

Chemical Analysis Report

CEN-DIST-2020-07-29-01

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

Event Description: **Ingram + Searcy**
Request ID: **RQ-2020-07-27-49**
Customer: **CEN-DIST**
Project ID: **SMP**

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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 17-AUG-2020 11:57

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

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: Lake Lotta @ Center of Southern Lobe

Collection Date/Time: 07/28/2020 11:34

Field ID: G2CE0093

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186871	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P385365	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P385626	
		Sulfate	13		mg SO4/L	P385630	
	SM 2120 B-2011	Color (true)	73		PCU	P385355	
	SM 2320 B-2011	Total Alkalinity	56		mg CaCO3/L	P385441	
	SM 2540 C-2011	TDS	131		mg/L	P385782	
	SM 2540 D-2011	TSS	3	I	mg/L	P385784	
	SM 4500 F-C-2011	Fluoride	0.12		mg F/L	P385444	
2186873	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P385478	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.88		mg N/L	P385417	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P385369	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P385868	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P385450	
2186875	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	I	mg P/L	P385326	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lake Searcy @ center

Collection Date/Time: 07/28/2020 10:24

Field ID: G2CE0137

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186872	EPA 180.1 Rev. 2.0	Turbidity	6.2		NTU	P385365	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P385626	
		Sulfate	4.2		mg SO4/L	P385630	
	SM 2120 B-2011	Color (true)	63		PCU	P385355	
	SM 2320 B-2011	Total Alkalinity	32		mg CaCO3/L	P385441	
	SM 2540 C-2011	TDS	92		mg/L	P385782	
	SM 2540 D-2011	TSS	5	I	mg/L	P385784	
	SM 4500 F-C-2011	Fluoride	0.078	I	mg F/L	P385444	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.054		mg N/L	P385478	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P385420	
2186874	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P385369	
	EPA 365.1 Rev. 2.0	Total-P	0.046		mg P/L	P385868	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P385450	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P385326	
	dissolved						

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P385365

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385626

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385630

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385478

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385417

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385420

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385369

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: P385868

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385326

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: P385355

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P385441

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

Reference Method: SM 2540 C-2011
Batch ID: P385782

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P385784

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P385444

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P385450

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: P385626

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385630

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385478

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385417

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385420

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: P385369

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: P385868

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.1		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P385355

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P385441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P385444

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.5		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P385450

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385626

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186495	Chloride	103		P	90 - 110
2186871	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186495	Sulfate	103		P	90 - 110
2186871	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385478

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186719	Ammonia-N	98.4	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186809	Kjeldahl Nitrogen	113	102	F/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385420

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186904	Kjeldahl Nitrogen	106	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385369

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186809	NO2NO3-N	97.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186720	O-Phosphate-P	100	99.0	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P385444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186828	Fluoride	100	101	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P385450

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186874	Organic Carbon	93.2	87.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P385365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186808	Turbidity	6.21	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385626

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186495	Chloride	0.543	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186495	Sulfate	0.959	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385478

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186719	Ammonia-N	0.779	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186809	Kjeldahl Nitrogen	6.26	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186904	Kjeldahl Nitrogen	0.0290	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186809	NO2NO3-N	0.745	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189028	Total-P	0.671	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P385326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186720	O-Phosphate-P	0.846	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
 Batch ID: P385355

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186808	Color (true)	1.72	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P385441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186828	Total Alkalinity	0.282	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
 Batch ID: P385782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186718	TDS	0.428	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P385444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186828	Fluoride	0.454	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
 Batch ID: P385450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186874	Organic Carbon	3.70	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A100153

Included Lab Sample IDs: 2186875, 2186876

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.0	99.0	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A100169

Included Lab Sample IDs: 2186871, 2186872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A100175

Included Lab Sample IDs: 2186873, 2186874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A100176

Included Lab Sample IDs: 2186871, 2186872

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

Reference Method: SM 2320 B-2011

Run ID: A100200

Included Lab Sample IDs: 2186871, 2186872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	98.8	P/P	90 - 110
Total Alkalinity	98.8	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A100200

