

Chemical Analysis Report

SO-DIST-2022-03-18-01

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

Event Description: **2022 SMP: Lake Placid**
Request ID: **RQ-2022-03-21-41**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
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Certified by: Colin Wright, Program Administrator

Date Certified: 11-APR-2022 08:38

A handwritten signature in black ink, appearing to read "Colin Wright", is shown on a light-colored rectangular 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 Placid @ Center

Collection Date/Time: 03/17/2022 11:25

Field ID: G4SD0191

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313263	DEP SOP: NU-094-1	Color (true)**	8.3		PCU	P411304	
	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P411313	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P411369	
		Sulfate	18		mg SO4/L	P411371	
	SM 2320 B-2011	Total Alkalinity	20		mg CaCO3/L	P411602	
	SM 2540 C-2011	TDS	76		mg/L	P411622	
	SM 2540 D-2011	TSS	2	I	mg/L	P411584	
	SM 4500 F-C-2011	Fluoride	0.046	I	mg F/L	P411605	
2313264	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P411553	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P411469	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P411382	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P411461	
	SM 5310 B-2011	Organic Carbon	5.6		mg C/L	P411474	

Sample Location: LakePlacidOutletAtSR70W

Collection Date/Time: 03/17/2022 12:00

Field ID: G4SD0213

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313265	DEP SOP: NU-094-1	Color (true)**	330		PCU	P411304	
	EPA 180.1 Rev. 2.0	Turbidity	7.9		NTU	P411313	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P411369	
		Sulfate	22		mg SO4/L	P411371	
	SM 2320 B-2011	Total Alkalinity	16		mg CaCO3/L	P411602	
	SM 2540 C-2011	TDS	178	A	mg/L	P411622	
	SM 2540 D-2011	TSS	13	A	mg/L	P411584	
	SM 4500 F-C-2011	Fluoride	0.077	I	mg F/L	P411605	
2313266	EPA 350.1 Rev. 2.0	Ammonia-N	0.22		mg N/L	P411552	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	3.0		mg N/L	P411529	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P411382	
	EPA 365.1 Rev. 2.0	Total-P	2.2		mg P/L	P411866	
	SM 5310 B-2011	Organic Carbon	31		mg C/L	P411474	

Ref. Method and Comment:

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: DEP SOP: NU-094-1
Batch ID: P411304

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P411313

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411369

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411371

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411552

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411553

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411469

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411529

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411382

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411461

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411866

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

Reference Method: SM 2320 B-2011
Batch ID: P411602

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

Reference Method: SM 2540 C-2011
Batch ID: P411622

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P411584

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P411605

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P411474

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P411304

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.4		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P411313

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411369

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411371

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411552

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411553

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.3		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411529

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411382

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411461

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411866

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

Reference Method: SM 2320 B-2011
Batch ID: P411602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.4		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P411605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P411474

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411369

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313153	Chloride	100		P	90 - 110
2313263	Chloride	99.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313153	Sulfate	99.8		P	90 - 110
2313263	Sulfate	99.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411552

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313159	Ammonia-N	98.0	98.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411553

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313374	Ammonia-N	97.2	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313157	Kjeldahl Nitrogen	107	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312935	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313339	Total-P	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411866

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313564	Total-P	106	103	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P411605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313867	Fluoride	96.0	94.1	P/P	92 - 107

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P411474

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313160	Organic Carbon	95.3	98.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P411304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313273	Color (true)	0.966	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P411313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313273	Turbidity	11.3	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313153	Chloride	0.134	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313153	Sulfate	0.689	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411552

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313159	Ammonia-N	0.311	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411553

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313374	Ammonia-N	6.37	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313157	Kjeldahl Nitrogen	3.98	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411529

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313098	Kjeldahl Nitrogen	4.76	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312935	NO2NO3-N	0.494	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313339	Total-P	0.449	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411866

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313564	Total-P	2.65	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P411602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313867	Total Alkalinity	0.862	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P411622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313265	TDS	5.04	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P411584

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313265	TSS	6.06	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P411605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313867	Fluoride	0.973	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P411474

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313160	Organic Carbon	2.51	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: DEP SOP: NU-094-1

Run ID: A111030

Included Lab Sample IDs: 2313263, 2313265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.3	100	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A111034

Included Lab Sample IDs: 2313263, 2313265

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A111070

Included Lab Sample IDs: 2313263, 2313265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Chloride	99.8	100	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110
Sulfate	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A111075

