

Chemical Analysis Report

CEN-DIST-2020-10-27-02

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

Event Description: **Faulk/Felter**
Request ID: **RQ-2020-10-19-28**
Customer: **CEN-DIST**
Project ID: **SMP**

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 18-NOV-2020 15:50

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 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 Felter @ Center

Collection Date/Time: 10/26/2020 11:07

Field ID: G1CE0042

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2204834	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P389347	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P389803	
		Sulfate	0.87		mg SO4/L	P389806	
	SM 2120 B-2011	Color (true)	68		PCU	P389354	
	SM 2320 B-2011	Total Alkalinity	17		mg CaCO3/L	P389619	
	SM 2540 C-2011	TDS	68		mg/L	P389855	
	SM 2540 D-2011	TSS	2	I	mg/L	P389870	
	SM 4500 F-C-2011	Fluoride	0.070	I	mg F/L	P389623	
2204835	EPA 350.1 Rev. 2.0	Ammonia-N	0.046		mg N/L	P389579	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P389631	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P389369	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P389541	
	SM 5310 B-2011	Organic Carbon	21		mg C/L	P389444	
2204836	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P389359	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: FB102620

Collection Date/Time: 10/26/2020 11:13

Field ID: FB102620

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2204837	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P389347	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P389803	
		Sulfate	0.20	U	mg SO4/L	P389806	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P389354	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P389620	
	SM 2540 C-2011	TDS	15	U	mg/L	P389854	
	SM 2540 D-2011	TSS	2	U	mg/L	P389869	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P389624	
2204838	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P389579	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P389631	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P389369	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P389541	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P389444	
2204839	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P389359	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: 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: P389347

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389803

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389806

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P389579

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389631

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389369

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389541

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P389359

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

Reference Method: SM 2120 B-2011
Batch ID: P389354

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P389619

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

Reference Method: SM 2320 B-2011
Batch ID: P389620

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

Reference Method: SM 2540 C-2011
Batch ID: P389854

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P389855

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P389869

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P389870

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P389623

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P389624

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P389444

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: P389803

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P389806

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P389579

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P389631

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P389369

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: P389541

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: P389359

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

Reference Method: SM 2120 B-2011
 Batch ID: P389354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.8		P	85 - 115

Reference Method: SM 2320 B-2011
 Batch ID: P389619

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.2		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P389620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.8		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P389623

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	90 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P389624

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P389444

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389803

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204621	Chloride	98.8		P	90 - 110
2204770	Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389806

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204621	Sulfate	98.5		P	90 - 110
2204770	Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P389579

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204727	Ammonia-N	104	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389369

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204835	NO2NO3-N	98.0	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389541

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204835	Total-P	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P389359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204845	O-Phosphate-P	99.9	99.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P389623

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204776	Fluoride	102	102	P/P	94 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P389624

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204843	Fluoride	102	102	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P389444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204856	Organic Carbon	96.1	93.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P389347

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204853	Turbidity	0.866	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204621	Chloride	0.759	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389806

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204621	Sulfate	0.782	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P389579

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204727	Ammonia-N	0.212	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204835	Kjeldahl Nitrogen	3.55	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204835	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389541

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204835	Total-P	0.138	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P389359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204845	O-Phosphate-P	0.685	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P389354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204724	Color (true)	2.24	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P389619

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204776	Total Alkalinity	1.12	Sample	P	0 - 8.1

Reference Method: SM 2320 B-2011
Batch ID: P389620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204843	Total Alkalinity	0.970	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P389854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204718	TDS	1.46	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P389855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204802	TDS	2.47	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P389623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204776	Fluoride	0.477	Spike	P	0 - 2.8

Reference Method: SM 4500 F-C-2011
Batch ID: P389624

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204843	Fluoride	0.509	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P389444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204856	Organic Carbon	1.37	Spike	P	0 - 20

Quality Assurance Report

Precision

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A101802

Included Lab Sample IDs: 2204834, 2204837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A101804

Included Lab Sample IDs: 2204834, 2204837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A101806

Included Lab Sample IDs: 2204836, 2204839

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A101812

Included Lab Sample IDs: 2204835, 2204838

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

Reference Method: SM 5310 B-2011

Run ID: A101846

Included Lab Sample IDs: 2204835, 2204838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	98.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A101890

