

Chemical Analysis Report

WTRSHD-MGT-2012-02-03-01

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

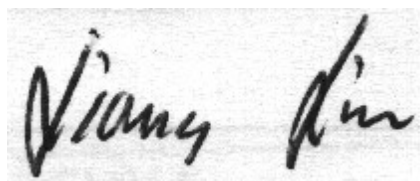
Event Description: **TMDL Sampling - Merritts Mill Pond SPRINGS**
Request ID: **RQ-2012-01-23-36**
Customer: **WTRSHD-MGT**
Project ID: **GRNT-10608**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd.
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 17-FEB-2012 15:54

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.

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-2012-02-03-26

Group: Nutrients

Job: TLH-2012-02-03-27

Group: Metals

Sample Location: GATOR HOLE SPRING**Collection Date/Time: 02/02/2012 03:01 PM****Field ID: GATOR HOLE SPRING****Matrix: W-OTHER**

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1406395	EPA 180.1 Rev. 2.0	Turbidity	0.50		NTU	P235691	
	EPA 300.0 Rev. 2.1	Chloride	6.4		mg Cl/L	P235983	
		Sulfate	2.1		mg SO4/L	P235985	
	SM 2120 B	Color (true)	2.5	U	PCU	P235693	
	SM 2320 B-97	Alkalinity	140	A	mg CaCO3/L	P235900	
	SM 2540 C-97	TDS	161		mg/L	P235960	
1406397	EPA 350.1 Rev. 2.0	Ammonia-N	0.010	U	mg N/L	P235735	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.14	I	mg N/L	P236016	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.5		mg N/L	P235770	
	EPA 365.1 Rev. 2.0	Total-P	0.021		mg P/L	P235856	
	SM 5310 B-00	Organic Carbon	1.0	U	mg C/L	P235948	
1406399	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P235707	
1406401	EPA 200.7 Rev. 4.4	Boron	15	U	ug/L	P236031	
		Calcium	54.6		mg/L	P236031	
		Magnesium	4.73		mg/L	P236031	
		Potassium	0.45	I	mg/L	P236031	
		Sodium	2.8		mg/L	P236031	

Sample Location: HOLE-IN-THE-WALL SPRING**Collection Date/Time: 02/02/2012 11:58 AM****Field ID: HOLE-IN-THE-WALL SPRING****Matrix: W-OTHER**

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1406394	EPA 180.1 Rev. 2.0	Turbidity	0.40		NTU	P235691	
	EPA 300.0 Rev. 2.1	Chloride	5.3		mg Cl/L	P235983	
		Sulfate	1.8		mg SO4/L	P235985	
	SM 2120 B	Color (true)	2.5	U	PCU	P235693	
	SM 2320 B-97	Alkalinity	135	A	mg CaCO3/L	P235899	
	SM 2540 C-97	TDS	171		mg/L	P235960	
1406396	EPA 350.1 Rev. 2.0	Ammonia-N	0.019	I	mg N/L	P235735	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.11	I	mg N/L	P236016	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.9		mg N/L	P235770	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P235856	
	SM 5310 B-00	Organic Carbon	1.0	U	mg C/L	P235948	
1406398	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.018		mg P/L	P235707	
1406400	EPA 200.7 Rev. 4.4	Boron	15	U	ug/L	P236031	
		Calcium	53.3		mg/L	P236031	
		Magnesium	3.91		mg/L	P236031	
		Potassium	0.42	I	mg/L	P236031	
		Sodium	2.3		mg/L	P236031	

Quality Assurance Report

Method Blank Results

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P235691

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P236031

Component	Result	Code	Units
Boron	15	U	ug/L
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 300.0 Rev. 2.1

Batch ID: P235983

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235985

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P235735

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P236016

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P235770

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P235856

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P235707

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P235707

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

Reference Method: SM 2120 B

Batch ID: P235693

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97

Batch ID: P235899

Component	Result	Code	Units
Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2320 B-97

Batch ID: P235900

Component	Result	Code	Units
Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-97

