

Biological Analysis Report

WTRSHD-MGT-2012-09-21-03

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

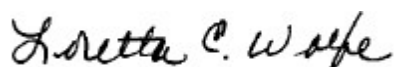
Event Description: **SPRG1207**
Request ID: **RQ-2012-08-27-14**
Customer: **WTRSHD-MGT**
Project ID: **SPG_QTR_WQ**

Send Reports to:
FDEP Ground Water Management Section
2600 Blair Stone Road
Tallahassee, FL 32399-2400
Attn: Gary Maddox

For additional information please contact
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Certified by: Loretta E. Wolfe, Environmental Manager

Date Certified: 09-OCT-2012 10:37



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.

Sample Location: FERN HAMMOCK SPR**Collection Date/Time: 09/21/2012 10:29 AM****Field ID: FERN HAMMOCK SPR****Matrix: W-OTHER**

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1456042	EPA 1600	Enterococci-Membrane Filter	300		cfu/100 mL	P245034	
	SM 9222 D	Fecal Coliforms-Membrane Filter	240		cfu/100 mL	P245034	

Quality Assurance Report Method Blank Results

Reference Method: EPA 1600**Batch ID: P245034**

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

Reference Method: SM 9222 D**Batch ID: P245034**

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

Quality Assurance Report Precision

Reference Method: EPA 1600**Batch ID: P245034**

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1455787	Enterococci-Membrane Filter	14.6	Sample	P	0 - 50

Reference Method: SM 9222 D**Batch ID: P245034**

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1455999	Fecal Coliforms-Membrane Filter	7.59	Sample	P	0 - 50

* 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
EPA 1600	Enterococci-Membrane Filter			14.6
SM 9222 D	Fecal Coliforms-Membrane Filter			7.59

Reference Method Descriptions

Method / NELAC Cert. #	Description	Associated Samples
EPA 1600 / E31780	Enterococci by membrane filter method using 24 hour mEI agar - non-chlorinated water systems	1456042

Reference Method Descriptions

Method / NELAC Cert. #	Description	<u>Associated Samples</u>
SM 9222 D / E31780	Fecal coliforms by membrane filter method - non-chlorinated water systems	1456042

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 1600	09/21/2012	09/21/2012 16:25	Meiqin Chen	09/22/2012 15:10	Kim M. Spencer	1456042
SM 9222 D	09/21/2012	09/21/2012 16:25	Meiqin Chen	09/22/2012 15:10	Kim M. Spencer	1456042