

ANALYTICAL REPORT

PREPARED FOR

Attn: Reporting Group
DEP - Bureau of Labs Biology Section
Twin Towers Lab Complex A Rm 216 6515
2600 Blairstone Rd MS
Tallahassee, Florida 32399

Generated 12/18/2023 10:16:32 PM

JOB DESCRIPTION

NWROC SMP

JOB NUMBER

660-133137-1

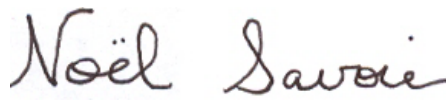
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Sample Summary

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

Job ID: 660-133137-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-133137-1	G1SW0160	Water	11/27/23 09:40	11/27/23 13:10
660-133137-2	G2SW0143	Water	11/27/23 10:45	11/27/23 13:10
660-133137-3	G1SW0147	Water	11/27/23 11:20	11/27/23 13:10
660-133137-4	G1SW0136	Water	11/27/23 12:05	11/27/23 13:10
660-133137-5	G2SW0157	Water	11/27/23 12:35	11/27/23 13:10

Case Narrative

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

Job ID: 660-133137-1

Job ID: 660-133137-1

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Job Narrative 660-133137-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/27/2023 1:10 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 time was 4.6°C

Biology

Method QuantiTray2000: Samples were received in client provided containers for this analysis and were transferred into a 100 ml container per Tampa SOP ID: OR-BA-001, Rev. 2. .G1SW0060 (660-131910-1), G2SW0157 (660-131910-2), G2SW0158 (660-131910-3), G2SW0143 (660-131910-4), G1SW0136 (660-131910-5) and G1SW0146 (660-131910-6)

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

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Definitions/Glossary

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

Job ID: 660-133137-1

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

Detection Summary

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

Job ID: 660-133137-1

Client Sample ID: G1SW0160



Lab Sample ID: 660-133137-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	1990		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G2SW0143

Lab Sample ID: 660-133137-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	2420		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G1SW0147

Lab Sample ID: 660-133137-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	>2420		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G1SW0136

Lab Sample ID: 660-133137-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	>2420		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G2SW0157

Lab Sample ID: 660-133137-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	>2420		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 660-133137-1

Client Sample ID: G1SW0160



Lab Sample ID: 660-133137-1

Date Collected: 11/27/23 09:40

Matrix: Water

Date Received: 11/27/23 13:10

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	1990		1.00	1.00	MPN/100mL			11/27/23 16:00	1

Client Sample ID: G2SW0143

Lab Sample ID: 660-133137-2

Date Collected: 11/27/23 10:45

Matrix: Water

Date Received: 11/27/23 13:10

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	2420		1.00	1.00	MPN/100mL			11/27/23 16:00	1

Client Sample ID: G1SW0147

Lab Sample ID: 660-133137-3

Date Collected: 11/27/23 11:20

Matrix: Water

Date Received: 11/27/23 13:10

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	>2420		1.00	1.00	MPN/100mL			11/27/23 16:00	1

Client Sample ID: G1SW0136

Lab Sample ID: 660-133137-4

Date Collected: 11/27/23 12:05

Matrix: Water

Date Received: 11/27/23 13:10

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	>2420		1.00	1.00	MPN/100mL			11/27/23 16:00	1

Client Sample ID: G2SW0157

Lab Sample ID: 660-133137-5

Date Collected: 11/27/23 12:35

Matrix: Water

Date Received: 11/27/23 13:10

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	>2420		1.00	1.00	MPN/100mL			11/27/23 16:00	1

QC Sample Results

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

Job ID: 660-133137-1

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Lab Sample ID: MB 660-259613/1
Matrix: Water
Analysis Batch: 259613

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	1.00	U	1.00	1.00	MPN/100mL			11/27/23 16:00	1

Lab Sample ID: 660-133137-1 DU
Matrix: Water
Analysis Batch: 259613

Client Sample ID: G1SW0160
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Escherichia coli	1990		2420		MPN/100ml		20	50

