

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 11/9/2023 1:32:01 PM

JOB DESCRIPTION

NWROC SMP

JOB NUMBER

660-132589-1

Eurofins Tampa

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: 660-132589-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-132589-1	G25W0159	Water	10/30/23 09:50	10/30/23 13:10
660-132589-2	G25W0169	Water	10/30/23 10:25	10/30/23 13:10
660-132589-3	G25W0115	Water	10/30/23 10:50	10/30/23 13:10
660-132589-4	G25W0087	Water	10/30/23 11:35	10/30/23 13:10
660-132589-5	G25W0085	Water	10/30/23 12:25	10/30/23 13:10

Case Narrative

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

Job ID: 660-132589-1

Job ID: 660-132589-1

Laboratory: Eurofins Tampa

Narrative

Job Narrative 660-132589-1

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 10/30/2023 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 6.0°C

Receipt Exceptions

The containers and the labels do not match. The labels states it is a 250ml preserved with sodium thisulfate; however, the container is a 125 ml and is marked as being unpreserved.

Biology

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

Definitions/Glossary

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

Job ID: 660-132589-1

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: 660-132589-1

Client Sample ID: G25W0159

Lab Sample ID: 660-132589-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	48.8		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G25W0169

Lab Sample ID: 660-132589-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	1200		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G25W0115

Lab Sample ID: 660-132589-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	727		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G25W0087

Lab Sample ID: 660-132589-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	866		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G25W0085

Lab Sample ID: 660-132589-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	488		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Tampa

Client Sample Results

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

Job ID: 660-132589-1

Client Sample ID: G25W0159

Lab Sample ID: 660-132589-1

Date Collected: 10/30/23 09:50

Matrix: Water

Date Received: 10/30/23 13:10

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	48.8		1.00	1.00	MPN/100mL			10/30/23 15:45	1

Client Sample ID: G25W0169

Lab Sample ID: 660-132589-2

Date Collected: 10/30/23 10:25

Matrix: Water

Date Received: 10/30/23 13:10

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	1200		1.00	1.00	MPN/100mL			10/30/23 15:45	1

Client Sample ID: G25W0115

Lab Sample ID: 660-132589-3

Date Collected: 10/30/23 10:50

Matrix: Water

Date Received: 10/30/23 13:10

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	727		1.00	1.00	MPN/100mL			10/30/23 15:45	1

Client Sample ID: G25W0087

Lab Sample ID: 660-132589-4

Date Collected: 10/30/23 11:35

Matrix: Water

Date Received: 10/30/23 13:10

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	866		1.00	1.00	MPN/100mL			10/30/23 15:45	1

Client Sample ID: G25W0085

Lab Sample ID: 660-132589-5

Date Collected: 10/30/23 12:25

Matrix: Water

Date Received: 10/30/23 13:10

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	488		1.00	1.00	MPN/100mL			10/30/23 15:45	1

QC Sample Results

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

Job ID: 660-132589-1

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

Lab Sample ID: MB 660-259547/1

Matrix: Water

Analysis Batch: 259547

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			10/30/23 15:45	1

QC Association Summary

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

Job ID: 660-132589-1

Biology

Analysis Batch: 259547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-132589-1	G25W0159	Total/NA	Water	SM QT2000	
660-132589-2	G25W0169	Total/NA	Water	SM QT2000	
660-132589-3	G25W0115	Total/NA	Water	SM QT2000	
660-132589-4	G25W0087	Total/NA	Water	SM QT2000	
660-132589-5	G25W0085	Total/NA	Water	SM QT2000	
MB 660-259547/1	Method Blank	Total/NA	Water	SM QT2000	

Setup Analyst: SK quantl-tray 2000 (MPN) SM9223B-1997 Logbook
Incubator#: INC 005 Batch ID#: 259547
Start Time: 1545 Cor. Factor: 0
Date In: 10/30/23 Comparator TALS ID: LM 334
Time In: 1600 Residual Chlorine Strip TALS ID: 2120
Corr. Temp. In: 55.10 Dilution Water TALS ID: NA
Corr. Temp. after 30 min: 44.40 Reagent TALS ID: GW 222
35.10 Tray TALS ID: EW 1045

Read Analyst: SK
Thermometer ID#: MICRO 10
Date Out: 10/31/23
Time Out: 1000
Corr. Temp. Out: 35.10
44.40 55.10 35.10

