

Biological Analysis Report

NW-DIST-2011-11-30-02

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

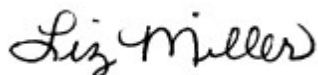
Event Description: **Project Greenshores**
Request ID: **RQ-2011-11-21-11**
Customer: **NW-DIST**
Project ID: **DISCRTNARY**

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

For additional information please contact
David D. Whiting - Administrator
Elizabeth Miller - Bench Biology
Cheryl Swanson - Taxonomy (Invertebrate & Algal)
J. Marshall Faircloth - Aquatic Toxicology
Daisys Tamayo - Microbiology
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8177

Certified by: Elizabeth Miller, Environmental Manager

Date Certified: 28-DEC-2011 09:19



NON-CONFORMANCE REPORT INCLUDED

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.
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).

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.

Job: TLH-2011-11-30-44	Group: Chlorophyll/Grain Size/BOD
Job: TLH-2011-11-30-45	Group: Chlorophyll/Grain Size/BOD
Job: TLH-2011-11-30-46	Group: Overflow
Job: TLH-2011-12-01-07	Group: Chlorophyll/Grain Size/BOD
Job: TLH-2011-12-01-08	Group: Chlorophyll/Grain Size/BOD
Job: TLH-2011-12-01-09	Group: Overflow

Sample Location: 1/2 BTW BRIDGE & PORT

Collection Date/Time: 11/29/2011 11:24 AM

Field ID: 7

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393413	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.1	I	mg/L	P233893	
1393424	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.0		ug/L	P233890	
		Phaeophytin-a	0.40	U	ug/L	P233890	
		Chlorophyll/Phaeophytin Ratio	1.7			P233890	
		Chlorophyll-a, Uncorrected	3.2		ug/L	P233890	
1393435	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: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Sample Location: 1/2 BTW MUSCOGEE + HAWKSHAWK

Collection Date/Time: 11/29/2011 01:33 PM

Field ID: 6

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393667	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.86	I	mg/L	P233894	
1393670	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.1	J	ug/L	P233909	
		Phaeophytin-a	0.40	UJ	ug/L	P233909	
		Chlorophyll/Phaeophytin Ratio	1.7	J		P233909	
		Chlorophyll-a, Uncorrected	2.1	J	ug/L	P233909	
1393673	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 10200 H (mod.): See nonconformance report #3972.

Sample Location: 1/4 BTW BRIDGE & PORT

Collection Date/Time: 11/29/2011 11:35 AM

Field ID: 12

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393418	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.6	I	mg/L	P233893	
1393429	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.9		ug/L	P233890	
		Phaeophytin-a	0.40	U	ug/L	P233890	
		Chlorophyll/Phaeophytin Ratio	1.7			P233890	
		Chlorophyll-a, Uncorrected	3.1		ug/L	P233890	
1393440	EPA 1600 (MF)	Enterococci-Membrane Filter	2	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	2	B	cfu/100 mL		

Ref. Method and Comment:

SM 5210 B: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Sample Location: 100 FT SOUTH OF STORM DRAIN

Collection Date/Time: 11/29/2011 02:00 PM

Field ID: 4

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393665	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.8	I	mg/L	P233894	
1393668	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.5	Q	ug/L	P233909	
		Phaeophytin-a	0.42	UQ	ug/L	P233909	
		Chlorophyll/Phaeophytin Ratio	1.7	Q		P233909	

Field ID: 4

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393668	SM 10200 H (mod.)	Chlorophyll-a, Uncorrected	2.7	Q	ug/L	P233909	
1393671	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	1	U	cfu/100 mL		

Ref. Method and Comment:

SM 10200 H (mod.): See nonconformance report #3972.

