

Chemical Analysis Report

CEN-DIST-2016-03-16-01

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

Event Description: **Lady Lake**
Request ID: **RQ-2016-03-14-33**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Timothy Fitzpatrick, Program Administrator

Date Certified: 01-APR-2016 09:22

A handwritten signature in black ink, appearing to read "Timothy Fitzpatrick", with a stylized flourish at the end.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Nutrients.

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.

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.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- 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 and/or the analysis did not meet established quality control criteria.
- 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).

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.

Sample Location: Lady Lake North Lobe North of Center

Collection Date/Time: 03/15/2016 11:20

Field ID: G4CE0096

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1780668	EPA 180.1 Rev. 2.0	Turbidity	1.5	A	NTU	P300521	
	EPA 300.0 Rev. 2.1	Chloride	9.0		mg Cl/L	P300752	
		Sulfate	7.2		mg SO4/L	P300754	
	SM 2120 B	Color (true)	12		PCU	P300504	
	SM 2320 B-97	Total Alkalinity	0.89	I	mg CaCO3/L	P300764	
	SM 2540 C-97	TDS	33		mg/L	P301168	
	SM 2540 D-97	TSS	2	U	mg/L	P300952	
	SM 4500 F-C-97	Fluoride	0.054	I	mg F/L	P300766	
1780670	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P301192	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P301047	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P300805	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P301053	
	SM 5310 B-00	Organic Carbon	7.1		mg C/L	P301063	
1780672	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P300516	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: Lady Lake North Lobe South of Center

Collection Date/Time: 03/15/2016 11:30

Field ID: G4CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1780669	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P300521	
	EPA 300.0 Rev. 2.1	Chloride	9.1		mg Cl/L	P300752	
		Sulfate	7.2		mg SO4/L	P300754	
	SM 2120 B	Color (true)	13		PCU	P300504	
	SM 2320 B-97	Total Alkalinity	0.89	I	mg CaCO3/L	P300764	
	SM 2540 C-97	TDS	32		mg/L	P301168	
	SM 2540 D-97	TSS	4	I	mg/L	P300952	
	SM 4500 F-C-97	Fluoride	0.055	I	mg F/L	P300766	
1780671	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P301193	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P301047	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P300805	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P301054	
	SM 5310 B-00	Organic Carbon	7.2		mg C/L	P301063	
1780673	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P300516	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P300521

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P300752

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P300754

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301192

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301193

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301047

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P300805

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301053

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301054

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P300516

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2120 B
Batch ID: P300504

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P300764

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

Reference Method: SM 2540 C-97
Batch ID: P301168

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P300952

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P300766

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P301063

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P300752

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P300754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301192

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301192

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301193

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301047

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.9		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P300805

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: P301053

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301054

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P300516

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

Reference Method: SM 2320 B-97
Batch ID: P300764

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P300766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.4		P	94 - 108

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P301063

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P300752

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1780610	Chloride	99.6	100	P/P	90 - 110
1780611	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P300754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1780610	Sulfate	100	101	P/P	90 - 110
1780611	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301192

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1780618	Ammonia-N	101	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301193

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1780695	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301047

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1780671	Kjeldahl Nitrogen	107	97.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P300805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1780619	NO2NO3-N	97.0	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1780613	Total-P	97.5	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P301054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1780671	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P300516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1780625	O-Phosphate-P	98.8	100	P/P	90 - 110

Reference Method: SM 4500 F-C-97
 Batch ID: P300766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1781390	Fluoride	100	101	P/P	94 - 107

Reference Method: SM 5310 B-00
 Batch ID: P301063

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1781512	Organic Carbon	97.1	98.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P300521

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780668	Turbidity	2.63	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P300752

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780610	Chloride	0.289	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P300754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780610	Sulfate	0.346	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P301192

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780618	Ammonia-N	0.470	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301193

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780695	Ammonia-N	0.245	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301047

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780671	Kjeldahl Nitrogen	5.55	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P300805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780619	NO2NO3-N	5.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780613	Total-P	4.00	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780671	Total-P	0.447	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P300516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780625	O-Phosphate-P	1.21	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P300504

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780694	Color (true)	0.0539	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P300764