Log Number / Sample ID	Dilution Factor	Chlorine Check (+/-)	Added Media	Poured into QT (incl tray#) and sealed	Hours		Visible Results Yellow		Visible Results Fluorescence		Total Coliform MPN/100mL	E. coli MPN/100mL	Final Total Coliform MPN/100mL	Final E. coli MPN/100mL	Vessel ID	NCM / Comments
					15	28	#Lg Wells	#Sm Wells	#Lg Wells	#Sm Wells						
MB / Buffer H ₂ O	1	N/A	✓	✓	✓	NA	0	0	0	0	0	0	0	0		123713
132589-A1	1	-	✓	✓	✓	✓	49	48	28	6	>2419.6	48.8	>2419.6	48.8	Rel'd in	
132589-A2	1	-	✓	✓	✓	✓	49	48	49	41	>2419.6	1203.3	>2419.6	1203.3	client container	
132589-A3	1	-	✓	✓	✓	✓	49	48	49	33	>2419.6	727.0	>2419.6	727.0		
132589-A4	1	-	✓	✓	✓	✓	49	48	49	36	>2419.6	866.4	>2419.6	866.4		
132589-A5	1	-	✓	✓	✓	✓	49	48	49	26	>2419.6	488.4	>2419.6	488.4		
10/31/23 5X																

* Incorrect containers for this method.

Form #: FBA004:04.06.22:12
Logbook #: NBA003:04.06.22:22

Lab Chronicle

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

Job ID: 660-132589-1

Client Sample ID: G25W0159

Lab Sample ID: 660-132589-1

Date Collected: 10/30/23 09:50

Matrix: Water

Date Received: 10/30/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259547	SGF	EET TAM	10/30/23 15:45

Client Sample ID: G25W0169

Lab Sample ID: 660-132589-2

Date Collected: 10/30/23 10:25

Matrix: Water

Date Received: 10/30/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259547	SGF	EET TAM	10/30/23 15:45

Client Sample ID: G25W0115

Lab Sample ID: 660-132589-3

Date Collected: 10/30/23 10:50

Matrix: Water

Date Received: 10/30/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259547	SGF	EET TAM	10/30/23 15:45

Client Sample ID: G25W0087

Lab Sample ID: 660-132589-4

Date Collected: 10/30/23 11:35

Matrix: Water

Date Received: 10/30/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259547	SGF	EET TAM	10/30/23 15:45

Client Sample ID: G25W0085

Lab Sample ID: 660-132589-5

Date Collected: 10/30/23 12:25

Matrix: Water

Date Received: 10/30/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259547	SGF	EET TAM	10/30/23 15:45

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: 660-132589-1

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: 660-132589-1

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

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Eurofins Tampa

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

Chain of Custody Record

RQ-2023-09-25-1



Environment Testing

Client Information Client Contact: Kara Sprague Company: DEP - Bureau of Labs Biology Section Address: Twin Towers Lab Complex A Rm 216 6515 2600 Blairstone Rd N City: Tallahassee State, Zip: FL, 32399 Phone: 850-245-8166 Email: kara.sprague@floridadep.gov dep-overflowmicro@dep.state.fl.us Project Name: SWROC SMP Site: Florida		Lab PM: Savoie, Noel E-Mail: Noel.Savoie@eurofins.com Carrier Tracking No(s): State of Origin: Job #:		COC No: 660-94051-30371 1 Page: Page 1 of 1	
Due Date Requested: TAT Requested (days): Compliance Project: ☐ Yes ☒ No W/O #: 66014693 Project #: 66014693 SSOW#:		Analysis Requested			
Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:		Preservation Codes: M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecalhydrate U Acetone V MCAA W pH 4.5 Y Tizma Z other (specify)			
Sample Identification Sample ID: G2SW059 G2SW069 G2SW05 G2SW087 G2SW085		Sample Date: 10/23/23 Sample Time: 0950 Sample Type: G-grab Matrix: Water		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Total Number of Containers:	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date: 10/30/23 1310 Company:			
Relinquished by:		Date/Time: 10-30-23 1310 Company:			
Relinquished by:		Date/Time: Company:			
Relinquished by:		Date/Time: Company:			
Custody Seal Intact: ☐ Yes ☒ No		Cooler Temperature(s) °C and Other Remarks: 5.6/6.0 Curlog			

Loc 660
132589



660-132589 Chain of Custody



Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 660-132589-1

Login Number: 132589

List Source: Eurofins Tampa

List Number: 1

Creator: Grohman, Tina

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	Improper containers received.
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	