

Chemical Analysis Report

WQAP-2016-10-26-04

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

Event Description: **Sally Ward Spring, Big Cypress Branch, Big Branch and Black Creek**
Request ID: **RQ-2016-10-24-30**
Customer: **WQAP**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 22-NOV-2016 12:33



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: Chicken Branch at Old Plank Rd

Collection Date/Time: 10/26/2016 08:10

Field ID: G1WA0031-10262016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1844796	EPA 180.1 Rev. 2.0	Turbidity	0.80		NTU	P313980	
	EPA 300.0 Rev. 2.1	Chloride	5.9		mg Cl/L	P314989	
	SM 2120 B	Color (true)	16		PCU	P313996	
	SM 2320 B-97	Total Alkalinity	135		mg CaCO3/L	P314176	
	SM 2540 C-97	TDS	164		mg/L	P314603	
	SM 2540 D-97	TSS	2	I	mg/L	P314501	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P314181	
1844799	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P314905	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.12	I	mg N/L	P315116	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P314241	
	EPA 365.1 Rev. 2.0	Total-P	0.042		mg P/L	P314770	MS
	SM 5310 B-00	Organic Carbon	2.0		mg C/L	P314147	
1844802	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.037		mg P/L	P313948	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Big Cypress Branch 100 meters upstream of CR 67

Collection Date/Time: 10/26/2016 10:00

Field ID: G1WA0003-10262016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1844797	EPA 180.1 Rev. 2.0	Turbidity	1.9	A	NTU	P313980	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P314989	
	SM 2120 B	Color (true)	34		PCU	P313996	
	SM 2320 B-97	Total Alkalinity	107		mg CaCO3/L	P314176	
	SM 2540 C-97	TDS	333		mg/L	P314603	
	SM 2540 D-97	TSS	2	I	mg/L	P314501	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P314181	
1844800	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P314905	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P315116	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P314241	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P314770	MS
	SM 5310 B-00	Organic Carbon	6.0		mg C/L	P314147	
1844803	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.030		mg P/L	P313948	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Stafford Creek 100 metes upstreams of SR 69

Collection Date/Time: 10/26/2016 11:05

Field ID: G2WA0004-10262016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1844798	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P313980	
	EPA 300.0 Rev. 2.1	Chloride	7.5		mg Cl/L	P314989	
	SM 2120 B	Color (true)	36	A	PCU	P313996	
	SM 2320 B-97	Total Alkalinity	30		mg CaCO3/L	P314176	

Field ID: G2WA0004-10262016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1844798	SM 2540 C-97	TDS	53		mg/L	P314603	
	SM 2540 D-97	TSS	2	I	mg/L	P314501	
	SM 4500 F-C-97	Fluoride	0.047	I	mg F/L	P314181	
1844801	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P314905	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P315116	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.48		mg N/L	P314241	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P314770	MS
	SM 5310 B-00	Organic Carbon	3.5		mg C/L	P314147	
1844804	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P313948	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P313980

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P314989

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P314905

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315116

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314241

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314770

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313948

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

Reference Method: SM 2120 B
Batch ID: P313996

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P314176

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-97
Batch ID: P314603

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P314501

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P314181

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P314147

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: P314989

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P314905

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: P314905

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315116

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314241

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	101		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P314176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P314181

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P314147

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.7		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P314989

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P314989

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1844798	Chloride	97.6		P	90 - 110
1845290	Chloride	96.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P314905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1844799	Ammonia-N	96.9	95.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315116

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1844800	Kjeldahl Nitrogen	103	98.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314241

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1844788	NO2NO3-N	99.0	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1844881	Total-P	113	114	F/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1844636	O-Phosphate-P	98.8	100	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P314181

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1845002	Fluoride	97.8	99.2	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P314147

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1844700	Organic Carbon	96.4	94.8	P/P	85 - 115

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P313980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1844797	Turbidity	3.75	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P314989

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1845290	Chloride	0.0504	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P314905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1844799	Ammonia-N	1.17	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1844800	Kjeldahl Nitrogen	3.04	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314241

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1844788	NO2NO3-N	1.49	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1844881	Total-P	0.538	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P313948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1844636	O-Phosphate-P	1.71	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P313996

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1844798	Color (true)	4.16	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P314176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1845002	Total Alkalinity	0.107	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P314603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1844787	TDS	4.28	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P314181

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1845002	Fluoride	0.946	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P314147

