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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Devan R Cobb
DEP-Chemistry Section
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Generated 1/31/2023 4:16:09 PM

JOB DESCRIPTION

OV423

JOB NUMBER

660-126352-1

Eurofins Tampa
6712 Benjamin Road
Suite 100
Tampa FL 33634

See page two for job notes and contact information.

my EOL

Job Notes

Methods: FDEP, DOH Certification #: E84282, E81005 These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the Eurofins Environment Testing Southeast LLC Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

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

Generated
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Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

Table of Contents

Sample Summary

Client: DEP-Chemistry Section
Project/Site: OV423

Job ID: 660-126352-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-126352-1	2381430	Water	01/17/23 11:12	01/18/23 09:05
660-126352-2	2381429	Water	01/17/23 11:38	01/18/23 09:05

Case Narrative

Client: DEP-Chemistry Section
Project/Site: OV423

Job ID: 660-126352-1

Job ID: 660-126352-1

Laboratory: Eurofins Tampa

Narrative

Job Narrative
660-126352-1

Receipt
The samples were received on 1/18/2023 9:05 AM. 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 0.8°C

Receipt Exceptions
Samples sent to Tampa in error. Client requested the Orlando lab proceed with the analyticals even though they would be outside of holding time.

General Chemistry
Method SM5210B_BODCalc: The glucose-glutamic acid standard (LCS) recovered outside the recovery limits specified in the method in batch 670-20093. The method holding time had expired, therefore the analysis was not repeated. The data was qualified and reported.

Method SM5210B_BODCalc: The following sample was analyzed outside of analytical holding time due to received out of hold: 2381430 (660-126352-1).

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

Definitions/Glossary

Client: DEP-Chemistry Section
Project/Site: OV423

Job ID: 660-126352-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
Q	Sample held beyond the accepted holding time.
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
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-Chemistry Section
Project/Site: OV423

Job ID: 660-126352-1

Client Sample ID: 2381430 — Lab Sample ID: 660-126352-1

No Detections.

Client Sample ID: 2381429 — Lab Sample ID: 660-126352-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: DEP-Chemistry Section
Project/Site: OV423

Job ID: 660-126352-1

Client Sample ID: 2381430

Date Collected: 01/17/23 11:12
Date Received: 01/18/23 09:05

Lab Sample ID: 660-126352-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand (SM5210B)	1.0	J3 Q U	2.0	1.0	mg/L			01/19/23 11:16	1

Client Sample ID: 2381429

Date Collected: 01/17/23 11:38
Date Received: 01/18/23 09:05

Lab Sample ID: 660-126352-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand (SM5210B)	1.0	J3 U	2.0	1.0	mg/L			01/19/23 11:23	1

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 670-20093/2
Matrix: Water
Analysis Batch: 20093

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	1.0	U	2.0	1.0	mg/L			01/19/23 10:45	1

Lab Sample ID: SCB 670-20093/4
Matrix: Water
Analysis Batch: 20093

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

Analyte	SCB Result	SCB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	43.7		2.0	1.0	mg/L			01/19/23 10:48	1

Lab Sample ID: USB 670-20093/1
Matrix: Water
Analysis Batch: 20093

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

Analyte	USB Result	USB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	1.0	U	2.0	1.0	mg/L			01/19/23 10:42	1

Lab Sample ID: LCS 670-20093/3
Matrix: Water
Analysis Batch: 20093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	247	J3	mg/L		125	85 - 115		

Lab Sample ID: 660-126396-B-1 DU
Matrix: Water
Analysis Batch: 20093

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand				3.03	J3	mg/L					20

QC Association Summary

Client: DEP-Chemistry Section
Project/Site: OV423

Job ID: 660-126352-1

General Chemistry

Analysis Batch: 20093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-126352-1	2381430	Total/NA	Water	SM5210B	
660-126352-2	2381429	Total/NA	Water	SM5210B	
MB 670-20093/2	Method Blank	Total/NA	Water	SM5210B	
SCB 670-20093/4	Method Blank	Total/NA	Water	SM5210B	
USB 670-20093/1	Method Blank	Total/NA	Water	SM5210B	
LCS 670-20093/3	Lab Control Sample	Total/NA	Water	SM5210B	
660-126396-B-1 DU	Duplicate	Total/NA	Water	SM5210B	

