

Chemical Analysis Report

NE-DIST-2017-04-06-01

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

Event Description: **UEC North**
Request ID: **RQ-2017-03-27-04**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 24-APR-2017 10:53



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: Deep Creek 1.25 mi. N of Pine Island Rd.

Collection Date/Time: 04/05/2017 08:45

Field ID: G5NE0017 04052017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1886306	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P322941	
	EPA 300.0 Rev. 2.1	Chloride	31		mg Cl/L	P323309	
		Sulfate	9.4		mg SO4/L	P323488	
	SM 2120 B	Color (true)	460		PCU	P322898	
	SM 2320 B-97	Total Alkalinity	38		mg CaCO3/L	P323458	
	SM 2540 C-97	TDS	186		mg/L	P323695	
	SM 2540 D-97	TSS	8	I	mg/L	P323612	
	SM 4500 F-C-97	Fluoride	0.038	I	mg F/L	P323411	
1886308	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P322924	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P322933	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010		mg N/L	P323065	
	EPA 365.1 Rev. 2.0	Total-P	0.053		mg P/L	P322967	
	SM 5310 B-00	Organic Carbon	43		mg C/L	P322984	
1886310	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.033		mg P/L	P322913	

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: Wildwood Crk @ Wildwood Rd.

Collection Date/Time: 04/05/2017 11:15

Field ID: G5NE0194 04052017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1886307	EPA 180.1 Rev. 2.0	Turbidity	9.4		NTU	P322941	
	EPA 300.0 Rev. 2.1	Chloride	42		mg Cl/L	P323309	
		Sulfate	21		mg SO4/L	P323488	
	SM 2120 B	Color (true)	200		PCU	P322898	
	SM 2320 B-97	Total Alkalinity	40		mg CaCO3/L	P323458	
	SM 2540 C-97	TDS	209		mg/L	P323695	
	SM 2540 D-97	TSS	34		mg/L	P323612	
	SM 4500 F-C-97	Fluoride	0.063	I	mg F/L	P323411	
1886309	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P322924	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.79		mg N/L	P322933	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.50		mg N/L	P323065	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P322968	
	SM 5310 B-00	Organic Carbon	26		mg C/L	P322984	
1886311	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.061		mg P/L	P322913	

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: P322941

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: P323309

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323488

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322924

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322933

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323065

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322967

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322968

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322913

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

Reference Method: SM 2120 B
Batch ID: P322898

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P323458

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

Reference Method: SM 2540 C-97
Batch ID: P323695

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P323612

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P323411

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P322984

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: P323309

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323488

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322924

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322933

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322933

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323065

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322967

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322968

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322913

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.0		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P323458

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

Reference Method: SM 4500 F-C-97
Batch ID: P323411

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P322984

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323309

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: P323309

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886504	Chloride	91.5		P	90 - 110
1886505	Chloride	92.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323488

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886504	Sulfate	99.2		P	90 - 110
1886505	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322924

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886308	Ammonia-N	101	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322933

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886268	Kjeldahl Nitrogen	100	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323065

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885324	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322967

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886204	Total-P	108	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886323	Total-P	106	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886272	O-Phosphate-P	99.6	100	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P323411

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886201	Fluoride	99.7	99.0	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P322984

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886120	Organic Carbon	96.5	96.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P322941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886203	Turbidity	8.49	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P323309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886505	Chloride	0.490	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P323488

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886505	Sulfate	0.130	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P322924

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886308	Ammonia-N	1.43	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P322933

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886268	Kjeldahl Nitrogen	3.05	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P323065

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885324	NO2NO3-N	0.471	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886204	Total-P	2.68	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886323	Total-P	1.59	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886272	O-Phosphate-P	0.401	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P322898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886203	Color (true)	1.53	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P323458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886201	Total Alkalinity	0.201	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P323695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886395	TDS	0.364	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P323411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886201	Fluoride	0.473	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P322984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886120	Organic Carbon	0.353	Spike	P	0 - 20

Quality Assurance Report Precision

* 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: A75617

Included Lab Sample IDs: 1886306, 1886307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A75624

Included Lab Sample IDs: 1886310, 1886311

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.3	96.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A75627

