Biological Analysis Report

NW-DIST-2013-12-03-02

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Overflow Analyses Performed By:
University of West Florida
11000 University Parkway
Pensacola, FL 32514
DOH Accreditation E71969

Event Description: **Project Greenshores**
Request ID: **RQ-2013-11-25-11**
Customer: **NW-DIST**
Project ID: **DISCRTNARY**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 308
Pensacola, FL 32502-5794
Attn: Cheryl Bunch

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Certified by: Elizabeth Miller, Environmental Manager

Date Certified: 30-DEC-2013 16:31

Abbreviations and data remark codes

CERT # - NELAP (National Environmental Laboratory Accreditation Program) Certification Number of the laboratory that performed the analysis.
LCS – Laboratory Control Sample; in the QC Failures column, this notation indicates a batch recovery failure.
MS – Matrix Spike; in the QC Failures column, this notation indicates a batch recovery failure.
RPD – Relative Percent Difference; in the QC Failures column, this notation indicates a batch failure for precision.
CCV – Continuing Calibration Verification; in the QC Failures column, this notation indicates a failure of the calibration verification check sample.
SUR – Surrogate; in the QC Failures column, this notation indicates a recovery failure for the associated surrogate.
RSD – Relative Standard Deviation expressed as a percentage.
SMP – Sample.
** - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

A - Value reported is the mean of two or more determinations
B - Results based on colony counts outside the acceptable range.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J - Estimated value
K - Actual value is known to be less than value given
L - Actual value is known to be greater than value given
N - Presumptive evidence of presence of material.
O - Sampled, but analysis lost or not performed.
Q - Sample held beyond normal holding time.
T - Value reported is less than the criterion of detection.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
V - Analyte was detected in both sample and method blank.
X - Too few individuals to calculate SCI value.
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate
Z - Colonies were too numerous to count (TNTC).

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example:
1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Precision is reported as relative percent difference unless otherwise noted.

Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published test performance acceptance criteria.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

All sample collection performed by Bureau of Laboratories staff followed the field Standard Operating Procedures adopted by reference in Rule 62-160 FAC unless otherwise noted.

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Results for NELAP accredited tests contained in this report meet the requirements specified by the National Environmental Laboratory Accreditation Conference (NELAC). All samples received were in acceptable condition and met NELAC requirements unless otherwise noted. Results generated in this report pertain to the samples collected and submitted for analysis.

All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Job: TLH-2013-12-03-38	Group: Chlorophyll/Grain Size/BOD
Job: TLH-2013-12-03-40	Group: Chlorophyll/Grain Size/BOD
Job: TLH-2013-12-03-41	Group: Overflow

Sample Location: RANGE MARKER E. OF TEXAR **Collection Date/Time: 12/02/2013 10:53 AM**

Field ID: 1 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558021	SM 5210 B	Biochemical Oxygen Demand-5 Day	2.8	AJV	mg/L	P261668	LCS
1558035	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.1		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.7			P261412	
		Chlorophyll-a, Uncorrected	3.2		ug/L	P261412	
1558049	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	1	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: 1/2 BRIDGE AND MUSCOGEE **Collection Date/Time: 12/02/2013 11:05 AM**

Field ID: 2 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558022	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.6	IJV	mg/L	P261668	LCS
1558036	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.0		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.7			P261412	
		Chlorophyll-a, Uncorrected	2.0		ug/L	P261412	
1558050	EPA 1600 (MF)	Enterococci-Membrane Filter	8	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	6	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: EAST OF PRIMARY STORM DRAIN PGS1 **Collection Date/Time: 12/02/2013 11:13 AM**

Field ID: 3 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558023	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.3	IJV	mg/L	P261668	LCS
1558037	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.9		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.7			P261412	
		Chlorophyll-a, Uncorrected	2.9		ug/L	P261412	
1558051	EPA 1600 (MF)	Enterococci-Membrane Filter	8	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	2	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: 1OOFT SOUTH OF STORM DRAIN **Collection Date/Time: 12/02/2013 11:19 AM**

Field ID: 4 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558024	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.2	IJV	mg/L	P261668	LCS
1558038	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.0		ug/L	P261412	

Field ID: 4 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558038	SM 10200 H (mod.)	Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.7			P261412	
		Chlorophyll-a, Uncorrected	3.1		ug/L	P261412	
1558052	EPA 1600 (MF)	Enterococci-Membrane Filter	8	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	13	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: END OF CHASE ST **Collection Date/Time: 12/02/2013 11:29 AM**

Field ID: 5 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558025	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	IJV	mg/L	P261668	LCS
1558039	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.4		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.7			P261412	
		Chlorophyll-a, Uncorrected	2.4		ug/L	P261412	
1558053	EPA 1600 (MF)	Enterococci-Membrane Filter	4	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	6	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: 1/2 MUSEOGEE AND HAWKSHAW 400FT FROM SHORE **Collection Date/Time: 12/02/2013 11:48 AM**