QC Association Summary

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

Job ID: 660-133137-1

Biology

Analysis Batch: 259613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133137-1	G1SW0160	Total/NA	Water	SM QT2000	
660-133137-2	G2SW0143	Total/NA	Water	SM QT2000	
660-133137-3	G1SW0147	Total/NA	Water	SM QT2000	
660-133137-4	G1SW0136	Total/NA	Water	SM QT2000	
660-133137-5	G2SW0157	Total/NA	Water	SM QT2000	
MB 660-259613/1	Method Blank	Total/NA	Water	SM QT2000	
660-133137-1 DU	G1SW0160	Total/NA	Water	SM QT2000	

TOTAL COLIFORM / E. COLI by COLILERT™ 18 Quanti-Tray SM 9223B

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Setup Analyst: **SK**

Incubator ID: **INC 005**

Media ID: **6W222**

Date/Time/Temp In: **11/22/23/1600/35.0°C**

Sealer ID: **002**

Tray(s) ID: **EW 104J**

Read Analyst: **AJA**

Thermometer ID: **MICRO 10**

UV ID: **001**

Date/Time/Temp Out: **11/24/23/1000/35.0°C**

Chlorine Strip ID: **2120**

Batch#: **259613**

Sample ID/#	Residual Chlorine (Pos / Neg)	Dilution (Sample Vol Used)	Total Coliform			E. Coli			Comments
			# Positive Large Wells	# Positive Small Wells	Results MPN/100mL ¹	# Positive Large Wells	# Positive Small Wells	Results MPN/100mL ¹	
Blank	-	100	0	0	0	0	0	0	N/A
DUP	-	100	0	0	0	0	0	0	N/A
133137-A-1	-	100	49	48	N/A	49	46	1986.3	N/A
D4	-	100	49	48	>2419.6	49	47	2419.6	N/A
133137-A-2	-	100	49	48	>2419.6	49	47	2419.6	N/A
133137-A-3	-	100	49	48	>2419.6	49	48	>2419.6	N/A
133137-A-4	-	100	49	48	>2419.6	49	48	>2419.6	N/A
133137-A-5	-	100	49	48	>2419.6	49	48	>2419.6	N/A
N/A									
AJA									
11/28/23									

* Samples received in plastic 250ml bottles. Incorrect containers for this method analysis.

Revision #: 0
Effective Date: 11/21/2023

¹ Results are based on the Idexx MPN table in applicable SOP. Dilution factors are applied in TALS.
Document ID: LB-071
Document Title: Total Coliform, E. Coli by Colilert 18 QT SM 9223B Logbook
Page: 2 of 100

Lab Chronicle

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

Job ID: 660-133137-1

Client Sample ID: G1SW0160

Date Collected: 11/27/23 09:40

Date Received: 11/27/23 13:10



Lab Sample ID: 660-133137-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259613	AA	EET TAM	11/27/23 16:00

Client Sample ID: G2SW0143

Date Collected: 11/27/23 10:45

Date Received: 11/27/23 13:10

Lab Sample ID: 660-133137-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259613	AA	EET TAM	11/27/23 16:00

Client Sample ID: G1SW0147

Date Collected: 11/27/23 11:20

Date Received: 11/27/23 13:10

Lab Sample ID: 660-133137-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259613	AA	EET TAM	11/27/23 16:00

Client Sample ID: G1SW0136

Date Collected: 11/27/23 12:05

Date Received: 11/27/23 13:10

Lab Sample ID: 660-133137-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259613	AA	EET TAM	11/27/23 16:00

Client Sample ID: G2SW0157

Date Collected: 11/27/23 12:35

Date Received: 11/27/23 13:10

Lab Sample ID: 660-133137-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259613	AA	EET TAM	11/27/23 16:00

Laboratory References:

EET TAM = Eurofins Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Method Summary

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

Job ID: 660-133137-1

Method	Method Description	Protocol	Laboratory
SM QT2000	Coliforms, Total (Quanti Tray)	SM	EET TAM

Protocol References:

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

Laboratory References:

EET TAM = Eurofins Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Accreditation/Certification Summary

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

Job ID: 660-133137-1

Laboratory: Eurofins Tampa

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E84282	06-30-24

1
2
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12
13
14

6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Phone (813) 885-7049

RQ- 2023- 24-25 eurofins

Environment Testing

[illegible]

Ver: 01/16/2019

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Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 660-133137-1

Login Number: 133137

List Number: 1

Creator: Grohman, Tina

List Source: Eurofins Tampa

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.	True	
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	
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.	False	Refer to Job Narrative for details.
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	