Included Lab Sample IDs: 1886308, 1886309

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A75637

Included Lab Sample IDs: 1886306, 1886307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.5	P/P	95 - 105

Reference Method: SM 5310 B-00

Run ID: A75659

Included Lab Sample IDs: 1886308, 1886309

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	97.7	P/P	90 - 110
Organic Carbon	98.0	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75681

Included Lab Sample IDs: 1886308, 1886309

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	103	P/P	90 - 110
Total-P	105	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A75691

Included Lab Sample IDs: 1886308, 1886309

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A75691
Included Lab Sample IDs: 1886308, 1886309

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A75706
Included Lab Sample IDs: 1886308, 1886309

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A75760
Included Lab Sample IDs: 1886306, 1886307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	91.5	92.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A75780
Included Lab Sample IDs: 1886306, 1886307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	95.3	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A75789
Included Lab Sample IDs: 1886306, 1886307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	99.1	P/P	90 - 110
Fluoride	99.1	98.0	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A75798
Included Lab Sample IDs: 1886306, 1886307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	102	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				8.49	
EPA 300.0 Rev. 2.1	Chloride	92.9	92.1 91.5		0.490	
	Sulfate	100	99.0 99.2		0.130	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 350.1 Rev. 2.0	Ammonia-N	102	101	99.4			1.43
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.4	100	105			3.05
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	103	106	106			0.471
EPA 365.1 Rev. 2.0	Total-P	102	108	105			2.68
	Total-P	103	106	104			1.59
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.0	99.6	100			0.401
SM 2120 B	Color (true)					1.53	
SM 2320 B-97	Total Alkalinity	104				0.201	
SM 2540 C-97	TDS					0.364	
SM 4500 F-C-97	Fluoride	98.7	99.7	99.0			0.473
SM 5310 B-00	Organic Carbon	97.3	96.5	96.8			0.353

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1886306, 1886307
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1886306, 1886307
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1886306, 1886307
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1886308, 1886309
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1886308, 1886309
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1886308, 1886309
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1886308, 1886309
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1886310, 1886311
SM 2120 B / E31780	True Color measured at 450 nm	1886306, 1886307
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1886306, 1886307
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1886306, 1886307
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1886306, 1886307
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1886306, 1886307
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1886308, 1886309

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	04/06/2017			04/06/2017 16:36	Sima Feizi	1886306, 1886307
EPA 300.0 Rev. 2.1	04/06/2017			04/13/2017	Ping Hua	1886306, 1886307
	04/06/2017			04/14/2017	Ping Hua	1886306, 1886307
EPA 350.1 Rev. 2.0	04/06/2017			04/06/2017	Julie Michelle Frank	1886308, 1886309
EPA 351.2 Rev. 2.0	04/06/2017	04/07/2017	Adrian Shelby	04/10/2017	Joseph Suarez	1886308, 1886309
EPA 353.2 Rev. 2.0	04/06/2017			04/11/2017	Beverly Y. Sanders	1886308, 1886309
EPA 365.1 Rev. 2.0	04/06/2017	04/07/2017	Vijayalakshmi Reddy	04/10/2017	Lipi Saha	1886308, 1886309
EPA 365.1 Rev. 2.0 dissolved	04/06/2017			04/06/2017 15:01	Anthony C. Onicha	1886310
	04/06/2017			04/06/2017 15:02	Anthony C. Onicha	1886311
SM 2120 B	04/06/2017			04/06/2017 15:41	Julia Storbeck	1886306
	04/06/2017			04/06/2017 15:42	Julia Storbeck	1886307
SM 2320 B-97	04/06/2017			04/15/2017	Dale L. Simmons	1886306, 1886307
SM 2540 C-97	04/06/2017			04/11/2017	Sima Feizi	1886306, 1886307
SM 2540 D-97	04/06/2017			04/11/2017	Sima Feizi	1886306, 1886307
SM 4500 F-C-97	04/06/2017			04/14/2017	Dale L. Simmons	1886306, 1886307
SM 5310 B-00	04/06/2017			04/07/2017	Julie Michelle Frank	1886308, 1886309