

Chemical Analysis Report

NE-DIST-2017-09-06-01

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

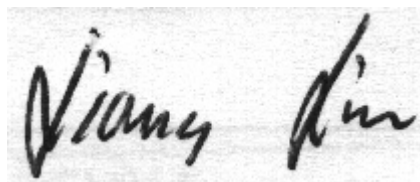
Event Description: **LSJR SOUTH 2**
Request ID: **RQ-2017-09-04-60**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
NE ROC
8800 Baymeadows Way W
Suite 100
Jacksonville, FL 32256-7577
Attn: Nicole Frederick

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 29-SEP-2017 14:14

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

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: MILL BRANCH @ MCCORMICK RD.

Collection Date/Time: 09/05/2017 10:30

Field ID: G2NE0688 09062017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927905	EPA 180.1 Rev. 2.0	Turbidity	16		NTU	P331392	
	EPA 300.0 Rev. 2.1	Chloride	49		mg Cl/L	P331760	
		Sulfate	21		mg SO4/L	P331757	
	SM 2120 B	Color (true)	790	A	PCU	P331381	
	SM 2320 B-97	Total Alkalinity	13		mg CaCO3/L	P331729	
	SM 2540 C-97	TDS	279		mg/L	P331698	
	SM 2540 D-97	TSS	16		mg/L	P331825	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P331735	
1927907	EPA 350.1 Rev. 2.0	Ammonia-N	0.071		mg N/L	P331594	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P331574	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P331547	
	EPA 365.1 Rev. 2.0	Total-P	0.21		mg P/L	P331562	
	SM 5310 B-00	Organic Carbon	62		mg C/L	P331894	
1927909	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P331473	

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: MILL BRANCH @ SR 16

Collection Date/Time: 09/05/2017 08:45

Field ID: G2NE0481 05032017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927906	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P331392	
	EPA 300.0 Rev. 2.1	Chloride	52		mg Cl/L	P331760	
		Sulfate	47		mg SO4/L	P331757	
	SM 2120 B	Color (true)	240		PCU	P331379	
	SM 2320 B-97	Total Alkalinity	75		mg CaCO3/L	P331729	
	SM 2540 C-97	TDS	306	A	mg/L	P331698	
	SM 2540 D-97	TSS	4	IA	mg/L	P331825	
	SM 4500 F-C-97	Fluoride	0.20		mg F/L	P331735	
1927908	EPA 350.1 Rev. 2.0	Ammonia-N	0.046		mg N/L	P331594	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P331574	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.53		mg N/L	P331547	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P331564	
	SM 5310 B-00	Organic Carbon	22		mg C/L	P331894	
1927910	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.13		mg P/L	P331473	

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: P331392

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: P331757

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331760

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331594

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331574

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331547

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331562

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331564

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331473

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

Reference Method: SM 2120 B
Batch ID: P331379

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2120 B
Batch ID: P331381

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P331729

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

Reference Method: SM 2540 C-97
Batch ID: P331698

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P331825

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P331735

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P331894

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: P331757

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331760

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331594

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: P331594

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331574

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331547

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331562

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331564

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: P331473

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

Reference Method: SM 2320 B-97
Batch ID: P331729

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P331735

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.4		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P331894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331757

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927594	Sulfate	92.0		P	90 - 110
1928348	Sulfate	98.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331760

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927594	Chloride	94.5		P	90 - 110
1928348	Chloride	95.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331594

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927870	Ammonia-N	100	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331574

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927804	Kjeldahl Nitrogen	98.4	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331547

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927870	NO2NO3-N	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331562

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927543	Total-P	93.6	92.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928004	Total-P	95.7	97.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927871	O-Phosphate-P	95.7	96.5	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P331735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1928613	Fluoride	98.1	97.4	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P331894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927934	Organic Carbon	93.6	95.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P331392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927786	Turbidity	2.87	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P331757

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927594	Sulfate	5.51	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P331760

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927594	Chloride	9.59	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P331594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927870	Ammonia-N	0.844	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P331574

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927804	Kjeldahl Nitrogen	0.560	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P331547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927870	NO2NO3-N	0.926	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331562

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927543	Total-P	0.997	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331564

