Chemical Analysis Report

SW-DIST-2016-08-23-01

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

Event Description: **RUN 8**
Request ID: **RQ-2016-08-22-18**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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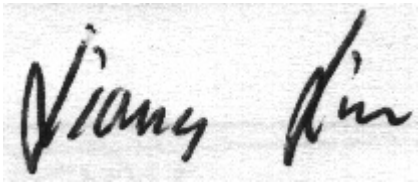
Certified by: Liang Lin, Environmental Administrator

Date Certified: 14-SEP-2016 11:28



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: JERRY BRANCH **Collection Date/Time: 08/22/2016 10:30**

Field ID: G5SW0117 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1825725	EPA 180.1 Rev. 2.0	Turbidity	7.9		NTU	P310160	
	EPA 300.0 Rev. 2.1	Chloride	46		mg Cl/L	P310943	
		Sulfate	15		mg SO4/L	P310946	
	SM 2120 B	Color (true)	81		PCU	P310164	
	SM 2320 B-97	Total Alkalinity	84		mg CaCO3/L	P310296	
	SM 2540 C-97	TDS	232	A	mg/L	P310626	
	SM 2540 D-97	TSS	16	A	mg/L	P310575	
	SM 4500 F-C-97	Fluoride	0.18		mg F/L	P310299	
1825727	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P310169	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P310465	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P310592	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P310228	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P310350	
1825729	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.091		mg P/L	P310153	

Sample Location: LAKE JUANITA **Collection Date/Time: 08/22/2016 11:30**

Field ID: G1SW0019 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1825726	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P310160	
	EPA 300.0 Rev. 2.1	Chloride	23	A	mg Cl/L	P310943	
		Sulfate	4.1	A	mg SO4/L	P310946	
	SM 2120 B	Color (true)	63		PCU	P310164	
	SM 2320 B-97	Total Alkalinity	13		mg CaCO3/L	P310296	
	SM 2540 C-97	TDS	95		mg/L	P310627	
	SM 2540 D-97	TSS	3	I	mg/L	P310576	
	SM 4500 F-C-97	Fluoride	0.063	I	mg F/L	P310299	
1825728	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P310169	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P310465	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P310825	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P310228	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P310350	
1825730	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P310153	

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: P310160

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: P310943

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P310946

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P310169

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P310465

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P310592

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P310825

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P310228

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P310153

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

Reference Method: SM 2120 B
Batch ID: P310164

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P310296

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

Reference Method: SM 2540 C-97
Batch ID: P310626

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P310627

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P310575

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P310576

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P310299

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P310350

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: P310943

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P310946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P310946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P310169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P310465

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P310592

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P310825

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P310228

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P310153

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

Reference Method: SM 2320 B-97
Batch ID: P310296

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

Reference Method: SM 4500 F-C-97
Batch ID: P310299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.5		P	92 - 103

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P310350

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	104		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P310943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1825726	Chloride	98.9		P	90 - 110
1826314	Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P310946

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1825726	Sulfate	98.4		P	90 - 110
1826314	Sulfate	96.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P310169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1825509	Ammonia-N	99.8	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P310465

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1825713	Kjeldahl Nitrogen	97.5	95.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P310592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1825706	NO2NO3-N	94.5	94.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P310825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1826796	NO2NO3-N	90.4	93.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P310228

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1825710	Total-P	102	102	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P310153

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1825718	O-Phosphate-P	96.9	98.2	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P310299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1825591	Fluoride	98.7	98.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P310350

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1825708	Organic Carbon	102	100	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P310160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825702	Turbidity	4.12	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P310943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825726	Chloride	0.0216	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P310946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825726	Sulfate	0.599	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P310169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825509	Ammonia-N	0.974	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P310465

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825713	Kjeldahl Nitrogen	1.87	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P310592

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825706	NO2NO3-N	0.342	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P310825

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1826796	NO2NO3-N	2.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P310228

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825710	Total-P	0.583	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P310153

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825718	O-Phosphate-P	1.21	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P310164

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825787	Color (true)	0.467	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P310296

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825591	Total Alkalinity	0.171	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P310626

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825725	TDS	7.34	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P310627

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825775	TDS	4.36	Sample	P	0 - 10

Quality Assurance Report
Precision

Reference Method: SM 2540 D-97
Batch ID: P310575

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825725	TSS	7.59	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P310299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825591	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P310350