Sample Location: BTW MARINA & OUTFALL

Collection Date/Time: 11/29/2011 12:40 PM

Field ID: 10

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393416	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.0	I	mg/L	P233893	
1393427	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.8		ug/L	P233890	
		Phaeophytin-a	0.42	U	ug/L	P233890	
		Chlorophyll/Phaeophytin Ratio	1.7			P233890	
		Chlorophyll-a, Uncorrected	2.9		ug/L	P233890	
1393438	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	1	U	cfu/100 mL		

Ref. Method and Comment:

SM 5210 B: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Sample Location: EAST OF PRIMARY STORM DRAIN

Collection Date/Time: 11/29/2011 02:10 PM

Field ID: 3

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393412	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.2	I	mg/L	P233893	
1393423	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.0		ug/L	P233639	
		Phaeophytin-a	0.40	U	ug/L	P233639	
		Chlorophyll/Phaeophytin Ratio	1.6			P233639	
		Chlorophyll-a, Uncorrected	3.4		ug/L	P233639	
1393434	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	2	B	cfu/100 mL		

Ref. Method and Comment:

SM 5210 B: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Sample Location: INSIDE HAWKSHAW

Collection Date/Time: 11/29/2011 01:10 PM

Field ID: 13

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393419	SM 5210 B	Biochemical Oxygen Demand-5 Day	2.2		mg/L	P233893	
1393430	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.0		ug/L	P233890	
		Phaeophytin-a	0.82	I	ug/L	P233890	
		Chlorophyll/Phaeophytin Ratio	1.5			P233890	
		Chlorophyll-a, Uncorrected	2.6		ug/L	P233890	
1393441	EPA 1600 (MF)	Enterococci-Membrane Filter	10	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	2	B	cfu/100 mL		

Ref. Method and Comment:

SM 5210 B: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Sample Location: PEN BAY - END OF CHASE ST .

Collection Date/Time: 11/29/2011 01:55 PM

Field ID: 5

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393666	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.59	I	mg/L	P233894	
1393669	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.5	Q	ug/L	P233909	
		Phaeophytin-a	0.42	UQ	ug/L	P233909	
		Chlorophyll/Phaeophytin Ratio	1.7	Q		P233909	
		Chlorophyll-a, Uncorrected	2.6	Q	ug/L	P233909	
1393672	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 10200 H (mod.): See nonconformance report #3972.

Sample Location: PEN BAY . RANGE MARKER E.OF TEXAR

Collection Date/Time: 11/29/2011 10:40 AM

Field ID: 1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393410	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.5	I	mg/L	P233893	
1393421	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.0		ug/L	P233639	
		Phaeophytin-a	0.40	U	ug/L	P233639	
		Chlorophyll/Phaeophytin Ratio	1.7			P233639	
		Chlorophyll-a, Uncorrected	3.1		ug/L	P233639	
1393432	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: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Sample Location: PENSACOLA BAY

Collection Date/Time: 11/29/2011 11:49 AM

Field ID: 11

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393417	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.3	I	mg/L	P233893	
1393428	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.7		ug/L	P233890	
		Phaeophytin-a	0.40	U	ug/L	P233890	
		Chlorophyll/Phaeophytin Ratio	1.7			P233890	
		Chlorophyll-a, Uncorrected	2.8		ug/L	P233890	
1393439	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: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Sample Location: PENSACOLA BAY

Collection Date/Time: 11/29/2011 10:59 AM

Field ID: 2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393411	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.3	I	mg/L	P233893	
1393422	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.3		ug/L	P233639	
		Phaeophytin-a	0.40	U	ug/L	P233639	
		Chlorophyll/Phaeophytin Ratio	1.7			P233639	
		Chlorophyll-a, Uncorrected	3.6		ug/L	P233639	
1393433	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		

Field ID: 2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393433	SM 9222 D	Fecal Coliforms-Membrane Filter	1	B	cfu/100 mL		

Ref. Method and Comment:

SM 5210 B: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Sample Location: PGS SITE 2- E . OF STORM DRAIN

Collection Date/Time: 11/29/2011 01:24 PM

Field ID: 14

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393420	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.6	I	mg/L	P233894	
1393431	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.8		ug/L	P233890	
		Phaeophytin-a	0.40	U	ug/L	P233890	
		Chlorophyll/Phaeophytin Ratio	1.7			P233890	
		Chlorophyll-a, Uncorrected	1.9		ug/L	P233890	
1393442	EPA 1600 (MF)	Enterococci-Membrane Filter	2	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	1	U	cfu/100 mL		