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928004	Total-P	2.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927871	O-Phosphate-P	0.832	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P331379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927932	Color (true)	4.24	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P331381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927905	Color (true)	0.209	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P331729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928613	Total Alkalinity	0.249	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P331698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927906	TDS	2.29	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P331735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1928613	Fluoride	0.473	Spike	P	0 - 3.0

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
Batch ID: P331894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927934	Organic Carbon	1.33	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: SM 2120 B
Run ID: A78828
Included Lab Sample IDs: 1927905, 1927906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	104	P/P	85 - 115
Color (true)	104	103	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A78829
Included Lab Sample IDs: 1927905, 1927906

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A78860
Included Lab Sample IDs: 1927909, 1927910

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A78876
Included Lab Sample IDs: 1927907, 1927908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A78895
Included Lab Sample IDs: 1927907, 1927908

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A78923
Included Lab Sample IDs: 1927907, 1927908

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A78923
Included Lab Sample IDs: 1927907, 1927908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	104	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A78940
Included Lab Sample IDs: 1927905, 1927906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	103	P/P	90 - 110
Sulfate	102	101	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A78958
Included Lab Sample IDs: 1927905, 1927906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A78958
Included Lab Sample IDs: 1927905, 1927906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.6	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A78966
Included Lab Sample IDs: 1927907, 1927908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	99.7	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A79031
Included Lab Sample IDs: 1927907, 1927908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.9	95.5	P/P	90 - 110
Organic Carbon	95.5	95.2	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				2.87	
EPA 300.0 Rev. 2.1	Chloride	100	94.5 95.9		9.59	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 300.0 Rev. 2.1	Sulfate	101	92.0	98.6		5.51	
EPA 350.1 Rev. 2.0	Ammonia-N	105	100	98.8			0.844
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	98.4	97.5			0.560
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	107	108	108			0.926
EPA 365.1 Rev. 2.0	Total-P	96.9	93.6	92.6			0.997
	Total-P	104	95.7	97.9			2.05
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	95.7	96.5			0.832
SM 2120 B	Color (true)					4.24	
	Color (true)					0.209	
SM 2320 B-97	Total Alkalinity	101				0.249	
SM 2540 C-97	TDS					2.29	
SM 4500 F-C-97	Fluoride	95.4	98.1	97.4			0.473
SM 5310 B-00	Organic Carbon	95.8	93.6	95.0			1.33

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1927905, 1927906
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1927905, 1927906
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1927905, 1927906
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1927907, 1927908
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1927907, 1927908
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1927907, 1927908
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1927907, 1927908
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1927909, 1927910
SM 2120 B / E31780	True Color measured at 450 nm	1927905, 1927906
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1927905, 1927906
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1927905, 1927906
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1927905, 1927906
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1927905, 1927906
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1927907, 1927908

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	09/06/2017			09/06/2017 17:24	DeAsia Armster	1927905, 1927906
EPA 300.0 Rev. 2.1	09/06/2017			09/15/2017	Julia Storbeck	1927905, 1927906
EPA 350.1 Rev. 2.0	09/06/2017			09/13/2017	Sofia Elnemr	1927907, 1927908
EPA 351.2 Rev. 2.0	09/06/2017	09/13/2017	Adrian Shelby	09/18/2017	Joseph Suarez	1927907, 1927908
EPA 353.2 Rev. 2.0	09/06/2017			09/13/2017	Beverly Y. Sanders	1927907, 1927908
EPA 365.1 Rev. 2.0	09/06/2017	09/13/2017	Sima Feizi	09/14/2017	Lipi Saha	1927907, 1927908
EPA 365.1 Rev. 2.0 dissolved	09/06/2017			09/06/2017 14:44	Megan Treadwell	1927909
	09/06/2017			09/06/2017 14:45	Megan Treadwell	1927910
SM 2120 B	09/06/2017			09/06/2017 16:29	Tanya Welborn	1927906
	09/06/2017			09/06/2017 16:36	Tanya Welborn	1927905
SM 2320 B-97	09/06/2017			09/15/2017	Dale L. Simmons	1927905, 1927906
SM 2540 C-97	09/06/2017			09/08/2017	Yijie Li	1927905, 1927906
SM 2540 D-97	09/06/2017			09/08/2017	Yijie Li	1927905, 1927906
SM 4500 F-C-97	09/06/2017			09/15/2017	Dale L. Simmons	1927905, 1927906
SM 5310 B-00	09/06/2017			09/19/2017	Ping Hua	1927907, 1927908