Chemical Analysis Report

SW-DIST-2023-12-19-02

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Run 3**
Request ID: **RQ-2023-12-18-11**
Customer: **SW-DIST**
Project ID: **SMP**

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Date Certified: 12-JAN-2024 11:13

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: Mckethan Lake **Collection Date/Time: 12/18/2023 09:25**

Field ID: G4SW0021 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457823	DEP SOP: NU-094-1	Color (true)	61	A	PCU	P439200	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P439226	
	EPA 300.0 Rev. 2.1	Chloride	5.2		mg Cl/L	P439439	
		Sulfate	2.7		mg SO4/L	P439444	
	SM 2320 B-2011	Total Alkalinity	5.3		mg CaCO3/L	P439372	
	SM 2540 C-2015	TDS	50		mg/L	P439634	
	SM 2540 D-2015	TSS	13	I	mg/L	P439571	
	SM 4500-F- C-2011	Fluoride	0.042	I	mg F/L	P439374	
2457826	EPA 350.1 Rev. 2.0	Ammonia-N	2.1		mg N/L	P439597	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	4.3		mg N/L	P439243	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.38		mg N/L	P439301	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P439312	
	SM 5310 B-2014	Organic Carbon	19		mg C/L	P439527	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.

Sample Location: Lake Lindsey at Center **Collection Date/Time: 12/18/2023 09:45**

Field ID: G4SW0124 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457824	DEP SOP: NU-094-1	Color (true)	27		PCU	P439200	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P439226	
	EPA 300.0 Rev. 2.1	Chloride	6.9		mg Cl/L	P439439	
		Sulfate	0.20	U	mg SO4/L	P439444	
	SM 2320 B-2011	Total Alkalinity	8.3		mg CaCO3/L	P439372	
	SM 2540 C-2015	TDS	46		mg/L	P439634	
	SM 2540 D-2015	TSS	2	I	mg/L	P439571	
	SM 4500-F- C-2011	Fluoride	0.053	I	mg F/L	P439374	
2457827	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P439646	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P439243	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P439301	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P439312	
	SM 5310 B-2014	Organic Carbon	9.1		mg C/L	P439527	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Sparkman Lake at Center **Collection Date/Time: 12/18/2023 10:30**

Field ID: G4SW0114 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457825	DEP SOP: NU-094-1	Color (true)	300		PCU	P439200	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P439226	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P439439	
		Sulfate	1.6		mg SO4/L	P439444	
	SM 2320 B-2011	Total Alkalinity	11		mg CaCO3/L	P439372	
	SM 2540 C-2015	TDS	123		mg/L	P439634	
	SM 2540 D-2015	TSS	2	I	mg/L	P439571	
	SM 4500-F- C-2011	Fluoride	0.077	I	mg F/L	P439374	
2457828	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P439597	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P439243	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.053		mg N/L	P439301	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P439312	
	SM 5310 B-2014	Organic Carbon	31		mg C/L	P439527	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P439200

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P439226

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439439

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439444

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439597

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439646

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439243

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439301

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439312

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: P439372

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

Reference Method: SM 2540 C-2015
Batch ID: P439634

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P439571

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P439374

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P439527

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: P439200

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: P439226

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439439

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439444

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439597

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439646

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: P439243

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	92.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439301

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439312

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P439372

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.8		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P439634

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	92.4		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P439571

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.0		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P439374

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P439527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439439

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457901	Chloride	102		P	90 - 110
2458032	Chloride	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457901	Sulfate	101		P	90 - 110
2458032	Sulfate	98.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439597

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457753	Ammonia-N	97.6	96.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458094	Ammonia-N	97.4	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439243

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457871	Kjeldahl Nitrogen	96.8	115	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457826	NO2NO3-N	98.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457859	Total-P	104	104	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P439374

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457904	Fluoride	103	103	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P439527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457827	Organic Carbon	102	101	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P439200

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457823	Color (true)	12.3	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P439226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457748	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439439

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457901	Chloride	1.38	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457901	Sulfate	1.34	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439597

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457753	Ammonia-N	0.694	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439646

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458094	Ammonia-N	2.21	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439243

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457871	Kjeldahl Nitrogen	9.73	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457826	NO2NO3-N	0.525	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457859	Total-P	0.282	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P439372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457904	Total Alkalinity	0.162	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P439634

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457811	TDS	2.87	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P439374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457904	Fluoride	0.513	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P439527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457827	Organic Carbon	0.644	Spike	P	0 - 15

* 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: A123320
Included Lab Sample IDs: 2457823, 2457824, 2457825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	97.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A123330
Included Lab Sample IDs: 2457823, 2457824, 2457825

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123338
Included Lab Sample IDs: 2457823, 2457824, 2457825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	101	P/P	90 - 110
Sulfate	103	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123355
Included Lab Sample IDs: 2457826, 2457827, 2457828

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

Reference Method: SM 2320 B-2011
Run ID: A123386
Included Lab Sample IDs: 2457823, 2457824, 2457825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A123386
Included Lab Sample IDs: 2457823, 2457824, 2457825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123397
Included Lab Sample IDs: 2457826, 2457828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.4	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123402
Included Lab Sample IDs: 2457827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	98.8	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123416
Included Lab Sample IDs: 2457826, 2457827, 2457828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.9	93.7	P/P	90 - 110
Kjeldahl Nitrogen	98.8	98.8	P/P	90 - 110