Sample Location: W. OF STORM DRAIN INSIDE ROOK

Collection Date/Time: 11/29/2011 01:43 PM

Field ID: 8

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393414	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.3	I	mg/L	P233893	
1393425	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.9		ug/L	P233890	
		Phaeophytin-a	0.40	U	ug/L	P233890	
		Chlorophyll/Phaeophytin Ratio	1.6			P233890	
		Chlorophyll-a, Uncorrected	2.1		ug/L	P233890	
1393436	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: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Sample Location: WEST END OF HAWKSHAW

Collection Date/Time: 11/29/2011 01:02 PM

Field ID: 9

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1393415	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	I	mg/L	P233893	
1393426	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.6		ug/L	P233890	
		Phaeophytin-a	0.40	U	ug/L	P233890	
		Chlorophyll/Phaeophytin Ratio	1.7			P233890	
		Chlorophyll-a, Uncorrected	2.8		ug/L	P233890	
1393437	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	1	U	cfu/100 mL		

Ref. Method and Comment:

SM 5210 B: Dilution water blank exceeds method limit of 0.20 mg/L but is within laboratory historical limit of 0.50 mg/L.

Non-Conformance Report

NCR ID: 3972

Event(s)

Job(s)

Sample(s)

Test(s)

Non-Conformance Report

NCR ID: 3972

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
NW-DIST-2011-11-30-02	TLH-2011-12-01-08	1393668	
NW-DIST-2011-11-30-02	TLH-2011-12-01-08	1393669	
NW-DIST-2011-11-30-02	TLH-2011-12-01-08	1393670	

NCR Type: ANALYSIS

NCR Category: Holding Time

- Observation: The samples were in the process of being filtered within hold time (on 12/01/11) when the fire alarm went off and we had to evacuate the lab. This happened two times in a row. One sample (Field ID 6) was left in the filtering funnel for 1 ½ hours before it could be folded and put away. There was not enough sample left in the bottle to re-filter it. The other two samples (Field IDs 4 & 5) were also left in the filtering funnels for 1 ½ hours, but there was enough sample left in their bottles to re-filter them.
- Resolution: The filter time for 6 is 1320 EST, so it will not be Q qualified. It will be J qualified because it was exposed to light for too long. Samples 4 & 5 will be Q qualified because their filter time was 1455, which was out of hold. The client, Cheryl Bunch, was contacted.

Authorised by/Date: David Whiting 12/5/2011

NCR ID: 3977

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
NW-DIST-2011-11-30-02			

NCR Type: SHIPPING/RECEIVING

NCR Category: Receiving

- Observation: 1) Customer shipped containers for 14 sites according to the fieldsheet. On 11/30/11 lab received containers for 11 sites (4 coolers).
Field IDs of missing containers: 4, 5, and 6
- Resolution: 1) Customer was notified by A. Shaik (Frank Butera). The 11 sites were logged in.
2) When the missing cooler arrived the analysts were notified immediately of expiring samples. The 3 sites were logged in.

Authorised by/Date: Kathryn Brackett 12/6/2011

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry Tim Fitzpatrick (850) 245-8085
Biology David D. Whiting (850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P233639

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: P233890

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

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P233890

Component	Result	Code	Units
Phaeophytin-a	0.40	U	ug/L

Reference Method: SM 10200 H (mod.)
Batch ID: P233909

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: P233893

Component	Result	Code	Units
Biochemical Oxygen Demand-5 Day	0.30	I	mg/L

Reference Method: SM 5210 B
Batch ID: P233894

Component	Result	Code	Units
Biochemical Oxygen Demand-5 Day	0.20	U	mg/L

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P233639

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1393404	Chlorophyll-a, Uncorrected	0.701	Sample	P	0 - 25
1393404	Phaeophytin-a	0.0202	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)
Batch ID: P233890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1393570	Chlorophyll-a, Uncorrected	7.86	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)
Batch ID: P233909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1393680	Chlorophyll-a, Uncorrected	10.9	Sample	P	0 - 25

