

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

OV482

JOB NUMBER

670-27835-1

Eurofins Orlando

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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Authorized for release by
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Definitions/Glossary

Client: DEP-Chemistry Section
Project/Site: OV482

Job ID: 670-27835-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

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

Case Narrative

Client: DEP-Chemistry Section
Project/Site: OV482

Job ID: 670-27835-1

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Laboratory: Eurofins Orlando

Narrative

Job Narrative 670-27835-1

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.

Revision

The report being provided is a revision of the original report sent on 10/12/2023. The report (revision 1) is being revised due to the wrong Task Assignment was associated to the samples originally.

Receipt

The samples were received on 10/3/2023 11:00 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 1.3°C

General Chemistry

Method SM5210B_BODCalc: The method blank for analytical batch 670-57506 contained Biochemical Oxygen Demand above the practical quantitation limit (PQL). Associated sample(s) were not re-extracted and/or re-analyzed because samples were now outside holding time. Samples were appropriately qualified as needed.

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

Detection Summary

Client: DEP-Chemistry Section
Project/Site: OV482

Job ID: 670-27835-1

Client Sample ID: 2442547

Lab Sample ID: 670-27835-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biochemical Oxygen Demand	5.4	V	2.0	2.0	mg/L	1		SM5210B	Total/NA

Client Sample ID: 2442546

Lab Sample ID: 670-27835-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biochemical Oxygen Demand	5.3	V	2.0	2.0	mg/L	1		SM5210B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample Results

Client: DEP-Chemistry Section
Project/Site: OV482

Job ID: 670-27835-1

Client Sample ID: 2442547

Date Collected: 10/03/23 09:50

Date Received: 10/03/23 11:00

Lab Sample ID: 670-27835-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand (SM5210B)	5.4	V	2.0	2.0	mg/L			10/04/23 13:13	1

Client Sample ID: 2442546

Date Collected: 10/03/23 10:10

Date Received: 10/03/23 11:00

Lab Sample ID: 670-27835-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand (SM5210B)	5.3	V	2.0	2.0	mg/L			10/04/23 13:23	1

QC Sample Results

Client: DEP-Chemistry Section
Project/Site: OV482

Job ID: 670-27835-1

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 670-57506/2

Matrix: Water

Analysis Batch: 57506

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	2.02		2.0	2.0	mg/L			10/04/23 12:36	1

Lab Sample ID: SCB 670-57506/4

Matrix: Water

Analysis Batch: 57506

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	2.0	U	2.0	2.0	mg/L			10/04/23 12:41	1

Lab Sample ID: USB 670-57506/1

Matrix: Water

Analysis Batch: 57506

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	2.0	U	2.0	2.0	mg/L			10/04/23 12:33	1

Lab Sample ID: LCS 670-57506/3

Matrix: Water

Analysis Batch: 57506

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	213		mg/L		107	85 - 115

Lab Sample ID: 660-132013-B-1 DU

Matrix: Water

Analysis Batch: 57506

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	430		410		mg/L		4	20

QC Association Summary

Client: DEP-Chemistry Section
Project/Site: OV482

Job ID: 670-27835-1

General Chemistry

Analysis Batch: 57506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27835-1	2442547	Total/NA	Water	SM5210B	
670-27835-2	2442546	Total/NA	Water	SM5210B	
MB 670-57506/2	Method Blank	Total/NA	Water	SM5210B	
SCB 670-57506/4	Method Blank	Total/NA	Water	SM5210B	
USB 670-57506/1	Method Blank	Total/NA	Water	SM5210B	
LCS 670-57506/3	Lab Control Sample	Total/NA	Water	SM5210B	
660-132013-B-1 DU	Duplicate	Total/NA	Water	SM5210B	

Lab Chronicle

Client: DEP-Chemistry Section
Project/Site: OV482

Job ID: 670-27835-1

Client Sample ID: 2442547

Date Collected: 10/03/23 09:50

Date Received: 10/03/23 11:00

Lab Sample ID: 670-27835-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM5210B		1	57506	AM	EET ORL	10/04/23 13:13

Client Sample ID: 2442546

Date Collected: 10/03/23 10:10

Date Received: 10/03/23 11:00

Lab Sample ID: 670-27835-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM5210B		1	57506	AM	EET ORL	10/04/23 13:23

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: OV482

Job ID: 670-27835-1

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E83018	10-26-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: DEP-Chemistry Section
Project/Site: OV482

Job ID: 670-27835-1

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

Sample Summary

Client: DEP-Chemistry Section
Project/Site: OV482

Job ID: 670-27835-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27835-1	2442547	Water	10/03/23 09:50	10/03/23 11:00
670-27835-2	2442546	Water	10/03/23 10:10	10/03/23 11:00

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670-27835

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

Contract Manager: Linda Allen/Devan Cobb
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

(850)-245-8084 / (850) 245-8078

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
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 9/13/2023

Means of Contact: Email

Task Assignment Number: OV482

Maximum Cost: **\$83.00**

Turnaround Time: 5 BD

Sample Delivery Date: 10/4/2023

Project Name/Description:

RQ-2023-10-02-27; 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

QC Instructions:

Comments:

Samples released to Contract Lab by: Victoria Schwartz Date/Time: 10-3-2023 10:58
Handel

Delivery Method: Delivered Shipping _____

Samples Accepted by: Orlando Date/Time 10-3-2023 11:00
11-9-2023

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

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05-OCT-2023 08:57

Printed: 10/5/2023 8:57:51 AM

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EVENT ID	REQUEST ID	FIELD ID	DATE SAMPLED	REFERENCE	COMPONENT	MATRIX	ANALYSIS	SAMPLE ID
CEN-DIST-202	RQ-2023-10-02	G2CE0088	04-Oct-2023 10:10	SM 52 10 B	Biochemical	W-SURF-FRH	OV-BOD-UN	2442546
CEN-DIST-202	RQ-2023-10-02	G2CE0123	03-Oct-2023 09:50	SM 52 10 B	Biochemical	W-SURF-FRH	OV-BOD-UN	2442547

Login Sample Receipt Checklist

Client: DEP-Chemistry Section

Job Number: 670-27835-1

Login Number: 27835

List Number: 1

Creator: Hartley, Tyler

List Source: Eurofins Orlando

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.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	