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1825708	Organic Carbon	1.19	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: A71271
Included Lab Sample IDs: 1825729, 1825730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.5	99.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A71272
Included Lab Sample IDs: 1825725, 1825726

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

Reference Method: SM 2120 B
Run ID: A71273
Included Lab Sample IDs: 1825725, 1825726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	100	P/P	90 - 115

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A71275
Included Lab Sample IDs: 1825727, 1825728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	106	106	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A71308
Included Lab Sample IDs: 1825727

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	99.0	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A71312
Included Lab Sample IDs: 1825725, 1825726

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

Reference Method: SM 4500 F-C-97
Run ID: A71312
Included Lab Sample IDs: 1825725, 1825726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A71321
Included Lab Sample IDs: 1825728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.2	97.2	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A71324
Included Lab Sample IDs: 1825727, 1825728

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A71398
Included Lab Sample IDs: 1825727

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A71414
Included Lab Sample IDs: 1825727, 1825728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	106	P/P	90 - 110
Kjeldahl Nitrogen	107	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A71490
Included Lab Sample IDs: 1825728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.0	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A71540
Included Lab Sample IDs: 1825725, 1825726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Chloride	101	103	P/P	90 - 110
Sulfate	99.2	99.9	P/P	90 - 110
Sulfate	99.9	99.4	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		Precision		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					4.12	
EPA 300.0 Rev. 2.1	Chloride	101	98.9	98.9		0.0216	
	Sulfate	98.9	98.4	96.9		0.599	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	99.8	101			0.974
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	97.5	95.1			1.87
EPA 353.2 Rev. 2.0	NO2NO3-N	104	94.5	94.0			0.342
	NO2NO3-N	100	90.4	93.0			2.01
EPA 365.1 Rev. 2.0	Total-P	98.5	102	102			0.583
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.6	96.9	98.2			1.21
SM 2120 B	Color (true)					0.467	
SM 2320 B-97	Total Alkalinity	104				0.171	
SM 2540 C-97	TDS					7.34	
	TDS					4.36	
SM 2540 D-97	TSS					7.59	
SM 4500 F-C-97	Fluoride	98.5	98.7	98.7			0.0
SM 5310 B-00	Organic Carbon	104	102	100			1.19

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1825725, 1825726
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1825725, 1825726
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1825725, 1825726
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1825727, 1825728
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1825727, 1825728
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1825727, 1825728
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1825727, 1825728
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1825729, 1825730
SM 2120 B / E31780	True Color measured at 450 nm	1825725, 1825726

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1825725, 1825726
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1825725, 1825726
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1825725, 1825726
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1825725, 1825726
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1825727, 1825728

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	08/23/2016			08/23/2016 14:34	Sima Feizi	1825725, 1825726
EPA 300.0 Rev. 2.1	08/23/2016			09/10/2016	Ping Hua	1825725, 1825726
EPA 350.1 Rev. 2.0	08/23/2016			08/23/2016	Julie Michelle Frank	1825727, 1825728
EPA 351.2 Rev. 2.0	08/23/2016	08/29/2016	Adrian Shelby	08/30/2016	Christopher Armour	1825727, 1825728
EPA 353.2 Rev. 2.0	08/23/2016			08/30/2016	Beverly Y. Sanders	1825727
	08/23/2016			09/08/2016	Beverly Y. Sanders	1825728
EPA 365.1 Rev. 2.0	08/23/2016	08/24/2016	Vijayalakshmi Reddy	08/24/2016	Lipi Saha	1825727
	08/23/2016	08/24/2016	Vijayalakshmi Reddy	08/25/2016	Lipi Saha	1825728
EPA 365.1 Rev. 2.0 dissolved	08/23/2016			08/23/2016 15:28	Julia Storbeck	1825729
	08/23/2016			08/23/2016 15:29	Julia Storbeck	1825730
SM 2120 B	08/23/2016			08/23/2016 16:21	Rochelle Y Jackson	1825725
	08/23/2016			08/23/2016 16:22	Rochelle Y Jackson	1825726
SM 2320 B-97	08/23/2016			08/25/2016	Dale L. Simmons	1825725, 1825726
SM 2540 C-97	08/23/2016			08/26/2016	Yijie Li	1825725, 1825726
SM 2540 D-97	08/23/2016			08/26/2016	Yijie Li	1825725, 1825726
SM 4500 F-C-97	08/23/2016			08/25/2016	Dale L. Simmons	1825725, 1825726
SM 5310 B-00	08/23/2016			08/25/2016	Sofia Elnemr	1825727, 1825728