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1844700	Organic Carbon	0.938	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 365.1 Rev. 2.0 dissolved
Run ID: A72445
Included Lab Sample IDs: 1844802, 1844803, 1844804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	98.3	P/P	90 - 110
O-Phosphate-P	99.0	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A72457
Included Lab Sample IDs: 1844796, 1844797, 1844798

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

Reference Method: SM 2120 B
Run ID: A72462
Included Lab Sample IDs: 1844796, 1844797, 1844798

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	104	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A72506

Included Lab Sample IDs: 1844799, 1844800, 1844801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	96.8	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A72515

Included Lab Sample IDs: 1844796, 1844797, 1844798

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.6	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A72515

Included Lab Sample IDs: 1844796, 1844797, 1844798

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A72533

Included Lab Sample IDs: 1844799, 1844800, 1844801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.5	96.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A72715

Included Lab Sample IDs: 1844796, 1844797, 1844798

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A72730

Included Lab Sample IDs: 1844800

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A72736

Included Lab Sample IDs: 1844799, 1844800, 1844801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	99.5	P/P	90 - 110
Ammonia-N	99.5	98.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A72784

Included Lab Sample IDs: 1844799, 1844801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A72832

Included Lab Sample IDs: 1844799, 1844800, 1844801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	108	P/P	90 - 110
Kjeldahl Nitrogen	108	105	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				3.75	
EPA 300.0 Rev. 2.1	Chloride	98.4	96.6 97.6		0.0504	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	96.9 95.2			1.17
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	103 98.9			3.04
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	99.0 96.5			1.49
EPA 365.1 Rev. 2.0	Total-P	97.9	113 114			0.538
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	98.8 100			1.71
SM 2120 B	Color (true)				4.16	
SM 2320 B-97	Total Alkalinity	104			0.107	
SM 2540 C-97	TDS				4.28	
SM 4500 F-C-97	Fluoride	101	97.8 99.2			0.946
SM 5310 B-00	Organic Carbon	96.7	96.4 94.8			0.938

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1844796, 1844797, 1844798
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1844796, 1844797, 1844798
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1844799, 1844800, 1844801
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1844799, 1844800, 1844801
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1844799, 1844800, 1844801
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1844799, 1844800, 1844801
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1844802, 1844803, 1844804
SM 2120 B / E31780	True Color measured at 450 nm	1844796, 1844797, 1844798
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1844796, 1844797, 1844798
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1844796, 1844797, 1844798
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1844796, 1844797, 1844798
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1844796, 1844797, 1844798
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1844799, 1844800, 1844801

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	10/26/2016			10/26/2016 16:58	Sima Feizi	1844796, 1844797, 1844798
EPA 300.0 Rev. 2.1	10/26/2016			11/10/2016	Ping Hua	1844796, 1844797, 1844798
EPA 350.1 Rev. 2.0	10/26/2016			11/09/2016	Sofia Elnemr	1844799, 1844800, 1844801
EPA 351.2 Rev. 2.0	10/26/2016	11/15/2016	Adrian Shelby	11/16/2016	Joseph Suarez	1844799, 1844800, 1844801
EPA 353.2 Rev. 2.0	10/26/2016			10/31/2016	Beverly Y. Sanders	1844799, 1844800, 1844801
EPA 365.1 Rev. 2.0	10/26/2016	11/08/2016	Adrian Shelby	11/09/2016	Lipi Saha	1844800
	10/26/2016	11/08/2016	Adrian Shelby	11/14/2016	Lipi Saha	1844799, 1844801
EPA 365.1 Rev. 2.0 dissolved	10/26/2016			10/26/2016 16:11	Julia Storbeck	1844802
	10/26/2016			10/26/2016 16:16	Julia Storbeck	1844803
	10/26/2016			10/26/2016 16:17	Julia Storbeck	1844804
SM 2120 B	10/26/2016			10/26/2016 16:49	Julie Michelle Frank	1844798
	10/26/2016			10/26/2016 16:52	Julie Michelle Frank	1844796, 1844797
SM 2320 B-97	10/26/2016			10/29/2016	Dale L. Simmons	1844796, 1844797, 1844798
SM 2540 C-97	10/26/2016			10/28/2016	Yijie Li	1844796, 1844797, 1844798
SM 2540 D-97	10/26/2016			10/28/2016	Yijie Li	1844796, 1844797, 1844798
SM 4500 F-C-97	10/26/2016			10/29/2016	Dale L. Simmons	1844796, 1844797, 1844798
SM 5310 B-00	10/26/2016			10/28/2016	Julie Michelle Frank	1844799, 1844800, 1844801