

Chemical Analysis Report

CEN-DIST-2020-11-05-01

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

Event Description: **John's Lake Outlet/Minnie**
Request ID: **RQ-2020-10-26-14**
Customer: **CEN-DIST**
Project ID: **SMP**

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Date Certified: 30-NOV-2020 15:35



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 by the Florida Department of Health Environmental Laboratory Certification Program 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: Johns Lake @ Conservation Area Dock

Collection Date/Time: 11/04/2020 13:47

Field ID: G1CE0111

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2206538	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P389827	
	EPA 300.0 Rev. 2.1	Chloride	25		mg Cl/L	P390001	
		Sulfate	6.2		mg SO4/L	P390003	
	SM 2120 B-2011	Color (true)	190		PCU	P389823	
	SM 2320 B-2011	Total Alkalinity	43		mg CaCO3/L	P389921	
	SM 2540 C-2011	TDS	150	A	mg/L	P390114	
	SM 2540 D-2011	TSS	2	UA	mg/L	P389985	
	SM 4500 F-C-2011	Fluoride	0.097	I	mg F/L	P390099	
2206539	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P389894	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.78		mg N/L	P389866	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.061		mg N/L	P389862	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P389875	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P389908	
2206540	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.11		mg P/L	P389841	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Blue Lake @ Center

Collection Date/Time: 11/04/2020 11:46

Field ID: G2CE0232

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2206541	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P389827	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P390001	
		Sulfate	4.7		mg SO4/L	P390003	
	SM 2120 B-2011	Color (true)	310		PCU	P389823	
	SM 2320 B-2011	Total Alkalinity	30		mg CaCO3/L	P389921	
	SM 2540 C-2011	TDS	148		mg/L	P390114	
	SM 2540 D-2011	TSS	2	U	mg/L	P389985	
2206542	SM 4500 F-C-2011	Fluoride	0.047	I	mg F/L	P390099	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P389894	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P389866	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P389862	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P389877	
	SM 5310 B-2011	Organic Carbon	31		mg C/L	P389908	
2206543	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P389841	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-2011: 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: P389827

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P390001

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P390003

Component	Result	Code	Units
Sulfate	0.20	U	mg SO ₄ /L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P389894

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389866

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389862

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389875

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389877

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P389841

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P389823

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P389921

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

Reference Method: SM 2540 C-2011
Batch ID: P390114

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P389985

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P390099

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P389908

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: P390001

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P390003

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P389894

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389866

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389862

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389875

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389877

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P389841

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

Reference Method: SM 2120 B-2011
Batch ID: P389823

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P389921

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.9		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P390099

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.4		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P389908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	103		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P390001

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206419	Chloride	97.9		P	90 - 110
2206641	Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P390003

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206419	Sulfate	98.7		P	90 - 110
2206641	Sulfate	99.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P389894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206642	Ammonia-N	103	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389866

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206490	Kjeldahl Nitrogen	105	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206444	NO2NO3-N	98.0	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206420	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206542	Total-P	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P389841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206643	O-Phosphate-P	101	102	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P390099

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206538	Fluoride	97.6	98.8	P/P	94 - 107

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P389908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2206539	Organic Carbon	102	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P389827

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206519	Turbidity	1.27	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P390001

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206419	Chloride	0.0652	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P389894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206642	Ammonia-N	1.14	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389866

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206490	Kjeldahl Nitrogen	1.59	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206444	NO2NO3-N	1.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206420	Total-P	0.193	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206542	Total-P	1.71	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P389841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206643	O-Phosphate-P	0.987	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P389823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206459	Color (true)	0.720	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P389921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206519	Total Alkalinity	0.478	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P390114

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206538	TDS	0.669	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P390099

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206538	Fluoride	0.984	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P389908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2206539	Organic Carbon	0.272	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A101998

Included Lab Sample IDs: 2206538, 2206541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	104	105	P/P	90 - 115
Color (true)	105	106	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A102000

Included Lab Sample IDs: 2206538, 2206541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.5	97.5	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A102001

Included Lab Sample IDs: 2206540, 2206543

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A102010

Included Lab Sample IDs: 2206539, 2206542

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	97.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A102027

Included Lab Sample IDs: 2206539, 2206542

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.6	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A102035

