Chemical Analysis Report

SE-DIST-2022-08-17-01

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

Event Description: **Yeehaw Junction**
Request ID: **RQ-2022-08-15-37**
Customer: **SE-DIST**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 08-SEP-2022 14:58

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: Fort Drum Marsh Conservation Area Northeast Entrance **Collection Date/Time: 08/16/2022 11:20**

Field ID: G3SE0052 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349936	DEP SOP: NU-094-1	Color (true)	190		PCU	P418272	
	EPA 180.1 Rev. 2.0	Turbidity	8.1		NTU	P418266	
	EPA 300.0 Rev. 2.1	Chloride	48		mg Cl/L	P418867	
		Sulfate	2.8		mg SO4/L	P418870	
	SM 2320 B-2011	Total Alkalinity	49		mg CaCO3/L	P418391	
	SM 2540 C-2011	TDS	212		mg/L	P418535	
	SM 2540 D-2011	TSS	16		mg/L	P418486	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P418401	
2349937	EPA 350.1 Rev. 2.0	Ammonia-N	0.056		mg N/L	P418492	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P418448	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P418528	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P418369	
	SM 5310 B-2011	Organic Carbon	31		mg C/L	P418470	

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: Blue Cypress Creek **Collection Date/Time: 08/16/2022 09:20**

Field ID: G3SE0048 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349934	DEP SOP: NU-094-1	Color (true)	200		PCU	P418272	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P418266	
	EPA 300.0 Rev. 2.1	Chloride	16	A	mg Cl/L	P418867	
		Sulfate	4.7	A	mg SO4/L	P418870	
	SM 2320 B-2011	Total Alkalinity	56		mg CaCO3/L	P418391	
	SM 2540 C-2011	TDS	186		mg/L	P418535	
	SM 2540 D-2011	TSS	7	I	mg/L	P418486	
	SM 4500-F- C-2011	Fluoride	0.099	I	mg F/L	P418401	
2349935	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P418492	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P418447	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.098		mg N/L	P418528	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P418369	
	SM 5310 B-2011	Organic Carbon	22		mg C/L	P418470	

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: FB **Collection Date/Time: 08/16/2022 09:30**

Field ID: FB_08162022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349938	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P418272	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P418266	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P418867	
		Sulfate	0.20	U	mg SO4/L	P418870	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P418391	
	SM 2540 C-2011	TDS	15	U	mg/L	P418535	
	SM 2540 D-2011	TSS	2	U	mg/L	P418486	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P418401	
2349939	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P418492	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P418447	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P418528	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P418369	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P418470	

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: DEP SOP: NU-094-1
Batch ID: P418272

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418266

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418867

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418870

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418492

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418447

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418448

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418528

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418369

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P418391

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P418535

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418486

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P418401

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P418470

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: P418272

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.6		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418266

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418867

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: P418870

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418492

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418447

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418448

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: P418528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418369

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	108		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P418391

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P418401

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P418470

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418867

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349934	Chloride	96.7		P	90 - 110
2350213	Chloride	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418870

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349934	Sulfate	97.4		P	90 - 110
2350213	Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418492

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349935	Ammonia-N	99.4	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349824	NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418369

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350029	Total-P	107	107	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P418401

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349634	Fluoride	100	99.2	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P418470

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349844	Organic Carbon	99.3	99.4	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P418272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350028	Color (true)	10.3	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350028	Turbidity	16.4	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418867

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349934	Chloride	0.727	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418870

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349934	Sulfate	0.715	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418492

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349935	Ammonia-N	3.39	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418447

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349674	Kjeldahl Nitrogen	2.03	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349825	Kjeldahl Nitrogen	0.0836	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349824	NO2NO3-N	0.501	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350029	Total-P	0.384	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P418391

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349634	Total Alkalinity	0.781	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P418535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349378	TDS	0.851	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P418401

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349634	Fluoride	0.940	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P418470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349844	Organic Carbon	0.0327	Spike	P	0 - 20

* 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: A114165
Included Lab Sample IDs: 2349934, 2349936, 2349938

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

Reference Method: DEP SOP: NU-094-1
Run ID: A114167
Included Lab Sample IDs: 2349934, 2349936, 2349938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.6	P/P	90 - 110
Color (true)	99.5	101	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A114212
Included Lab Sample IDs: 2349934, 2349936, 2349938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	98.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A114212
Included Lab Sample IDs: 2349934, 2349936, 2349938

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

Reference Method: SM 5310 B-2011
Run ID: A114244
Included Lab Sample IDs: 2349935, 2349937, 2349939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.0	96.1	P/P	90 - 110
Organic Carbon	97.4	97.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114252
Included Lab Sample IDs: 2349935, 2349937, 2349939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.6	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A114268
Included Lab Sample IDs: 2349935, 2349937, 2349939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114298
Included Lab Sample IDs: 2349935, 2349939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114298
Included Lab Sample IDs: 2349935, 2349939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.6	96.9	P/P	90 - 110
Kjeldahl Nitrogen	93.5	90.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114302
Included Lab Sample IDs: 2349935, 2349937