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1781390	Total Alkalinity	0.187	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
 Batch ID: P301168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1780680	TDS	1.85	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P300766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1781390	Fluoride	0.500	Spike	P	0 - 3.7

Reference Method: SM 5310 B-00
 Batch ID: P301063

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1781512	Organic Carbon	1.18	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 300.0 Rev. 2.1
 Run ID: A68261
 Included Lab Sample IDs: 1780668, 1780669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Sulfate	98.2	101	P/P	90 - 110

Reference Method: SM 2120 B
 Run ID: A68264
 Included Lab Sample IDs: 1780668, 1780669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.2	98.5	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Run ID: A68269
 Included Lab Sample IDs: 1780672, 1780673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.2	98.7	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
 Run ID: A68270
 Included Lab Sample IDs: 1780668, 1780669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.0	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A68354

Included Lab Sample IDs: 1780668, 1780669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.1	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A68354

Included Lab Sample IDs: 1780668, 1780669

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A68374

Included Lab Sample IDs: 1780670, 1780671

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A68443

Included Lab Sample IDs: 1780670, 1780671

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	97.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A68456

Included Lab Sample IDs: 1780670, 1780671

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.6	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A68500

Included Lab Sample IDs: 1780670, 1780671

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	101	P/P	90 - 110
Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A68505

Included Lab Sample IDs: 1780670, 1780671

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

* 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				2.63	
EPA 300.0 Rev. 2.1	Chloride	100	99.6	100		0.289
	Sulfate	100	100	101		0.346
EPA 350.1 Rev. 2.0	Ammonia-N	98.6	101	100		0.470
	Ammonia-N	98.6	100	101		0.245
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.9	107	97.8		5.55
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	97.0	102		5.03
EPA 365.1 Rev. 2.0	Total-P	105	97.5	102		4.00
	Total-P	105	102	103		0.447
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	104	98.8	100		1.21
SM 2120 B	Color (true)				0.0539	
SM 2320 B-97	Total Alkalinity	101			0.187	
SM 2540 C-97	TDS				1.85	
SM 4500 F-C-97	Fluoride	98.4	100	101		0.500
SM 5310 B-00	Organic Carbon	94.8	97.1	98.3		1.18

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1780668, 1780669
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1780668, 1780669
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1780668, 1780669
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1780670, 1780671
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1780670, 1780671
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1780670, 1780671
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1780670, 1780671
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1780672, 1780673
SM 2120 B / E31780	True Color measured at 450 nm	1780668, 1780669
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1780668, 1780669
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1780668, 1780669
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1780668, 1780669
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1780668, 1780669
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1780670, 1780671

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	03/16/2016			03/16/2016 16:50	Sima Feizi	1780668, 1780669
EPA 300.0 Rev. 2.1	03/16/2016			03/19/2016	Ping Hua	1780668, 1780669
EPA 350.1 Rev. 2.0	03/16/2016			03/28/2016	Diana M. Turner	1780670, 1780671
EPA 351.2 Rev. 2.0	03/16/2016	03/25/2016	Sofia Elnemr	03/27/2016	Rochelle Y Jackson	1780670, 1780671
EPA 353.2 Rev. 2.0	03/16/2016			03/22/2016	Peter D. Kaus	1780670, 1780671
EPA 365.1 Rev. 2.0	03/16/2016	03/25/2016	Lipi Saha	03/28/2016	Lipi Saha	1780670, 1780671
EPA 365.1 Rev. 2.0 dissolved	03/16/2016			03/16/2016 16:53	Julia Storbeck	1780672
	03/16/2016			03/16/2016 16:54	Julia Storbeck	1780673
SM 2120 B	03/16/2016			03/16/2016 16:07	Rochelle Y Jackson	1780668
	03/16/2016			03/16/2016 16:08	Rochelle Y Jackson	1780669
SM 2320 B-97	03/16/2016			03/21/2016	Dale L. Simmons	1780668, 1780669
SM 2540 C-97	03/16/2016			03/21/2016	Yijie Li	1780668, 1780669
SM 2540 D-97	03/16/2016			03/21/2016	Yijie Li	1780668, 1780669
SM 4500 F-C-97	03/16/2016			03/21/2016	Dale L. Simmons	1780668, 1780669
SM 5310 B-00	03/16/2016			03/24/2016	Sofia Elnemr	1780670, 1780671