Lab Chronicle

Client: DEP-Chemistry Section
Project/Site: OV423

Job ID: 660-126352-1

Client Sample ID: 2381430
Date Collected: 01/17/23 11:12
Date Received: 01/18/23 09:05

Lab Sample ID: 660-126352-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM5210B		1	20093	AAM	EET ORL	01/19/23 11:16

Client Sample ID: 2381429
Date Collected: 01/17/23 11:38
Date Received: 01/18/23 09:05

Lab Sample ID: 660-126352-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM5210B		1	20093	AAM	EET ORL	01/19/23 11:23

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

Method Summary

Client: DEP-Chemistry Section
Project/Site: OV423

Job ID: 660-126352-1

Method	Method Description	Protocol	Laboratory
SM5210B	BOD, 5 Day	SM	EET ORL

Protocol References:

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

Accreditation/Certification Summary

Client: DEP-Chemistry Section
Project/Site: OV423

Job ID: 660-126352-1

Laboratory: Eurofins Orlando

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E83018	06-30-23
North Carolina (DW)	State	12712	07-31-23

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TASK ASSIGNMENT/NOTIFICATION FORM: LAB145

Contract Manager: Linda Allen/Devan Cobb (850)-245-8084 / (850) 245-8078
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

Contractor: Eurofins Environmental Testing Southeast, LLC
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

DEP Approval By: Devan R. Cobb-Williams Contractor Approval By: Noel Savoie (66018217)
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 1/11/2023
Means of Contact: Email

Task Assignment Number: OV423 Maximum Cost: **$83.00** Turnaround Time: 5 BD

Sample Delivery Date: 1/19/2022

Project Name/Description:
RQ-2023-01-1654; BMAP - Sweetwater and Salt

Deliverable Number/ Parameter Group/ Method	**Sample Matrix**	**# of Samples**	**# of Containers**	**DEP ID #**	**Unit Cost**	**% Mark-up (if any)**	**Cost**
Quote/OV-BOD-UN BOD, NOT nitrogen-inhibited 5210B-2011	W	2	2		$39.00		$78.00
217/Sample Disposal Fee:	2				$2.50		$5.00
Total Number of Containers Shipped:		2				**Total:**	**$83.00**

660-126352 Chain of Custody

Loc: 660
126352

QC Instructions:

Comments: Quote # 66018208 - 0

Samples released to Contract Lab by: _____ Date/Time: _____

Delivery Method: Shipping

Samples Accepted by: _____ Date/Time 1/18/23 9:05

*** Please sign and return by email to** Linda.S.Allen@FloridaDEP.gov and **Devan.R.Cobb@dep.state.fl.us**

1.0 | 0.8 CU - 99

REQUEST ID	EVENT ID	SAMPLE ID	FIELD ID	DATE SAMPLED	REFERENCE METHOD	COMPONENT	MATRIX	ANALYSIS
RQ-2023-01-16-54	CEN-DIST-2023-01-18-01	2381429	G2CE0088	1/17/2023 11:38	SM 5210 B	Biochemical Oxygen Demand	W-SURF-FRH	OV-BOD-UN
RQ-2023-01-16-54	CEN-DIST-2023-01-18-01	2381430	G2CE0123	1/17/2023 11:12	SM 5210 B	Biochemical Oxygen Demand	W-SURF-FRH	OV-BOD-UN

Eurofins Tampa
6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone: 813-885-7427 Fax: 813-885-7049

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 660-141166.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 660-126352-1
Address: 481 Newburyport Avenue, ,	Due Date Requested: 1/31/2023			
City: Altamonte Springs	TAT Requested (days):			
State, Zip: FL, 32701				
Phone: 407-339-5984(Tel) 407-260-6110(Fax)	PO #:			
Email:	WO #:			
Project Name: OV423	Project #: 66018217			
Site:	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, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM5210B_BODCalc/ Biochemical Oxygen Demand	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Sweetwater Creek@Florida Ave (660-126352-1)	1/17/23	Eastern		Water			X	1	
Saltcreek@Packard Ave (660-126352-2)	1/17/23	Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/18/23 17:00	Company	Received by:	Date/Time: 1/19 800	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: DEP-Chemistry Section

Job Number: 660-126352-1

Login Number: 126352
List Number: 1
Creator: Arevalo, Maria L

List Source: Eurofins Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	