

Biological Analysis Report

WTRSHD-MGT-2011-11-09-02

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

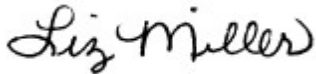
Event Description: **TMDL Sampling: Mid Suw; Ich; SF, Stein; Tay; Ock**
Request ID: **RQ-2011-10-31-38**
Customer: **WTRSHD-MGT**
Project ID: **GRNT-10608**

Send Reports to:
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Certified by: Elizabeth Miller, Environmental Manager

Date Certified: 02-DEC-2011 14:01



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.

* - Item was outside the QC Limits.

** - 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-2011-11-09-57

Job: TLH-2011-11-09-59

Job: TLH-2011-11-09-61

Group: Chlorophyll/Grain Size/BOD

Group: Chlorophyll/Grain Size/BOD

Group: Microbiology

Sample Location: LAKE BLUE SPRING**Collection Date/Time: 11/08/2011 01:18 PM****Field ID: LAKE BLUE SPRING****Matrix: W-OTHER**

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1390195	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.37	I		mg/L	E31780
1390197	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.55	U		ug/L	
		Phaeophytin-a	0.40	U		ug/L	
1390199	SM 9222 D	Fecal Coliforms-Membrane Filter	56	Q		cfu/100 mL	

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)**Batch ID: P233252****Included Lab Sample IDs: 1390197**

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

Reference Method: SM 5210 B**Batch ID: P232994****Included Lab Sample IDs: 1390195**

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

Reference Method: SM 9222 D**Batch ID: P232901****Included Lab Sample IDs: 1390199**

Component	Result	Code	Units
Fecal Coliforms-Membrane Filter	1	U	cfu/100 mL

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)**Batch ID: P233252****Included Lab Sample IDs: 1390197**

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1390200	Chlorophyll-a, Corrected	1.25	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, Corrected				1.25	

Reference Method Descriptions

Method:

SM 10200 H (mod.)
SM 5210 B
SM 9222 D

Description

Phytoplankton chlorophyll-a (corrected for phaeophytin) and phaeophytin by spectrophotometry
BOD, NOT nitrogen-inhibited
Fecal coliforms by membrane filter method - non-chlorinated water systems

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 10200 H (mod.)	11/09/2011	11/09/2011 13:35	Meiqin Chen	11/18/2011	Meiqin Chen	1390197
SM 5210 B	11/09/2011			11/10/2011 08:30	Jonathan M. Woods	1390195
SM 9222 D	11/09/2011	11/09/2011 13:20	Kim M. Spencer	11/10/2011 13:45	Kim M. Spencer	1390199