Included Lab Sample IDs: 2186871, 2186872

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

Reference Method: SM 5310 B-2011

Run ID: A100203

Included Lab Sample IDs: 2186873, 2186874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	96.6	P/P	90 - 110
Organic Carbon	98.8	96.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A100212

Included Lab Sample IDs: 2186873, 2186874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A100234

Included Lab Sample IDs: 2186873, 2186874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	94.8	P/P	90 - 110
Kjeldahl Nitrogen	94.8	103	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A100267

Included Lab Sample IDs: 2186871, 2186872

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100427

Included Lab Sample IDs: 2186873, 2186874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	98.0	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					6.21	
EPA 300.0 Rev. 2.1	Chloride	105	103	104		0.543	
	Sulfate	105	103	104		0.959	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	98.4	97.4			0.779
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	113	102			6.26
	Kjeldahl Nitrogen	108	106	106			0.0290
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	97.2				0.745
EPA 365.1 Rev. 2.0	Total-P	101					0.671
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1	100	99.0			0.846
SM 2120 B-2011	Color (true)	102				1.72	
SM 2320 B-2011	Total Alkalinity	98.6				0.282	
SM 2540 C-2011	TDS					0.428	
SM 4500 F-C-2011	Fluoride	99.5	100	101			0.454
SM 5310 B-2011	Organic Carbon	97.8	93.2	87.8			3.70

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2186871, 2186872
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2186871, 2186872
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2186871, 2186872
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2186873, 2186874
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2186873, 2186874
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2186873, 2186874
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2186873, 2186874
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2186875, 2186876
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2186871, 2186872
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2186871, 2186872
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2186871, 2186872
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2186871, 2186872
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2186871, 2186872
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2186873, 2186874

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	07/29/2020			07/29/2020 16:15	Blanca Fach	2186871, 2186872
EPA 300.0 Rev. 2.1	07/29/2020			08/01/2020 09:06	Julia Storbeck	2186871
	07/29/2020			08/01/2020 12:07	Julia Storbeck	2186872
EPA 350.1 Rev. 2.0	07/29/2020			08/01/2020 17:31	Ping Hua	2186874
	07/29/2020			08/01/2020 17:37	Ping Hua	2186873
EPA 351.2 Rev. 2.0	07/29/2020	07/31/2020 10:40	Jhamieka S. Greenwood	08/03/2020 15:27	Julia Storbeck	2186873
	07/29/2020	07/31/2020 10:40	Jhamieka S. Greenwood	08/03/2020 15:40	Julia Storbeck	2186874
EPA 353.2 Rev. 2.0	07/29/2020			07/30/2020 08:45	Beverly Y. Sanders	2186873
	07/29/2020			07/30/2020 08:46	Beverly Y. Sanders	2186874
EPA 365.1 Rev. 2.0	07/29/2020	08/11/2020 11:28	Yen Ta	08/13/2020 08:10	Lipi Saha	2186873
	07/29/2020	08/11/2020 11:28	Yen Ta	08/13/2020 08:11	Lipi Saha	2186874
EPA 365.1 Rev. 2.0 dissolved	07/29/2020			07/29/2020 15:10	Virginia P. Brown	2186875
	07/29/2020			07/29/2020 15:11	Virginia P. Brown	2186876
SM 2120 B-2011	07/29/2020			07/29/2020 15:24	Madeline Gruver	2186871
	07/29/2020			07/29/2020 15:25	Madeline Gruver	2186872
SM 2320 B-2011	07/29/2020			07/30/2020 19:28	Dale L. Simmons	2186871
	07/29/2020			07/30/2020 20:04	Dale L. Simmons	2186872
SM 2540 C-2011	07/29/2020			08/03/2020 15:02	Yijie Li	2186871, 2186872
SM 2540 D-2011	07/29/2020			08/03/2020 15:02	Yijie Li	2186871, 2186872
SM 4500 F-C-2011	07/29/2020			07/30/2020 19:28	Dale L. Simmons	2186871
	07/29/2020			07/30/2020 20:04	Dale L. Simmons	2186872
SM 5310 B-2011	07/29/2020			07/31/2020 02:43	David Boose	2186874
	07/29/2020			07/31/2020 05:58	David Boose	2186873