

Chemical Analysis Report

WTRSHD-MGT-2012-07-16-01

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

Event Description: **Wakulla Storm-Event Sampling**

Request ID: **RQ-2012-07-02-22**

Customer: **WTRSHD-MGT**

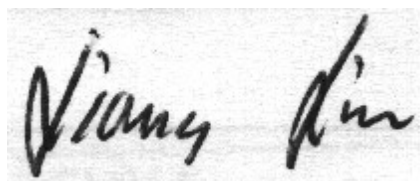
Project ID: **STORM-EVNT**

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

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 30-JUL-2012 10:28

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

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.

Job: TLH-2012-07-16-08

Job: TLH-2012-07-16-09

Job: TLH-2012-07-16-10

Group: Nutrients

Group: Metals

Group: Pesticides

Sample Location: 67**Collection Date/Time: 07/16/2012 09:40 AM****Field ID: WAKULLA SPRING****Matrix: W-SURF-FRH**

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1441276	EPA 180.1 Rev. 2.0	Turbidity	0.30		NTU	P242081	
	EPA 300.0 Rev. 2.1	Chloride	8.2		mg Cl/L	P242268	
		Sulfate	11		mg SO4/L	P242269	
	SM 2120 B	Color (true)	14		PCU	P242073	
	SM 2320 B-97	Alkalinity	142		mg CaCO3/L	P242342	
	SM 2540 C-97	TDS	177		mg/L	P242329	
1441277	EPA 350.1 Rev. 2.0	Ammonia-N	0.010	U	mg N/L	P242080	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.090	I	mg N/L	P242229	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.50		mg N/L	P242186	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P242198	
	SM 5310 B-00	Organic Carbon	1.9	I	mg C/L	P242300	
1441278	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.028		mg P/L	P242112	
1441279	EPA 200.7 Rev. 4.4	Calcium	47.6		mg/L	P242211	
		Magnesium	9.61		mg/L	P242211	
		Potassium	0.58	I	mg/L	P242211	
		Sodium	5.2		mg/L	P242211	
	EPA 200.8 Rev. 5.4	Boron**	17.9		ug/L	P242219	
1441280	DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose**	0.010	U	ug/L	P242052	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Chloride: One of the matrix spike recoveries is unavailable due to high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: LC-001-2 (based on EPA 8321B)**Batch ID: P242052**

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 180.1 Rev. 2.0**Batch ID: P242081**

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4**Batch ID: P242211**

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L

Reference Method: EPA 200.8 Rev. 5.4**Batch ID: P242219**

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P242219

Component	Result	Code	Units
Boron	2.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P242268

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P242269

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P242080

Component	Result	Code	Units
Ammonia-N	0.010	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P242229

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P242186

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P242198

Component	Result	Code	Units
Total-P	0.004	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P242112

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: SM 2120 B

Batch ID: P242073

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97

Batch ID: P242342

Component	Result	Code	Units
Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-97

Batch ID: P242329

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 5310 B-00

Batch ID: P242300

Component	Result	Code	Units
Organic Carbon	1.0	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

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

Batch ID: P242052

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	60.4	62.8	P/P	40 - 130

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P242211

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Magnesium	99.4		P	85 - 115
Potassium	101		P	85 - 115
Sodium	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P242219

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Boron	99.1		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P242268

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P242269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.5		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P242080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P242229

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	102		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P242186

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P242198

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P242112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	95.2		P	90 - 110

Reference Method: SM 2320 B-97

Batch ID: P242342

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alkalinity	98.2		P	85 - 115

Reference Method: SM 5310 B-00

Batch ID: P242300

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	100		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

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

Batch ID: P242052

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1440805	Sucralose	70.0	67.6	P/P	40 - 130

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P242211

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P242211

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1440173	Calcium	99.7		P	80 - 120
1440173	Magnesium	101		P	80 - 120
1440173	Potassium	101		P	80 - 120
1440173	Sodium	98.3		P	80 - 120
1441279	Calcium	104		P	80 - 120
1441279	Magnesium	98.8		P	80 - 120
1441279	Potassium	103		P	80 - 120
1441279	Sodium	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P242219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1440173	Boron	104	97.1	P/P	80 - 120
1441279	Boron	97.1		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P242268

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1441189	Chloride	95.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P242269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1441189	Sulfate	97.2		P	90 - 110
1441406	Sulfate	96.8	96.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P242080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1441277	Ammonia-N	94.7	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P242229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1440785	Kjeldahl Nitrogen	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P242186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1441163	NO2NO3-N	99.5	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P242198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1441190	Total-P	105	108	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P242112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1441278	O-Phosphate-P	93.0	96.3	P/P	90 - 110

Reference Method: SM 5310 B-00

Batch ID: P242300

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1441410	Organic Carbon	97.4	97.3	P/P	85 - 115

Quality Assurance Report Precision

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

Batch ID: P242052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1440805	Sucralose	2.30	Spike	P	0 - 30
LFB	Sucralose	3.90	LCS	P	0 - 30

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P242081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441316	Turbidity	0.951	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P242211

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1440173	Calcium	1.04	Sample	P	0 - 20
1440173	Magnesium	0.219	Sample	P	0 - 20
1440173	Potassium	0.738	Sample	P	0 - 20
1440173	Sodium	1.18	Sample	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P242219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1440173	Boron	1.32	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P242268

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441406	Chloride	1.76	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P242269

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441406	Sulfate	0.0495	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P242080

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441277	Ammonia-N	5.24	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P242229

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1440785	Kjeldahl Nitrogen	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P242186

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441163	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P242198

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441190	Total-P	2.36	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P242112

