

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

OV545

JOB NUMBER

670-37982-1

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: OV545

Job ID: 670-37982-1

Qualifiers

General Chemistry

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

Case Narrative

Client: DEP-Chemistry Section
Project: OV545

Job ID: 670-37982-1

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Eurofins Orlando

Job Narrative 670-37982-1

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 4/11/2024 9:10 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 1.6°C.

General Chemistry

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

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Detection Summary

Client: DEP-Chemistry Section
Project/Site: OV545

Job ID: 670-37982-1

Client Sample ID: 2481629

Lab Sample ID: 670-37982-1

☐ No Detections.

Client Sample ID: 2481630

Lab Sample ID: 670-37982-2

☐ No Detections.

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This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: DEP-Chemistry Section
Project/Site: OV545

Job ID: 670-37982-1

Client Sample ID: 2481629
Date Collected: 04/10/24 09:30
Date Received: 04/11/24 09:10

Lab Sample ID: 670-37982-1
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand (SM5210B)	2.0	U	2.0	2.0	mg/L			04/11/24 12:42	1

Client Sample ID: 2481630
Date Collected: 04/10/24 09:45
Date Received: 04/11/24 09:10

Lab Sample ID: 670-37982-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand (SM5210B)	2.0	U	2.0	2.0	mg/L			04/11/24 12:35	1

QC Sample Results

Client: DEP-Chemistry Section
Project/Site: OV545

Job ID: 670-37982-1

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 670-85987/2

Matrix: Water

Analysis Batch: 85987

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	2.0	U	2.0	2.0	mg/L			04/11/24 10:26	1

Lab Sample ID: SCB 670-85987/4

Matrix: Water

Analysis Batch: 85987

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			04/11/24 10:32	1

Lab Sample ID: USB 670-85987/1

Matrix: Water

Analysis Batch: 85987

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			04/11/24 10:23	1

Lab Sample ID: LCS 670-85987/3

Matrix: Water

Analysis Batch: 85987

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	188		mg/L		95	85 - 115

Lab Sample ID: 660-135536-B-1 DU

Matrix: Water

Analysis Batch: 85987

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	290		295		mg/L		0.4	20

QC Association Summary

Client: DEP-Chemistry Section
Project/Site: OV545

Job ID: 670-37982-1

General Chemistry

Analysis Batch: 85987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-37982-1	2481629	Total/NA	Water	SM5210B	
670-37982-2	2481630	Total/NA	Water	SM5210B	
MB 670-85987/2	Method Blank	Total/NA	Water	SM5210B	
SCB 670-85987/4	Method Blank	Total/NA	Water	SM5210B	
USB 670-85987/1	Method Blank	Total/NA	Water	SM5210B	
LCS 670-85987/3	Lab Control Sample	Total/NA	Water	SM5210B	
660-135536-B-1 DU	Duplicate	Total/NA	Water	SM5210B	

Lab Chronicle

Client: DEP-Chemistry Section
Project/Site: OV545

Job ID: 670-37982-1

Client Sample ID: 2481629
Date Collected: 04/10/24 09:30
Date Received: 04/11/24 09:10

Lab Sample ID: 670-37982-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM5210B		1	85987	AM	EET ORL	04/11/24 12:42

Client Sample ID: 2481630
Date Collected: 04/10/24 09:45
Date Received: 04/11/24 09:10

Lab Sample ID: 670-37982-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM5210B		1	85987	AM	EET ORL	04/11/24 12:35

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: OV545

Job ID: 670-37982-1

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E83018	06-30-24

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Method Summary

Client: DEP-Chemistry Section
Project/Site: OV545

Job ID: 670-37982-1

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

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Sample Summary

Client: DEP-Chemistry Section
Project/Site: OV545

Job ID: 670-37982-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-37982-1	2481629	Water	04/10/24 09:30	04/11/24 09:10
670-37982-2	2481630	Water	04/10/24 09:45	04/11/24 09:10

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670-37982

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: 3/19/2024

Means of Contact: Email

Task Assignment Number: OV545

Maximum Cost: \$83.00

Turnaround Time: 5 BD

Sample Delivery Date: 4/11/2024

Project Name/Description:

RQ-2024-04-08-49;2024 SMP : El Jobean

Deliverable Number/ Parameter Group/	Sample Matrix	# of Samples	# of Containers	DEP ID #	Unit Cost	% Mark- up (if any)	Cost
Method							
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: _____ Date/Time: _____