Included Lab Sample IDs: 2313264, 2313266

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

Reference Method: SM 5310 B-2011

Run ID: A111102

Included Lab Sample IDs: 2313264, 2313266

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.0	95.2	P/P	90 - 110
Organic Carbon	95.2	94.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111133

Included Lab Sample IDs: 2313264, 2313266

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.8	98.3	P/P	90 - 110
Ammonia-N	98.2	98.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A111156

Included Lab Sample IDs: 2313263, 2313265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	97.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A111156

Included Lab Sample IDs: 2313263, 2313265

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111163

Included Lab Sample IDs: 2313264

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A111178

Included Lab Sample IDs: 2313264

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.3	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A111196

Included Lab Sample IDs: 2313266

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.4	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111306

Included Lab Sample IDs: 2313266

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.1	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
DEP SOP: NU-094-1	Color (true)	99.4			0.966	
EPA 180.1 Rev. 2.0	Turbidity	96.6			11.3	
EPA 300.0 Rev. 2.1	Chloride	100	100	99.5	0.134	
	Sulfate	101	99.8	99.6	0.689	
EPA 350.1 Rev. 2.0	Ammonia-N	96.0	98.0	98.4		0.311
	Ammonia-N	95.8	97.2	105		6.37
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.3	107	102		3.98
	Kjeldahl Nitrogen	102				4.76
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101	102		0.494
EPA 365.1 Rev. 2.0	Total-P	99.8	102	101		0.449
	Total-P	103	106	103		2.65
SM 2320 B-2011	Total Alkalinity	98.4			0.862	
SM 2540 C-2011	TDS				5.04	
SM 2540 D-2011	TSS				6.06	
SM 4500 F-C-2011	Fluoride	97.2	96.0	94.1		0.973
SM 5310 B-2011	Organic Carbon	96.0	95.3	98.3		2.51

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2313263, 2313265
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2313263, 2313265
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2313263, 2313265
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2313263, 2313265
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2313264, 2313266
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2313264, 2313266
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2313264, 2313266
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2313264, 2313266
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2313263, 2313265
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2313263, 2313265
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2313263, 2313265
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2313263, 2313265
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2313264, 2313266

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	03/18/2022			03/18/2022 15:40	Samantha L Bates	2313263
	03/18/2022			03/18/2022 15:41	Samantha L Bates	2313265
EPA 180.1 Rev. 2.0	03/18/2022			03/18/2022 14:59	Khloe J Berg	2313263
	03/18/2022			03/18/2022 15:00	Khloe J Berg	2313265
EPA 300.0 Rev. 2.1	03/18/2022			03/21/2022 23:41	James L Waggeberby	2313263
	03/18/2022			03/22/2022 03:30	James L Waggeberby	2313265
EPA 350.1 Rev. 2.0	03/18/2022			03/24/2022 13:08	Judith K. Clark	2313264
	03/18/2022			03/24/2022 14:04	Judith K. Clark	2313266
EPA 351.2 Rev. 2.0	03/18/2022	03/24/2022 16:17	Samantha L Bates	03/25/2022 18:08	Alexandra J Mattheus	2313264
	03/18/2022	03/25/2022 10:06	Samantha L Bates	03/28/2022 13:47	Alexandra J Mattheus	2313266
EPA 353.2 Rev. 2.0	03/18/2022			03/22/2022 09:40	Beverly Y. Sanders	2313264
	03/18/2022			03/22/2022 09:41	Beverly Y. Sanders	2313266
EPA 365.1 Rev. 2.0	03/18/2022	03/23/2022 17:20	Simonne.V. Calhoun	03/25/2022 15:02	James L Waggeberby	2313264
	03/18/2022	04/04/2022 17:10	Simonne.V. Calhoun	04/05/2022 11:44	Sarah A Nixon	2313266
SM 2320 B-2011	03/18/2022			03/24/2022 23:24	Dale L. Simmons	2313263
	03/18/2022			03/24/2022 23:36	Dale L. Simmons	2313265
SM 2540 C-2011	03/18/2022			03/23/2022 14:22	Yijie Li	2313263, 2313265
SM 2540 D-2011	03/18/2022			03/23/2022 14:22	Yijie Li	2313263, 2313265
SM 4500 F-C-2011	03/18/2022			03/24/2022 23:24	Dale L. Simmons	2313263
	03/18/2022			03/24/2022 23:36	Dale L. Simmons	2313265
SM 5310 B-2011	03/18/2022			03/22/2022 23:28	Khloe J Berg	2313264
	03/18/2022			03/23/2022 00:46	Khloe J Berg	2313266