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441278	O-Phosphate-P	2.70	Spike	P	0 - 20

Reference Method: SM 2120 B

Batch ID: P242073

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441408	Color (true)	8.41	Sample	P	0 - 20

Reference Method: SM 2320 B-97

Batch ID: P242342

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441104	Alkalinity	0.336	Sample	P	0 - 20
1441171	Alkalinity	0.0779	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2540 C-97

Batch ID: P242329

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441171	TDS	1.56	Sample	P	0 - 10

Reference Method: SM 5310 B-00

Batch ID: P242300

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1441410	Organic Carbon	0.0670	Spike	P	0 - 20

* 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: 1441280

Field Sample ID: WAKULLA SPRING

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose-d6	43.8	P	40 - 150

Quality Assurance Report Calibration Verification

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

Run ID: A46070

Included Lab Sample IDs: 1441280

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	101	88.8	P/P	70 - 140

Reference Method: SM 2120 B

Run ID: A46080

Included Lab Sample IDs: 1441276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	104	P/P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A46083

Included Lab Sample IDs: 1441277

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	105	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A46084

Included Lab Sample IDs: 1441276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A46084

Included Lab Sample IDs: 1441276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A46095

Included Lab Sample IDs: 1441278

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A46130

Included Lab Sample IDs: 1441277

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.6	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A46135

Included Lab Sample IDs: 1441277

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.0	95.0	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A46139

Included Lab Sample IDs: 1441279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	103	P/P	90 - 110
Magnesium	100	99.8	P/P	90 - 110
Potassium	100	101	P/P	90 - 110
Sodium	101	99.8	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A46142

Included Lab Sample IDs: 1441279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	96.8	95.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A46144

Included Lab Sample IDs: 1441277

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A46164

Included Lab Sample IDs: 1441276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	101	P/P	90 - 110
Sulfate	99.4	95.7	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A46178

Included Lab Sample IDs: 1441277

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	100	103	P/P	85 - 115

Reference Method: SM 2320 B-97

Run ID: A46196

Included Lab Sample IDs: 1441276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alkalinity	97.3	99.4	P/P	85 - 115

* 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		LCS	Precision SMP	MS
DEP SOP: LC-001-2 (based on EPA 8321B)	Sucralose	60.4	62.8	70.0	67.6	3.90		2.30
EPA 180.1 Rev. 2.0	Turbidity						0.951	
EPA 200.7 Rev. 4.4	Calcium	103		99.7	104		1.04	
	Magnesium	99.4		101	98.8		0.219	
	Potassium	101		101	103		0.738	
	Sodium	101		98.3	101		1.18	
EPA 200.8 Rev. 5.4	Boron	99.1		104	97.1	97.1	1.32	
EPA 300.0 Rev. 2.1	Chloride	99.6		95.0				1.76
	Sulfate	98.5		96.8	96.7	97.2		0.0495
EPA 350.1 Rev. 2.0	Ammonia-N	97.0		94.7	99.8			5.24
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		100	100			0.0
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5		99.5	98.5			1.01
EPA 365.1 Rev. 2.0	Total-P	104		105	108			2.36
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	95.2		93.0	96.3			2.70
SM 2120 B	Color (true)						8.41	
SM 2320 B-97	Alkalinity	98.2					0.336	
							0.0779	
SM 2540 C-97	TDS						1.56	
SM 5310 B-00	Organic Carbon	100		97.4	97.3			0.0670

Reference Method Descriptions

Method / NELAC Cert. # Description

Associated Samples

Reference Method Descriptions

Method / NELAC Cert. #	Description	<u>Associated Samples</u>
DEP SOP: LC-001-2 (based on EPA 8321B) / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1441280
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1441276
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1441279
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1441279
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1441276
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1441276
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1441277
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1441277
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1441277
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1441277
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1441278
SM 2120 B / E31780	True Color measured at 450 nm or Apparent Color	1441276
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1441276
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1441276
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1441277

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)	07/16/2012	07/16/2012	Hoor Shaik	07/17/2012	S. M. Reddy	1441280
EPA 180.1 Rev. 2.0	07/16/2012			07/17/2012 16:07	Bryan A. Werth	1441276
EPA 200.7 Rev. 4.4	07/16/2012	07/17/2012	Elliott D. Healy	07/19/2012	Joshua Ayres	1441279
EPA 200.8 Rev. 5.4	07/16/2012	07/17/2012	Elliott D. Healy	07/19/2012	Charles J. Peterson	1441279
EPA 300.0 Rev. 2.1	07/16/2012			07/20/2012	Gary Dearman	1441276
EPA 350.1 Rev. 2.0	07/16/2012			07/17/2012	Peter D. Kaus	1441277
EPA 351.2 Rev. 2.0	07/16/2012	07/19/2012	Christopher Armour	07/20/2012	Bryan A. Werth	1441277
EPA 353.2 Rev. 2.0	07/16/2012			07/19/2012	Sima Feizi	1441277
EPA 365.1 Rev. 2.0	07/16/2012	07/18/2012	Megan E. Faircloth	07/19/2012	Megan E. Faircloth	1441277
EPA 365.1 Rev. 2.0 dissolved	07/16/2012			07/17/2012 15:31	Pallavi R. Gadwal	1441278
SM 2120 B	07/16/2012			07/17/2012 14:53	Rochelle Y Jackson	1441276
SM 2320 B-97	07/16/2012			07/24/2012	Dale L. Simmons	1441276
SM 2540 C-97	07/16/2012			07/18/2012	Yijie Li	1441276
SM 5310 B-00	07/16/2012			07/23/2012	Rochelle Y Jackson	1441277