Field ID: 6 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558026	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.6	IJV	mg/L	P261668	LCS
1558040	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.5		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.7			P261412	
		Chlorophyll-a, Uncorrected	2.6		ug/L	P261412	
1558054	EPA 1600 (MF)	Enterococci-Membrane Filter	4	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	1	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: 1/2 BETWEEN BRIDGE AND PORT **Collection Date/Time: 12/02/2013 12:00 PM**

Field ID: 7 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558027	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.2	IJV	mg/L	P261668	LCS
1558041	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.8		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.7			P261412	
		Chlorophyll-a, Uncorrected	1.8		ug/L	P261412	

Field ID: 7 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558055	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	1	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: WEST OF STORMDRAIN, INSIDE ROCKS **Collection Date/Time: 12/02/2013 11:36 AM**

Field ID: 8 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558028	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.98	IJV	mg/L	P261668	LCS
1558042	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.8		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.7			P261412	
		Chlorophyll-a, Uncorrected	1.8		ug/L	P261412	
1558056	EPA 1600 (MF)	Enterococci-Membrane Filter	8	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	9	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: WEST END OF HAWKSHAW 100FT S. OF OUTFALL **Collection Date/Time: 12/02/2013 12:27 PM**

Field ID: 9 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558029	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	IJV	mg/L	P261668	LCS
1558043	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.3		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.7			P261412	
		Chlorophyll-a, Uncorrected	2.3		ug/L	P261412	
1558057	EPA 1600 (MF)	Enterococci-Membrane Filter	10	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	8	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: BETWEEN MARINA AND OUTFALL **Collection Date/Time: 12/02/2013 12:21 PM**

Field ID: 10 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558030	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	IJV	mg/L	P261668	LCS
1558044	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.8		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.8			P261412	
		Chlorophyll-a, Uncorrected	1.7		ug/L	P261412	
1558058	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	1	B	cfu/100 mL		

Field ID: 10 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: ENTRANCE OF MARINA **Collection Date/Time: 12/02/2013 12:12 PM**

Field ID: 11 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558031	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.3	IJV	mg/L	P261668	LCS
1558045	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.9		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.8			P261412	
		Chlorophyll-a, Uncorrected	1.9		ug/L	P261412	
1558059	EPA 1600 (MF)	Enterococci-Membrane Filter	2	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	1	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: 1/4 BETWEEN BRIDGE AND PORT 400FT FROM SHORE **Collection Date/Time: 12/02/2013 12:06 PM**

Field ID: 12 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558032	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.1	IJV	mg/L	P261668	LCS
1558046	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.0		ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.8			P261412	
		Chlorophyll-a, Uncorrected	1.9		ug/L	P261412	
1558060	EPA 1600 (MF)	Enterococci-Membrane Filter	4	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	5	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Sample Location: INSIDE HAWKSHAW LAGOON **Collection Date/Time: 12/02/2013 12:40 PM**

Field ID: 13 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558033	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.7	IJV	mg/L	P261668	LCS
1558047	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.2	A	ug/L	P261412	
		Phaeophytin-a	0.40	U	ug/L	P261412	
		Chlorophyll/Phaeophytin Ratio	1.6	A		P261412	
		Chlorophyll-a, Uncorrected	2.5	A	ug/L	P261412	
1558061	EPA 1600 (MF)	Enterococci-Membrane Filter	192		cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	510		cfu/100 mL		

Field ID: 13 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.
SM 10200 H (mod.): Laboratory duplicate result is 0.40 U for Phaeophytin-a. Precision data is unavailable due to the small amount of analyte in the QC sample.

Sample Location: EAST OF STORM DRAIN INSIDE PGS2 **Collection Date/Time: 12/02/2013 12:47 PM**

Field ID: 14 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1558034	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.3	IJV	mg/L	P261668	LCS
1558048	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.9		ug/L	P261413	
		Phaeophytin-a	0.40	U	ug/L	P261413	
		Chlorophyll/Phaeophytin Ratio	1.7			P261413	
		Chlorophyll-a, Uncorrected	1.9		ug/L	P261413	
1558062	EPA 1600 (MF)	Enterococci-Membrane Filter	8	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	5	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: GGA Control Sample result was 243 ppm. The control sample acceptance limits are 198 +/- 30.5 ppm. Dilution water blank exceeds method limit of 0.20 mg/L and laboratory historical limit of 0.50 mg/L.

Quality Assurance Report
Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P261412

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Chlorophyll-a, Uncorrected	0.40	U	ug/L
Phaeophytin-a	0.40	U	ug/L

Reference Method: SM 10200 H (mod.)
Batch ID: P261413

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Chlorophyll-a, Uncorrected	0.40	U	ug/L
Phaeophytin-a	0.40	U	ug/L

Reference Method: SM 5210 B
Batch ID: P261668

Component	Result	Code	Units
Biochemical Oxygen Demand-5 Day	0.53	I	mg/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P261412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	113		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P261413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	110		P	85 - 115

Reference Method: SM 5210 B
Batch ID: P261668

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Biochemical Oxygen Demand-5 Day	123		F	84 - 116