Batch ID: P235960

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 5310 B-00

Batch ID: P235948

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P236031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Boron	96.8		P	85 - 115
Calcium	103		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	104		P	85 - 115
Sodium	98.1		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235983

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.5		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	92.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P235735

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P236016

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P235770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P235856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P235707

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

Reference Method: SM 2320 B-97

Batch ID: P235899

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alkalinity	97.9		P	85 - 115

Reference Method: SM 2320 B-97

Batch ID: P235900

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alkalinity	103		P	85 - 115

Reference Method: SM 5310 B-00

Batch ID: P235948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P236031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406008	Boron	103	105	P/P	80 - 120
1406008	Calcium	97.4		P	80 - 120
1406008	Magnesium	99.3		P	80 - 120
1406008	Potassium	104	103	P/P	80 - 120
1406008	Sodium	106	105	P/P	80 - 120
1406400	Boron	103		P	80 - 120
1406400	Calcium	98.2		P	80 - 120
1406400	Magnesium	97.4		P	80 - 120
1406400	Potassium	103		P	80 - 120
1406400	Sodium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235983

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406717	Chloride	94.7		P	90 - 110
1406764	Chloride	95.5	93.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406717	Sulfate	94.6		P	90 - 110
1406764	Sulfate	92.7	93.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P235735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406396	Ammonia-N	93.7	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P236016

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406397	Kjeldahl Nitrogen	96.3	90.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P235770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406390	NO2NO3-N	96.2	96.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P235856

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406396	Total-P	103	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P235707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406398	O-Phosphate-P	94.9	96.9	P/P	90 - 110

Reference Method: SM 5310 B-00

Batch ID: P235948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406316	Organic Carbon	113	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P235691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406330	Turbidity	4.24	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P236031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406008	Boron	1.86	Spike	P	0 - 20
1406008	Calcium	2.67	Sample	P	0 - 20
1406008	Magnesium	1.30	Sample	P	0 - 20
1406008	Potassium	1.47	Spike	P	0 - 20
1406008	Sodium	3.60	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235983

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406764	Chloride	1.47	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406764	Sulfate	0.625	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P235735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406396	Ammonia-N	2.39	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P236016

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406397	Kjeldahl Nitrogen	5.16	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P235770

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406390	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P235856

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406396	Total-P	2.04	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P235707

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406398	O-Phosphate-P	1.75	Spike	P	0 - 20

Reference Method: SM 2120 B

Batch ID: P235693

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406331	Color (true)	2.56	Sample	P	0 - 20

Reference Method: SM 2320 B-97

Batch ID: P235899

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406394	Alkalinity	1.10	Sample	P	0 - 20
1406717	Alkalinity	4.20	Sample	P	0 - 20

Reference Method: SM 2320 B-97

Batch ID: P235900

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406395	Alkalinity	0.663	Sample	P	0 - 20
1407249	Alkalinity	0.166	Sample	P	0 - 20

Reference Method: SM 2540 C-97

Batch ID: P235960

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: SM 2540 C-97

Batch ID: P235960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406406	TDS	4.44	Sample	P	0 - 10

Reference Method: SM 5310 B-00

Batch ID: P235948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406316	Organic Carbon	9.95	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 Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A43378

Included Lab Sample IDs: 1406394, 1406395

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

Reference Method: SM 2120 B

Run ID: A43379

Included Lab Sample IDs: 1406394, 1406395

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	94.4	91.2	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A43389

Included Lab Sample IDs: 1406398, 1406399

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	97.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A43401

Included Lab Sample IDs: 1406396, 1406397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	95.3	97.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A43420

Included Lab Sample IDs: 1406396, 1406397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	103	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A43460

Included Lab Sample IDs: 1406396, 1406397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.9	P/P	90 - 110
Total-P	98.9	98.8	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A43479

Included Lab Sample IDs: 1406394, 1406395

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alkalinity	103	99.0	P/P	85 - 115
Alkalinity	97.3	97.7	P/P	85 - 115