Included Lab Sample IDs: 2204835, 2204838

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

Reference Method: SM 2320 B-2011

Run ID: A101910

Included Lab Sample IDs: 2204834, 2204837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.6	97.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A101910

Included Lab Sample IDs: 2204834, 2204837

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A101941

Included Lab Sample IDs: 2204835, 2204838

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A101949

Included Lab Sample IDs: 2204834, 2204837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.4	99.2	P/P	90 - 110
Sulfate	98.3	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A101953

Included Lab Sample IDs: 2204835, 2204838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	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		Precision	
					LCS	MS
EPA 180.1 Rev. 2.0	Turbidity				0.866	
EPA 300.0 Rev. 2.1	Chloride	99.7	98.8	98.9	0.759	
	Sulfate	99.3	98.5	98.9	0.782	
EPA 350.1 Rev. 2.0	Ammonia-N	101	104	104		0.212
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106				3.55
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	98.0	98.0		0.0
EPA 365.1 Rev. 2.0	Total-P	104	105	105		0.138
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	99.9	99.1		0.685
SM 2120 B-2011	Color (true)	99.8			2.24	
SM 2320 B-2011	Total Alkalinity	99.2			1.12	
	Total Alkalinity	98.8			0.970	
SM 2540 C-2011	TDS				1.46	
	TDS				2.47	
SM 4500 F-C-2011	Fluoride	97.5	102	102		0.477
	Fluoride	101	102	102		0.509
SM 5310 B-2011	Organic Carbon	97.5	96.1	93.6		1.37

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2204834, 2204837
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2204834, 2204837
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2204834, 2204837
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2204835, 2204838
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2204835, 2204838
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2204835, 2204838
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2204835, 2204838
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2204836, 2204839
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2204834, 2204837
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2204834, 2204837
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2204834, 2204837
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2204834, 2204837
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2204834, 2204837
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2204835, 2204838

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	10/27/2020			10/27/2020 15:30	Yen Ta	2204834, 2204837
EPA 300.0 Rev. 2.1	10/27/2020			11/04/2020 19:07	Lipi Saha	2204834
	10/27/2020			11/04/2020 19:20	Lipi Saha	2204837
EPA 350.1 Rev. 2.0	10/27/2020			10/31/2020 15:14	Ping Hua	2204835
	10/27/2020			10/31/2020 15:18	Ping Hua	2204838
EPA 351.2 Rev. 2.0	10/27/2020	11/02/2020 13:30	David Boose	11/03/2020 16:07	Elliott Rodriguez	2204835
	10/27/2020	11/02/2020 13:30	David Boose	11/03/2020 16:24	Elliott Rodriguez	2204838
EPA 353.2 Rev. 2.0	10/27/2020			10/28/2020 09:42	Beverly Y. Sanders	2204835
	10/27/2020			10/28/2020 09:48	Beverly Y. Sanders	2204838
EPA 365.1 Rev. 2.0	10/27/2020	10/30/2020 16:48	Yen Ta	11/04/2020 11:56	Shengyu Wang	2204835
	10/27/2020	10/30/2020 16:48	Yen Ta	11/04/2020 11:59	Shengyu Wang	2204838
EPA 365.1 Rev. 2.0 dissolved	10/27/2020			10/27/2020 16:22	Blanca Fach	2204836
	10/27/2020			10/27/2020 16:23	Blanca Fach	2204839
SM 2120 B-2011	10/27/2020			10/27/2020 16:27	Benjamin T. Nordmann	2204834
	10/27/2020			10/27/2020 16:28	Benjamin T. Nordmann	2204837
SM 2320 B-2011	10/27/2020			10/31/2020 02:02	Samantha Davila	2204834
	10/27/2020			10/31/2020 03:42	Samantha Davila	2204837
SM 2540 C-2011	10/27/2020			10/29/2020 15:08	Yijie Li	2204834, 2204837
SM 2540 D-2011	10/27/2020			10/29/2020 15:08	Yijie Li	2204834, 2204837
SM 4500 F-C-2011	10/27/2020			10/31/2020 02:02	Samantha Davila	2204834
	10/27/2020			10/31/2020 03:42	Samantha Davila	2204837
SM 5310 B-2011	10/27/2020			10/28/2020 23:00	Touraj Touran	2204835
	10/27/2020			10/28/2020 23:12	Touraj Touran	2204838