Reference Method: SM 5310 B-2014
Run ID: A123465
Included Lab Sample IDs: 2457826, 2457827, 2457828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	100	122	P/P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123501
Included Lab Sample IDs: 2457826, 2457828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	97.4	P/P	90 - 110
Ammonia-N	98.8	98.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123521
Included Lab Sample IDs: 2457827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	101	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)	101				12.3	
EPA 180.1 Rev. 2.0	Turbidity	103				0.0	
EPA 300.0 Rev. 2.1	Chloride	104	102	98.7		1.38	
	Sulfate	103	101	98.8		1.34	
EPA 350.1 Rev. 2.0	Ammonia-N	101	97.6	96.6			0.694
	Ammonia-N	97.0	97.4	100			2.21
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	92.8	96.8	115			9.73
EPA 353.2 Rev. 2.0	NO2NO3-N	101	98.3				0.525
EPA 365.1 Rev. 2.0	Total-P	103	104	104			0.282
SM 2320 B-2011	Total Alkalinity	99.8				0.162	
SM 2540 C-2015	TDS	92.4				2.87	
SM 2540 D-2015	TSS	92.0					
SM 4500-F- C-2011	Fluoride	103	103	103			0.513
SM 5310 B-2014	Organic Carbon	101	102	101			0.644

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2457823, 2457824, 2457825
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2457823, 2457824, 2457825
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2457823, 2457824, 2457825
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2457823, 2457824, 2457825
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2457826, 2457827, 2457828
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2457826, 2457827, 2457828
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2457826, 2457827, 2457828
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2457826, 2457827, 2457828
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2457823, 2457824, 2457825
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2457823, 2457824, 2457825
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2457823, 2457824, 2457825
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2457823, 2457824, 2457825
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2457826, 2457827, 2457828

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	12/19/2023			12/19/2023 14:26	Chandler E Cox	2457823, 2457824
	12/19/2023			12/19/2023 14:28	Chandler E Cox	2457825
EPA 180.1 Rev. 2.0	12/19/2023			12/19/2023 13:21	Anna M. Plaviak	2457823, 2457824
	12/19/2023			12/19/2023 13:22	Anna M. Plaviak	2457825
EPA 300.0 Rev. 2.1	12/19/2023			12/22/2023 21:25	James L Waggerby	2457823
	12/19/2023			12/22/2023 21:40	James L Waggerby	2457824
	12/19/2023			12/22/2023 21:55	James L Waggerby	2457825
EPA 350.1 Rev. 2.0	12/19/2023			01/04/2024 14:30	Ping Hua	2457828
	12/19/2023			01/04/2024 15:25	Ping Hua	2457826
	12/19/2023			01/05/2024 13:47	Ping Hua	2457827
EPA 351.2 Rev. 2.0	12/19/2023	12/20/2023 13:42	Simonne.V. Calhoun	12/22/2023 16:43	Samantha L Bates	2457827
	12/19/2023	12/20/2023 13:42	Simonne.V. Calhoun	12/22/2023 16:45	Samantha L Bates	2457828
	12/19/2023	12/20/2023 13:42	Simonne.V. Calhoun	12/22/2023 17:33	Samantha L Bates	2457826
EPA 353.2 Rev. 2.0	12/19/2023			12/20/2023 13:13	Fadila Guebre	2457826
	12/19/2023			12/20/2023 13:19	Fadila Guebre	2457827
	12/19/2023			12/20/2023 13:20	Fadila Guebre	2457828
EPA 365.1 Rev. 2.0	12/19/2023	12/21/2023 15:43	Adam P Silver	12/22/2023 10:26	James L Waggerby	2457826
	12/19/2023	12/21/2023 15:43	Adam P Silver	12/22/2023 10:28	James L Waggerby	2457828
	12/19/2023	12/21/2023 15:43	Adam P Silver	12/22/2023 13:13	Elise M. Gillis	2457827
SM 2320 B-2011	12/19/2023			12/21/2023 02:19	Dale L. Simmons	2457823
	12/19/2023			12/21/2023 02:31	Dale L. Simmons	2457824
	12/19/2023			12/21/2023 02:43	Dale L. Simmons	2457825
SM 2540 C-2015	12/19/2023			12/21/2023 15:04	Yijie Li	2457823, 2457824, 2457825
SM 2540 D-2015	12/19/2023			12/21/2023 15:04	Yijie Li	2457823, 2457824, 2457825
SM 4500-F- C-2011	12/19/2023			12/21/2023 02:19	Dale L. Simmons	2457823
	12/19/2023			12/21/2023 02:31	Dale L. Simmons	2457824
	12/19/2023			12/21/2023 02:43	Dale L. Simmons	2457825
SM 5310 B-2014	12/19/2023			12/23/2023 06:10	Kenneth H Lee	2457827
	12/19/2023			12/23/2023 07:12	Kenneth H Lee	2457826
	12/19/2023			12/23/2023 07:27	Kenneth H Lee	2457828