Reference Method: SM 5310 B-00

Run ID: A43504

Included Lab Sample IDs: 1406396, 1406397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	107	107	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A43521

Included Lab Sample IDs: 1406394, 1406395

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.0	98.0	P/P	90 - 110
Chloride	98.0	99.0	P/P	90 - 110
Sulfate	108	94.8	P/P	90 - 110
Sulfate	94.8	96.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A43533

Included Lab Sample IDs: 1406396, 1406397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	98.7	P/P	90 - 110
Kjeldahl Nitrogen	93.6	98.0	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A43543

Included Lab Sample IDs: 1406400, 1406401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	97.5	98.0	P/P	90 - 110
Boron	99.0	97.5	P/P	90 - 110
Calcium	102	104	P/P	90 - 110
Calcium	104	102	P/P	90 - 110
Magnesium	100	99.3	P/P	90 - 110
Magnesium	99.3	100	P/P	90 - 110
Potassium	102	104	P/P	90 - 110
Potassium	104	103	P/P	90 - 110
Sodium	101	102	P/P	90 - 110
Sodium	102	101	P/P	90 - 110

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			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						4.24	
EPA 200.7 Rev. 4.4	Boron	96.8	103	105	103			1.86
	Calcium	103	97.4	98.2			2.67	
	Magnesium	102	99.3	97.4			1.30	
	Potassium	104	104	103	103			1.47
	Sodium	98.1	106	105	104		3.60	
EPA 300.0 Rev. 2.1	Chloride	97.5	95.5	93.0	94.7			1.47
	Sulfate	92.9	92.7	93.5	94.6			0.625
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	93.7	96.2				2.39
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.6	96.3	90.9				5.16
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	96.2	96.2				0.0
EPA 365.1 Rev. 2.0	Total-P	103	103	101				2.04
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5	94.9	96.9				1.75
SM 2120 B	Color (true)						2.56	
SM 2320 B-97	Alkalinity	97.9					4.20	1.10
	Alkalinity	103					0.166	
							0.663	
SM 2540 C-97	TDS						4.44	
SM 5310 B-00	Organic Carbon	96.5	113	97.0				9.95

Reference Method Descriptions

Method / NELAC Cert. #	Description
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
SM 2120 B / E31780	True Color measured at 450 nm or Apparent Color
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	02/03/2012			02/03/2012 14:52	Bryan A. Werth	1406394, 1406395
EPA 200.7 Rev. 4.4	02/03/2012	02/08/2012	Elliott D. Healy	02/14/2012	Elisa J Lutz	1406400, 1406401
EPA 300.0 Rev. 2.1	02/03/2012			02/11/2012	Gary Dearman	1406394, 1406395
EPA 350.1 Rev. 2.0	02/03/2012			02/06/2012	Diana M. Dunbar	1406396, 1406397
EPA 351.2 Rev. 2.0	02/03/2012	02/10/2012	Bryan A. Werth	02/14/2012	Bryan A. Werth	1406396, 1406397
EPA 353.2 Rev. 2.0	02/03/2012			02/07/2012	Sima Feizi	1406396, 1406397
EPA 365.1 Rev. 2.0	02/03/2012	02/08/2012	Megan E. Faircloth	02/09/2012	Megan E. Faircloth	1406396, 1406397
EPA 365.1 Rev. 2.0 dissolved	02/03/2012			02/03/2012 15:31	Pallavi R. Gadwal	1406398
	02/03/2012			02/03/2012 15:34	Pallavi R. Gadwal	1406399
SM 2120 B	02/03/2012			02/03/2012 13:29	Rochelle Y Jackson	1406394
	02/03/2012			02/03/2012 13:30	Rochelle Y Jackson	1406395
SM 2320 B-97	02/03/2012			02/10/2012	Dale L. Simmons	1406394, 1406395
SM 2540 C-97	02/03/2012			02/06/2012	Yijie Li	1406394, 1406395
SM 5310 B-00	02/03/2012			02/13/2012	Rochelle Y Jackson	1406396, 1406397