 01/01/21
Analyst Setting: MF Date: 3/19/20 Analyst Reading: MF Date: 3/19/20
Dilution Water Lot #: 4057212 E. coli Lot #: 4906008 Membrane Filter Lot #: 4656530
Loop ID: 4938407 Pipette 0.5mL ID: _____ Pipette 5mL ID: _____ Pipette 25mL ID: 4962379

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.

1st Level Reviewer: MS Date: 3/25/20 2nd Level Reviewer: _____ Date: _____

QC Sample Results

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

Job ID: 400-185545-1

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

Lab Sample ID: MB 400-483227/1

Matrix: Water

Analysis Batch: 483227

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	1.0	U	1.0	1.0	CFU/100mL	-		03/18/20 14:14	1

Lab Sample ID: 400-185545-1 DU

Matrix: Water

Analysis Batch: 483227

Client Sample ID: G3NW0137 MULLET CREEK

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Coliform, Fecal	290		270		CFU/100mL	-	5	50

Lab Chronicle

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

Job ID: 400-185545-1

Client Sample ID: G3NW0137 MULLET CREEK

Lab Sample ID: 400-185545-1

Date Collected: 03/18/20 10:08

Matrix: Water

Date Received: 03/18/20 13:40

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		5			483227	(Start) 03/18/20 14:14 (End) 03/19/20 16:00	MAF	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-483227/1

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			483227	(Start) 03/18/20 14:14 (End) 03/19/20 16:00	MAF	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-483227/2

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			483227	(Start) 03/18/20 14:14 (End) 03/19/20 16:00	MAF	TAL PEN

Client Sample ID: G3NW0137 MULLET CREEK

Lab Sample ID: 400-185545-1 DU

Date Collected: 03/18/20 10:08

Matrix: Water

Date Received: 03/18/20 13:40

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			483227	(Start) 03/18/20 14:14 (End) 03/19/20 16:00	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: 400-185545-1

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: 400-185545-1

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E81010	06-30-20

Laboratory: Eurofins TestAmerica, Tampa

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E84282	06-30-21

Eurofins TestAmerica, Pensacola

3355 McLemore Drive
Pensacola, FL 32514-7045

phone 850.474.1001 fax 850.474.4789 or 850.478.2671

Chain of Custody Record

Environment Testing
TestAmericaRegulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: TMDL

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

Client Contact Florida Department of Environmental Protection 2600 Blair Stone Rd. Tallahassee, FL 32301 Phone FAX Project Name: NWROC SMP RQ-2020-03-16-19 Site: Mullet Creek Continuous Run P O # 66014693		Project Manager: Kara Sprague Email: dep-overflowmicro@dep.state.fl.us Tel/Fax: 850-245-8826 Analysis Turnaround Time ☒ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Contact: Stopher Slade Contact #: 850-595-0567 Date: 3/19/20 Carrier: Hand delivered		COC No: 660-90793-29403.1 1 of 1 COCs Sampler: M. Clark For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sample Specific Notes:					
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)	 400-185545 COC	
G3NW0137 Mullet Creek		3/19/20	10:08	G	W	1	N	1			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other											
Possible Hazard Identification: 1											
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:											
Custody Seals Intact: ☐ Yes ☐ No											
Relinquished by: Myron Clark		Custody Seal No.:		Company: FDEP		Date/Time: 3/19/20 13:40		Received by: [Signature]		Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No.:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time: 3/19/20 13:40	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:	

Page 14 of 15

5/5/2020 (Rev. 1)

Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 400-185545-1

Login Number: 185545

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	0.3°C IRT-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.	True	
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	