Quality Assurance Report Precision

Reference Method: SM 5210 B
 Batch ID: P233894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1393483	Biochemical Oxygen Demand-5 Day	16.0	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	LCS	Precision SMP	MS
SM 10200 H (mod.)	Chlorophyll-a, Uncorrected				0.701	
	Chlorophyll-a, Uncorrected				7.86	
	Chlorophyll-a, Uncorrected				10.9	
	Phaeophytin-a				0.0202	
SM 5210 B	Biochemical Oxygen Demand-5 Day				16.0	

Reference Method Descriptions

Method / NELAC Cert. #	Description
EPA 1600 (MF) / E71969	Enterococci by membrane filter method by UWF Overflow Laboratory for NWD
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
SM 5210 B / E31780	BOD, NOT nitrogen-inhibited
SM 9222 D / E71969	Fecal coliforms by membrane filter method by UWF Overflow Laboratory for NWD

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 1600 (MF)	11/29/2011			11/29/2011 16:33	UWF Lab	1393432
	11/29/2011			11/29/2011 16:36	UWF Lab	1393433
	11/29/2011			11/29/2011 16:39	UWF Lab	1393434
	11/29/2011			11/29/2011 16:42	UWF Lab	1393671
	11/29/2011			11/29/2011 16:45	UWF Lab	1393672
	11/29/2011			11/29/2011 16:48	UWF Lab	1393673
	11/29/2011			11/29/2011 16:51	UWF Lab	1393435
	11/29/2011			11/29/2011 17:00	UWF Lab	1393436
	11/29/2011			11/29/2011 17:06	UWF Lab	1393437
	11/29/2011			11/29/2011 17:09	UWF Lab	1393438
	11/29/2011			11/29/2011 17:12	UWF Lab	1393439
	11/29/2011			11/29/2011 17:15	UWF Lab	1393440
	11/29/2011			11/29/2011 17:18	UWF Lab	1393441
	11/29/2011			11/29/2011 17:21	UWF Lab	1393442
SM 10200 H (mod.)	11/30/2011	11/30/2011 14:00	Jacqueline Savage	12/02/2011	Kim M. Spencer	1393421, 1393422, 1393423
	11/30/2011	11/30/2011 14:00	Jacqueline Savage	12/08/2011	Jacqueline Savage	1393424, 1393425, 1393426, 1393427, 1393428, 1393429, 1393430, 1393431
	12/01/2011	12/01/2011 13:20	Meiqin Chen	12/09/2011	Jacqueline Savage	1393670
	12/01/2011	12/01/2011 14:55	Jacqueline Savage	12/09/2011	Jacqueline Savage	1393668, 1393669
SM 5210 B	11/30/2011			12/01/2011 07:45	Jonathan M. Woods	1393410, 1393411, 1393412, 1393413, 1393414, 1393415, 1393416, 1393417, 1393418, 1393419, 1393420
SM 9222 D	12/01/2011			12/01/2011 12:55	Jonathan M. Woods	1393665, 1393666, 1393667
	11/29/2011			11/29/2011 16:58	UWF Lab	1393432
	11/29/2011			11/29/2011 17:01	UWF Lab	1393433
	11/29/2011			11/29/2011 17:04	UWF Lab	1393434
	11/29/2011			11/29/2011 17:08	UWF Lab	1393671
	11/29/2011			11/29/2011 17:11	UWF Lab	1393672
	11/29/2011			11/29/2011 17:14	UWF Lab	1393673
	11/29/2011			11/29/2011 17:17	UWF Lab	1393435
	11/29/2011			11/29/2011 17:25	UWF Lab	1393436
	11/29/2011			11/29/2011 17:31	UWF Lab	1393437
	11/29/2011			11/29/2011 17:34	UWF Lab	1393438
	11/29/2011			11/29/2011 17:37	UWF Lab	1393439
	11/29/2011			11/29/2011 17:40	UWF Lab	1393440
	11/29/2011			11/29/2011 17:43	UWF Lab	1393441
	11/29/2011			11/29/2011 17:46	UWF Lab	1393442