Chemical Analysis Report

WTRSHD-MGT-2012-09-21-02

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

Event Description: **Alachua County - Santa Fe GW Sampling**
Request ID: **RQ-2012-09-17-36**
Customer: **WTRSHD-MGT**
Project ID: **TMDL**

Send Reports to:
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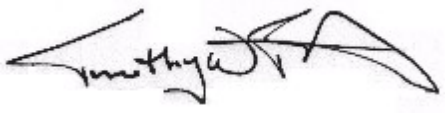
Certified by: Timothy Fitzpatrick, Program Administrator

Date Certified: 03-OCT-2012 09:07



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: AAA 6125 **Collection Date/Time: 09/20/2012 03:45 PM**

Field ID: AAA 6125 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455875	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.010	U	ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Sample Location: BLISS **Collection Date/Time: 09/20/2012 11:17 AM**

Field ID: AAK 7037 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455866	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.11		ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Sample Location: GORESBERG **Collection Date/Time: 09/20/2012 03:22 PM**

Field ID: AAE 0815 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455873	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.010	U	ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Sample Location: JOAN POCKLINGTON **Collection Date/Time: 09/20/2012 11:55 AM**

Field ID: AAK 7014 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455867	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.010	U	ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Sample Location: LEWIS **Collection Date/Time: 09/20/2012 02:16 PM**

Field ID: AAE 1420 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455871	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.088		ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Sample Location: LULIE POCKLINGTON **Collection Date/Time: 09/20/2012 01:10 PM**

Field ID: AAK 7013 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455868	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.010	U	ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Sample Location: MAIN **Collection Date/Time: 09/20/2012 08:50 AM**

Field ID: MAIN Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455874	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.010	U	ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Sample Location: MAJORS **Collection Date/Time: 09/20/2012 03:07 PM**

Field ID: AAA 6137 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455872	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.010	U	ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Sample Location: NEWBERRY CEMETERY **Collection Date/Time: 09/20/2012 01:37 PM**

Field ID: AAK 7015 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455869	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.041	I	ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Sucralose result confirmed in re-extraction. Insufficient sample to perform duplicate matrix spikes.

Sample Location: SANTA FE HILLS **Collection Date/Time: 09/20/2012 10:12 AM**

Field ID: AAK 7044 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455865	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.010	U	ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Sample Location: TRULUCK **Collection Date/Time: 09/20/2012 02:00 PM**

Field ID: AAE 1421 Matrix: W-OTHER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1455870	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.010	U	ug/L	P244615	

Ref. Method and Comment:
DEP SOP: LC-001-2 (based on EPA 8321B): Insufficient sample to perform duplicate matrix spikes.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: LC-001-2 (based on EPA 8321B)
Batch ID: P244615

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-2 (based on EPA 8321B)
Batch ID: P244615

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	59.6	58.4	P/P	40 - 130

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-2 (based on EPA 8321B)
Batch ID: P244615

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1456024	Sucralose	51.2		P	40 - 130

Quality Assurance Report
Precision

Reference Method: DEP SOP: LC-001-2 (based on EPA 8321B)
Batch ID: P244615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Sucralose	2.03	LCS	P	0 - 30

* 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
Surrogates

Lab Sample ID: 1455865
Field Sample ID: AAK 7044

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	51.7	P	40 - 150

Lab Sample ID: 1455866
Field Sample ID: AAK 7037

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	58.7	P	40 - 150

Lab Sample ID: 1455867
Field Sample ID: AAK 7014

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	84.5	P	40 - 150

Lab Sample ID: 1455868
Field Sample ID: AAK 7013

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	74.5	P	40 - 150

Quality Assurance Report
Surrogates

Lab Sample ID: 1455869
Field Sample ID: AAK 7015

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	53.4	P	40 - 150

Lab Sample ID: 1455870
Field Sample ID: AAE 1421

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	60.6	P	40 - 150

Lab Sample ID: 1455871
Field Sample ID: AAE 1420

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	66.7	P	40 - 150

Lab Sample ID: 1455872
Field Sample ID: AAA 6137

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	56.1	P	40 - 150

Lab Sample ID: 1455873
Field Sample ID: AAE 0815

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	66.9	P	40 - 150

Lab Sample ID: 1455874
Field Sample ID: MAIN

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	54.6	P	40 - 150

Lab Sample ID: 1455875
Field Sample ID: AAA 6125

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	60.0	P	40 - 150

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: LC-001-2 (based on EPA 8321B)
Run ID: A47144
Included Lab Sample IDs: 1455865, 1455866, 1455867, 1455868, 1455869, 1455870, 1455871, 1455872, 1455873, 1455874, 1455875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	89.6	102	P/P	70 - 140
Sucralose	94.4	89.6	P/P	70 - 140
Sucralose	95.6	94.4	P/P	70 - 140

Quality Assurance Report
Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery	Precision		
					LCS	SMP	MS
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose	59.6	58.4	51.2	2.03		

Reference Method Descriptions

Method / NELAC Cert. #	Description	Associated Samples
DEP SOP: LC-001-2 (based on EPA 8321B) / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1455865, 1455866, 1455867, 1455868, 1455869, 1455870, 1455871, 1455872, 1455873, 1455874, 1455875

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-2 (based on EPA 8321B)	09/21/2012	09/24/2012	Hoor Shaik	09/24/2012	S. M. Reddy	1455865, 1455866, 1455867, 1455868, 1455869, 1455870, 1455871, 1455872, 1455873, 1455874, 1455875