Quality Assurance Report
Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P261412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1558047	Chlorophyll/Phaeophytin Ratio	0.0	Sample	P	0 - 25
1558047	Chlorophyll-a, Corrected	5.06	Sample	P	0 - 25
1558047	Chlorophyll-a, Uncorrected	3.22	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)
Batch ID: P261413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1558183	Chlorophyll/Phaeophytin Ratio	12.5	Sample	P	0 - 25
1558183	Chlorophyll-a, Corrected	5.32	Sample	P	0 - 25
1558183	Chlorophyll-a, Uncorrected	17.2	Sample	P	0 - 25

Reference Method: SM 5210 B
Batch ID: P261668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1558021	Biochemical Oxygen Demand-5 Day	24.6	Sample	P	0 - 25

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision		
				LCS	SMP	MS
SM 10200 H (mod.)	Chlorophyll/Phaeophytin Ratio				0.0	
	Chlorophyll/Phaeophytin Ratio				12.5	
	Chlorophyll-a, Corrected	113			5.06	
	Chlorophyll-a, Corrected	110			5.32	
	Chlorophyll-a, Uncorrected				3.22	
	Chlorophyll-a, Uncorrected				17.2	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision		
				LCS	SMP	MS
SM 5210 B	Biochemical Oxygen Demand-5 Day	123			24.6	

Reference Method Descriptions

Method / NELAC Cert. #	Description	Associated Samples
EPA 1600 (MF) / E71969	Enterococci by membrane filter method by UWF Overflow Laboratory for NWD	1558049, 1558050, 1558051, 1558052, 1558053, 1558054, 1558055, 1558056, 1558057, 1558058, 1558059, 1558060, 1558061, 1558062
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry	1558035, 1558036, 1558037, 1558038, 1558039, 1558040, 1558041, 1558042, 1558043, 1558044, 1558045, 1558046, 1558047, 1558048
SM 5210 B / E31780	BOD, NOT nitrogen-inhibited	1558021, 1558022, 1558023, 1558024, 1558025, 1558026, 1558027, 1558028, 1558029, 1558030, 1558031, 1558032, 1558033, 1558034
SM 9222 D / E71969	Fecal coliforms by membrane filter method by UWF Overflow Laboratory for NWD	1558049, 1558050, 1558051, 1558052, 1558053, 1558054, 1558055, 1558056, 1558057, 1558058, 1558059, 1558060, 1558061, 1558062

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 1600 (MF)	12/02/2013			12/02/2013 15:15	UWF Lab	1558049
	12/02/2013			12/02/2013 15:18	UWF Lab	1558050
	12/02/2013			12/02/2013 15:21	UWF Lab	1558051
	12/02/2013			12/02/2013 15:24	UWF Lab	1558052
	12/02/2013			12/02/2013 15:27	UWF Lab	1558053
	12/02/2013			12/02/2013 15:30	UWF Lab	1558054
	12/02/2013			12/02/2013 15:36	UWF Lab	1558055
	12/02/2013			12/02/2013 15:42	UWF Lab	1558056
	12/02/2013			12/02/2013 15:45	UWF Lab	1558057
	12/02/2013			12/02/2013 15:48	UWF Lab	1558058
	12/02/2013			12/02/2013 15:51	UWF Lab	1558059
	12/02/2013			12/02/2013 15:57	UWF Lab	1558060
	12/02/2013			12/02/2013 16:00	UWF Lab	1558061
	12/02/2013			12/02/2013 16:03	UWF Lab	1558062
SM 10200 H (mod.)	12/03/2013	12/03/2013 13:35	Jonathan M. Woods	12/10/2013	Kim M. Spencer	1558035, 1558036, 1558037, 1558038, 1558039, 1558040, 1558041, 1558042, 1558043, 1558044, 1558045, 1558046, 1558047, 1558048
SM 5210 B	12/03/2013			12/04/2013 09:05	Rebecca Falter	1558021, 1558022, 1558023, 1558024, 1558025, 1558026, 1558027, 1558028, 1558029, 1558030, 1558031, 1558032, 1558033, 1558034
SM 9222 D	12/02/2013			12/02/2013 15:30	UWF Lab	1558049
	12/02/2013			12/02/2013 15:33	UWF Lab	1558050
	12/02/2013			12/02/2013 15:36	UWF Lab	1558051
	12/02/2013			12/02/2013 15:39	UWF Lab	1558052
	12/02/2013			12/02/2013 15:42	UWF Lab	1558053
	12/02/2013			12/02/2013 15:45	UWF Lab	1558054
	12/02/2013			12/02/2013 15:50	UWF Lab	1558055
	12/02/2013			12/02/2013 15:53	UWF Lab	1558056
	12/02/2013			12/02/2013 15:56	UWF Lab	1558057
	12/02/2013			12/02/2013 16:01	UWF Lab	1558058
	12/02/2013			12/02/2013 16:04	UWF Lab	1558059
	12/02/2013			12/02/2013 16:10	UWF Lab	1558060
	12/02/2013			12/02/2013 16:13	UWF Lab	1558061
	12/02/2013			12/02/2013 16:16	UWF Lab	1558062