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114304
Included Lab Sample IDs: 2349939

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114314
Included Lab Sample IDs: 2349937

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.9	97.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114335
Included Lab Sample IDs: 2349934, 2349936, 2349938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.8	98.6	P/P	90 - 110
Sulfate	98.5	99.3	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	SMP	MS
DEP SOP: NU-094-1	Color (true)	99.6				10.3	
EPA 180.1 Rev. 2.0	Turbidity	97.1				16.4	
EPA 300.0 Rev. 2.1	Chloride	98.0	96.7	97.0		0.727	
	Sulfate	98.6	97.4	96.2		0.715	
EPA 350.1 Rev. 2.0	Ammonia-N	100	99.4	104			3.39
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101					2.03
	Kjeldahl Nitrogen	101					0.0836
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	99.5	100			0.501
EPA 365.1 Rev. 2.0	Total-P	108	107	107			0.384
SM 2320 B-2011	Total Alkalinity	98.9				0.781	
SM 2540 C-2011	TDS					0.851	
SM 4500-F- C-2011	Fluoride	101	100	99.2			0.940
SM 5310 B-2011	Organic Carbon	97.0	99.3	99.4			0.0327

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2349934, 2349936, 2349938
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2349934, 2349936, 2349938
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2349934, 2349936, 2349938
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2349934, 2349936, 2349938
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2349935, 2349937, 2349939
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2349935, 2349937, 2349939
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2349935, 2349937, 2349939
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2349935, 2349937, 2349939
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2349934, 2349936, 2349938
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2349934, 2349936, 2349938
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2349934, 2349936, 2349938
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2349934, 2349936, 2349938
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2349935, 2349937, 2349939

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	08/17/2022			08/17/2022 16:26	Anna M. Plaviak	2349938
	08/17/2022			08/17/2022 16:50	Anna M. Plaviak	2349934
	08/17/2022			08/17/2022 16:51	Anna M. Plaviak	2349936
EPA 180.1 Rev. 2.0	08/17/2022			08/17/2022 15:05	Khloe J Berg	2349934
	08/17/2022			08/17/2022 15:06	Khloe J Berg	2349936
	08/17/2022			08/17/2022 15:07	Khloe J Berg	2349938
EPA 300.0 Rev. 2.1	08/17/2022			08/26/2022 16:00	Anna M. Plaviak	2349934
	08/17/2022			08/26/2022 18:07	Anna M. Plaviak	2349936
	08/17/2022			08/26/2022 18:21	Anna M. Plaviak	2349938
EPA 350.1 Rev. 2.0	08/17/2022			08/22/2022 16:17	Judith K. Clark	2349935
	08/17/2022			08/22/2022 16:24	Judith K. Clark	2349937
	08/17/2022			08/22/2022 16:25	Judith K. Clark	2349939
EPA 351.2 Rev. 2.0	08/17/2022	08/23/2022 16:31	Samantha L Bates	08/24/2022 12:38	Samantha L Bates	2349935
	08/17/2022	08/23/2022 16:31	Samantha L Bates	08/24/2022 12:43	Samantha L Bates	2349939
	08/17/2022	08/23/2022 16:31	Samantha L Bates	08/24/2022 17:06	Samantha L Bates	2349937
EPA 353.2 Rev. 2.0	08/17/2022			08/23/2022 10:18	Beverly Y. Sanders	2349935
	08/17/2022			08/23/2022 10:20	Beverly Y. Sanders	2349937
	08/17/2022			08/23/2022 10:21	Beverly Y. Sanders	2349939
EPA 365.1 Rev. 2.0	08/17/2022	08/23/2022 18:30	Simonne.V. Calhoun	08/24/2022 11:33	James L Waggerby	2349935
	08/17/2022	08/23/2022 18:30	Simonne.V. Calhoun	08/24/2022 11:34	James L Waggerby	2349937
	08/17/2022	08/23/2022 18:30	Simonne.V. Calhoun	08/24/2022 16:10	James L Waggerby	2349939
SM 2320 B-2011	08/17/2022			08/19/2022 03:51	Adam P Silver	2349934
	08/17/2022			08/19/2022 04:05	Adam P Silver	2349936
	08/17/2022			08/19/2022 04:14	Adam P Silver	2349938
SM 2540 C-2011	08/17/2022			08/19/2022 13:18	Ping Hua	2349934, 2349936, 2349938
SM 2540 D-2011	08/17/2022			08/19/2022 13:47	Ping Hua	2349934, 2349936, 2349938
SM 4500-F- C-2011	08/17/2022			08/19/2022 03:51	Adam P Silver	2349934
	08/17/2022			08/19/2022 04:05	Adam P Silver	2349936
	08/17/2022			08/19/2022 04:14	Adam P Silver	2349938
SM 5310 B-2011	08/17/2022			08/19/2022 21:38	Judith K. Clark	2349937
	08/17/2022			08/19/2022 21:52	Judith K. Clark	2349939
	08/17/2022			08/20/2022 02:48	Judith K. Clark	2349935