Delivery Method: _____ Shipping _____

Samples Accepted by: Orlando Date/Time 4-11-2024 2:09 PM

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

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: SO-DIST
Project ID: SMP

Requester: Nicole Reistad
Collected By: Monica Jaeger

Field Report Prepared By: Nicole Reistad
Sampling Agency: FEP-SOROC

Location		Sam Knight Creek Trib East		Collection (comp begin or grab)		Date 04/10/24 Time 0930		Eastern Composite end		Date		Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Salt		Diss. Oxygen		3.70 mg/L		Total Res. Chlorine		A	
WIN/STORET #		G3SD0247		Temp (C)		23.8		pH		7.27		Sample Depth		0.3 m	
Latitude		Longitude		dd dms		dd dms		Salinity (ppt)		7.40		Comments		Secchi: 0.9m "S" total depth: 0.9m	
Location		Sam Knight Creek Trib West		Collection (comp begin or grab)		Date 04/10/24 Time 0945		Eastern Composite end		Date		Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Salt		Diss. Oxygen		4.86 mg/L		Total Res. Chlorine		A	
WIN/STORET #		G3SD0246		Temp (C)		23.7		pH		7.47		Sample Depth		0.3 m	
Latitude		Longitude		dd dms		dd dms		Salinity (ppt)		13.06		Comments		Secchi: 1.2m "S" total depth: 1.2m	
Location				Collection (comp begin or grab)		Date		Eastern Composite end		Date		Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				Total Res. Chlorine			
WIN/STORET #				Temp (C)				pH				Sample Depth			
Latitude		Longitude		dd dms		dd dms		Salinity (ppt)				Comments			
Location				Collection (comp begin or grab)		Date		Eastern Composite end		Date		Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				Total Res. Chlorine			
WIN/STORET #				Temp (C)				pH				Sample Depth			
Latitude		Longitude		dd dms		dd dms		Salinity (ppt)				Comments			
Location				Collection (comp begin or grab)		Date		Eastern Composite end		Date		Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				Total Res. Chlorine			
WIN/STORET #				Temp (C)				pH				Sample Depth			
Latitude		Longitude		dd dms		dd dms		Salinity (ppt)				Comments			

Relinquished By: [Signature]		Date/Time: 04/10/24 1400		Shipping Method: FedEx		Number of Coolers Shipped: 1		Received By: [Signature]		Date/Time: 0910	
Received: 4-11-24 0910 at 1.6 / 1.6 oc											

11-APR-2024 13:11

Printed: 4/11/2024 1:11:12 PM

Page 1 of 1

EVENT ID	REQUEST ID	FIELD ID	DATE SAMPLED	REFERENCE	COMPONENT	MATRIX	ANALYSIS	SAMPLE ID
SO-DIST-2024-	RQ-2024-04-08	G3SD0073	10-Apr-2024 12:15	Enterolert/QT	Enterococci-Qu	W-SURF-SLT	SD-BES-ENQ	2481633
SO-DIST-2024-	RQ-2024-04-08	G3SD0073	10-Apr-2024 12:15	SM 9222 D	Fecal	W-SURF-SLT	SD-BES-FC	2481634
SO-DIST-2024-	RQ-2024-04-08	G3SD0220	10-Apr-2024 10:50	Enterolert/QT	Enterococci-Qu	W-SURF-SLT	SD-BES-ENQ	2481635
SO-DIST-2024-	RQ-2024-04-08	G3SD0220	10-Apr-2024 10:50	SM 9222 D	Fecal	W-SURF-SLT	SD-BES-FC	2481636
SO-DIST-2024-	RQ-2024-04-08	G3SD0246	10-Apr-2024 09:45	Enterolert/QT	Enterococci-Qu	W-SURF-SLT	SD-BES-ENQ	2481632
SO-DIST-2024-	RQ-2024-04-08	G3SD0246	10-Apr-2024 09:45	SM 5210 B	Biochemical	W-SURF-SLT	OV-BOD-UN	2481630
SO-DIST-2024-	RQ-2024-04-08	G3SD0247	10-Apr-2024 09:30	Enterolert/QT	Enterococci-Qu	W-SURF-SLT	SD-BES-ENQ	2481631
SO-DIST-2024-	RQ-2024-04-08	G3SD0247	10-Apr-2024 09:30	SM 5210 B	Biochemical	W-SURF-SLT	OV-BOD-UN	2481629
SO-DIST-2024-	RQ-2024-04-08	G3SD0248	10-Apr-2024 13:00	Enterolert/QT	Enterococci-Qu	W-SURF-SLT	SD-BES-ENQ	2481637

Login Sample Receipt Checklist

Client: DEP-Chemistry Section

Job Number: 670-37982-1

Login Number: 37982

List Number: 1

Creator: Lavardera, Angelina

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.	N/A	
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	