

Chemical Analysis Report

SW-DIST-2023-01-26-01

Florida DEP Laboratory
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DOH Accreditation E31780

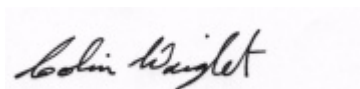
Event Description: **Run 4**
Request ID: **RQ-2023-01-23-47**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
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Certified by: Colin Wright, Program Administrator

Date Certified: 14-FEB-2023 09:13

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink 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: Crystal Lake @ Center

Collection Date/Time: 01/25/2023 10:45

Field ID: G3SW0076

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383496	DEP SOP: NU-094-1	Color (true)	21		PCU	P425044	
	EPA 180.1 Rev. 2.0	Turbidity	7.8		NTU	P425058	
	EPA 300.0 Rev. 2.1	Chloride	9.1	A	mg Cl/L	P425655	
		Sulfate	5.3	A	mg SO4/L	P425659	
	SM 2320 B-2011	Total Alkalinity	36		mg CaCO3/L	P425387	
	SM 2540 C-2015	TDS	85		mg/L	P425428	
	SM 2540 D-2015	TSS	9	I	mg/L	P425334	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P425508	
2383498	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P425612	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P425196	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P425260	
	EPA 365.1 Rev. 2.0	Total-P	0.055		mg P/L	P425181	
	SM 5310 B-2011	Organic Carbon	9.3		mg C/L	P425251	
2383500	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P425053	

Sample Location: Lake Beulah SW

Collection Date/Time: 01/25/2023 10:00

Field ID: G2SW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383497	DEP SOP: NU-094-1	Color (true)	9.9		PCU	P425044	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P425059	
	EPA 300.0 Rev. 2.1	Chloride	3.4		mg Cl/L	P425655	
		Sulfate	2.0		mg SO4/L	P425659	
	SM 2320 B-2011	Total Alkalinity	40		mg CaCO3/L	P425387	
	SM 2540 C-2015	TDS	67		mg/L	P425428	
	SM 2540 D-2015	TSS	2	U	mg/L	P425334	
	SM 4500-F- C-2011	Fluoride	0.22		mg F/L	P425508	
2383499	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P425612	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P425196	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P425260	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P425181	
	SM 5310 B-2011	Organic Carbon	5.7		mg C/L	P425251	
2383501	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P425053	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P425044

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425058

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425059

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425655

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425659

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425612

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425196

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425260

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425181

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P425053

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

Reference Method: SM 2320 B-2011
Batch ID: P425387

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

Reference Method: SM 2540 C-2015
Batch ID: P425428

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P425334

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P425508

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P425251

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: P425044

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425058

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425059

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425655

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425659

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425612

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425196

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425260

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425181

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P425053

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

Reference Method: SM 2320 B-2011
Batch ID: P425387

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.9		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P425428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	98.7		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P425334

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	97.7		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P425508

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.5		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425251

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425655

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383496	Chloride	97.4		P	90 - 110
2383506	Chloride	94.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383496	Sulfate	94.0		P	90 - 110
2383506	Sulfate	90.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383498	Ammonia-N	94.8	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425196

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383517	Kjeldahl Nitrogen	97.0	89.8	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425260

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383442	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425181

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383498	Total-P	105	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P425053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383335	O-Phosphate-P	98.1	98.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P425508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383441	Fluoride	102	102	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425251

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383498	Organic Carbon	95.4	97.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P425044

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383443	Color (true)	0.759	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383317	Turbidity	9.17	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383396	Turbidity	0.377	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383496	Chloride	4.79	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383496	Sulfate	5.75	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383498	Ammonia-N	1.87	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383517	Kjeldahl Nitrogen	6.87	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425260

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383442	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P425181

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383498	Total-P	1.38	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P425053

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383335	O-Phosphate-P	0.204	Spike	P	0 - 20

Reference Method: SM 2320 B-2011

Batch ID: P425387

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383443	Total Alkalinity	1.29	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P425428

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383441	TDS	5.17	Sample	P	0 - 10

Reference Method: SM 2540 D-2015

Batch ID: P425334

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383441	TSS	7.14	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P425508

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383441	Fluoride	0.509	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011

Batch ID: P425251

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383498	Organic Carbon	1.61	Spike	P	0 - 20

* 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: A117120

Included Lab Sample IDs: 2383496, 2383497

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A117123

Included Lab Sample IDs: 2383500, 2383501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.3	98.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117125

Included Lab Sample IDs: 2383496, 2383497

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105
Turbidity	101	100	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117200

Included Lab Sample IDs: 2383498

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.7	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A117202