Included Lab Sample IDs: 2206539, 2206542

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A102039

Included Lab Sample IDs: 2206539

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A102049

Included Lab Sample IDs: 2206538, 2206541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.0	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A102057

Included Lab Sample IDs: 2206539, 2206542

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	104	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A102065

Included Lab Sample IDs: 2206538, 2206541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.4	98.4	P/P	90 - 110
Sulfate	99.8	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A102110

Included Lab Sample IDs: 2206542

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

Reference Method: SM 4500 F-C-2011

Run ID: A102147

Included Lab Sample IDs: 2206538, 2206541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	96.5	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					1.27	
EPA 300.0 Rev. 2.1	Chloride	99.3	97.9	99.3		0.0652	
	Sulfate	100	98.7	99.8			
EPA 350.1 Rev. 2.0	Ammonia-N	98.9	103	104			1.14
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109	105	102			1.59
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	97.5	98.0	97.0			1.03
EPA 365.1 Rev. 2.0	Total-P	103	104	104			0.193
	Total-P	105	100	102			1.71
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	101	102			0.987
SM 2120 B-2011	Color (true)	103				0.720	
SM 2320 B-2011	Total Alkalinity	99.9				0.478	
SM 2540 C-2011	TDS					0.669	
SM 4500 F-C-2011	Fluoride	94.4	97.6	98.8			0.984
SM 5310 B-2011	Organic Carbon	103	102	102			0.272

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2206538, 2206541
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2206538, 2206541
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2206538, 2206541
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2206539, 2206542
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2206539, 2206542
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2206539, 2206542
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2206539, 2206542
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2206540, 2206543
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2206538, 2206541
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2206538, 2206541
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2206538, 2206541
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2206538, 2206541
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2206538, 2206541
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2206539, 2206542

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	11/05/2020			11/05/2020 15:01	Yen Ta	2206538, 2206541
EPA 300.0 Rev. 2.1	11/05/2020			11/10/2020 17:36	Lipi Saha	2206538
	11/05/2020			11/10/2020 17:49	Lipi Saha	2206541
EPA 350.1 Rev. 2.0	11/05/2020			11/07/2020 12:40	Ping Hua	2206539
	11/05/2020			11/07/2020 12:41	Ping Hua	2206542
EPA 351.2 Rev. 2.0	11/05/2020	11/06/2020 12:50	David Boose	11/09/2020 14:10	Elliott Rodriguez	2206539
	11/05/2020	11/06/2020 12:50	David Boose	11/09/2020 14:11	Elliott Rodriguez	2206542
EPA 353.2 Rev. 2.0	11/05/2020			11/06/2020 11:03	Beverly Y. Sanders	2206539
	11/05/2020			11/06/2020 11:05	Beverly Y. Sanders	2206542
EPA 365.1 Rev. 2.0	11/05/2020	11/06/2020 13:18	Yen Ta	11/09/2020 09:11	Benjamin T. Nordmann	2206539
	11/05/2020	11/06/2020 13:18	Yen Ta	11/12/2020 11:26	Shengyu Wang	2206542
EPA 365.1 Rev. 2.0 dissolved	11/05/2020			11/05/2020 16:01	Blanca Fach	2206543
	11/05/2020			11/05/2020 16:22	Blanca Fach	2206540
SM 2120 B-2011	11/05/2020			11/05/2020 15:55	Benjamin T. Nordmann	2206538
	11/05/2020			11/05/2020 16:01	Benjamin T. Nordmann	2206541
SM 2320 B-2011	11/05/2020			11/07/2020 03:59	Dale L. Simmons	2206538
	11/05/2020			11/07/2020 04:11	Dale L. Simmons	2206541
SM 2540 C-2011	11/05/2020			11/06/2020 19:55	Madeline Gruver	2206538, 2206541
SM 2540 D-2011	11/05/2020			11/06/2020 19:56	Madeline Gruver	2206538, 2206541
SM 4500 F-C-2011	11/05/2020			11/13/2020 17:10	Dale L. Simmons	2206538
	11/05/2020			11/13/2020 18:32	Dale L. Simmons	2206541
SM 5310 B-2011	11/05/2020			11/06/2020 20:54	Touraj Touran	2206539
	11/05/2020			11/06/2020 23:08	Touraj Touran	2206542