Included Lab Sample IDs: 2383498, 2383499

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	100	99.4	P/P	90 - 110
Organic Carbon	99.9	99.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117205

Included Lab Sample IDs: 2383498, 2383499

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117206

Included Lab Sample IDs: 2383499

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117263

Included Lab Sample IDs: 2383498, 2383499

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117263

Included Lab Sample IDs: 2383498, 2383499

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.4	90.9	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A117269

Included Lab Sample IDs: 2383496, 2383497

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.1	99.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117311

Included Lab Sample IDs: 2383496, 2383497

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117317

Included Lab Sample IDs: 2383496, 2383497

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.1	99.7	P/P	90 - 110
Sulfate	97.1	99.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117354

Included Lab Sample IDs: 2383498, 2383499

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.6	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)	101			0.759	
EPA 180.1 Rev. 2.0	Turbidity	100			9.17	
	Turbidity	102			0.377	
EPA 300.0 Rev. 2.1	Chloride	98.0	97.4	94.8	4.79	
	Sulfate	95.7	94.0	90.6	5.75	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	94.8	96.8		1.87
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	97.0	89.8		6.87
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	106	103	103		0.0
EPA 365.1 Rev. 2.0	Total-P	104	105	103		1.38
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	98.1	98.3		0.204
SM 2320 B-2011	Total Alkalinity	96.9			1.29	
SM 2540 C-2015	TDS	98.7			5.17	
SM 2540 D-2015	TSS	97.7			7.14	
SM 4500-F- C-2011	Fluoride	99.5	102	102		0.509
SM 5310 B-2011	Organic Carbon	96.1	95.4	97.7		1.61

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2383496, 2383497
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2383496, 2383497
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2383496, 2383497
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2383496, 2383497
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2383498, 2383499
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2383498, 2383499
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2383498, 2383499
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2383498, 2383499
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2383500, 2383501
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2383496, 2383497
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2383496, 2383497
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2383496, 2383497
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2383496, 2383497
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2383498, 2383499

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	01/26/2023			01/26/2023 14:19	Alexis Price	2383496
	01/26/2023			01/26/2023 14:20	Alexis Price	2383497
EPA 180.1 Rev. 2.0	01/26/2023			01/26/2023 13:37	Chandler E Cox	2383496
	01/26/2023			01/26/2023 13:41	Chandler E Cox	2383497
EPA 300.0 Rev. 2.1	01/26/2023			02/08/2023 19:26	Anna M. Plaviak	2383496
	01/26/2023			02/08/2023 21:26	Anna M. Plaviak	2383497
EPA 350.1 Rev. 2.0	01/26/2023			02/09/2023 12:59	Ping Hua	2383498
	01/26/2023			02/09/2023 13:10	Ping Hua	2383499
EPA 351.2 Rev. 2.0	01/26/2023	01/31/2023 12:30	Simonne.V. Calhoun	02/03/2023 16:54	Samantha L Bates	2383498
	01/26/2023	01/31/2023 12:30	Simonne.V. Calhoun	02/03/2023 16:55	Samantha L Bates	2383499
EPA 353.2 Rev. 2.0	01/26/2023			02/01/2023 11:36	Beverly Y. Sanders	2383498
	01/26/2023			02/01/2023 11:37	Beverly Y. Sanders	2383499
EPA 365.1 Rev. 2.0	01/26/2023	01/31/2023 13:47	Adam P Silver	02/01/2023 10:05	James L Waggeberby	2383498
	01/26/2023	01/31/2023 13:47	Adam P Silver	02/01/2023 13:13	James L Waggeberby	2383499
EPA 365.1 Rev. 2.0 dissolved	01/26/2023			01/26/2023 15:02	Elise M. Gillis	2383500
	01/26/2023			01/26/2023 15:03	Elise M. Gillis	2383501
SM 2320 B-2011	01/26/2023			02/04/2023 01:49	Dale L. Simmons	2383496
	01/26/2023			02/04/2023 02:02	Dale L. Simmons	2383497
SM 2540 C-2015	01/26/2023			01/27/2023 16:11	Yijie Li	2383496, 2383497
SM 2540 D-2015	01/26/2023			01/27/2023 16:11	Yijie Li	2383496, 2383497
SM 4500-F- C-2011	01/26/2023			02/07/2023 22:51	Dale L. Simmons	2383496
	01/26/2023			02/07/2023 22:56	Dale L. Simmons	2383497
SM 5310 B-2011	01/26/2023			01/31/2023 21:57	Elise M. Gillis	2383498
	01/26/2023			02/01/2023 04:20	Elise M. Gillis	2383499