

Chemical Analysis Report

NW-DIST-2023-02-01-01

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

Event Description: **Eastern Lakes Run**
Request ID: **RQ-2023-01-30-15**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 17-FEB-2023 10:26

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: Kings Lake

Collection Date/Time: 01/30/2023 11:45

Field ID: G4NW0537

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384110	DEP SOP: NU-094-1	Color (true)	7.3		PCU	P425252	
	EPA 180.1 Rev. 2.0	Turbidity	0.50	I	NTU	P425276	
	EPA 300.0 Rev. 2.1	Chloride	3.5		mg Cl/L	P425683	
		Sulfate	0.96		mg SO4/L	P425687	
	SM 2320 B-2011	Total Alkalinity	1.0	I	mg CaCO3/L	P425694	RPD
	SM 2540 C-2015	TDS	29		mg/L	P425820	
	SM 2540 D-2015	TSS	2	U	mg/L	P425825	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P425509	
2384113	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P425724	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.37		mg N/L	P425284	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P425307	
	EPA 365.1 Rev. 2.0	Total-P	0.007		mg P/L	P425429	MS
	SM 5310 B-2011	Organic Carbon	3.6		mg C/L	P425377	

Sample Location: Roberts Lake

Collection Date/Time: 01/30/2023 14:53

Field ID: G3NW0447

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384111	DEP SOP: NU-094-1	Color (true)	13		PCU	P425252	
	EPA 180.1 Rev. 2.0	Turbidity	0.50	IA	NTU	P425276	
	EPA 300.0 Rev. 2.1	Chloride	3.3		mg Cl/L	P425683	
		Sulfate	2.0		mg SO4/L	P425687	
	SM 2320 B-2011	Total Alkalinity	1.4	I	mg CaCO3/L	P425694	RPD
	SM 2540 C-2015	TDS	17	I	mg/L	P425820	
	SM 2540 D-2015	TSS	2	U	mg/L	P425825	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P425509	
2384114	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P425724	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.12	I	mg N/L	P425284	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P425307	
	EPA 365.1 Rev. 2.0	Total-P	0.003	I	mg P/L	P425429	MS
	SM 5310 B-2011	Organic Carbon	1.5		mg C/L	P425377	

Sample Location: Holly Lake

Collection Date/Time: 01/30/2023 12:35

Field ID: G4NW0517

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384112	DEP SOP: NU-094-1	Color (true)	15	A	PCU	P425252	
	EPA 180.1 Rev. 2.0	Turbidity	0.50	I	NTU	P425276	
	EPA 300.0 Rev. 2.1	Chloride	3.4		mg Cl/L	P425683	
		Sulfate	0.64		mg SO4/L	P425687	
	SM 2320 B-2011	Total Alkalinity	1.3	I	mg CaCO3/L	P425694	RPD
	SM 2540 C-2015	TDS	15	U	mg/L	P425820	
	SM 2540 D-2015	TSS	2	U	mg/L	P425825	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P425509	
2384115	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P425724	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39		mg N/L	P425284	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.056		mg N/L	P425307	
	EPA 365.1 Rev. 2.0	Total-P	0.009	J	mg P/L	P425429	MS
	SM 5310 B-2011	Organic Carbon	4.2		mg C/L	P425377	

Ref. Method and Comment:

EPA 365.1 Rev. 2.0: Total-P: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P425252

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425276

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425683

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425687

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425724

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425284

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425307

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425429

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

Reference Method: SM 2320 B-2011
Batch ID: P425694

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P425820

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P425825

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P425509

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P425377

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: P425252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425276

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425683

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425724

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425284

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425307

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: P425429

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

Reference Method: SM 2320 B-2011
Batch ID: P425694

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.5		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P425820

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.4		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P425825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	90.2		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P425509

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425377

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384308	Chloride	101		P	90 - 110
2384328	Chloride	94.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384308	Sulfate	101		P	90 - 110
2384328	Sulfate	90.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384071	Ammonia-N	103	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384113	Kjeldahl Nitrogen	102	110	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425307

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384074	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384115	Total-P	110	111	F/F	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P425509

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383443	Fluoride	101	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384113	Organic Carbon	94.7	98.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P425252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384112	Color (true)	1.87	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384111	Turbidity	2.79	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384308	Chloride	3.05	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384308	Sulfate	2.87	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384071	Ammonia-N	3.58	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384113	Kjeldahl Nitrogen	6.26	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384074	NO2NO3-N	1.27	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384115	Total-P	0.565	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P425694

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384236	Total Alkalinity	16.9	Sample	F	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P425820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384308	TDS	0.692	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P425825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384308	TSS	4.35	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P425509

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383443	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P425377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384113	Organic Carbon	3.06	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: A117203

Included Lab Sample IDs: 2384110, 2384111, 2384112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117210

Included Lab Sample IDs: 2384110, 2384111, 2384112

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117222

Included Lab Sample IDs: 2384113, 2384114, 2384115

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117258

Included Lab Sample IDs: 2384113, 2384114, 2384115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.4	99.3	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A117264

Included Lab Sample IDs: 2384113, 2384114, 2384115

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

Reference Method: SM 4500-F- C-2011

Run ID: A117311

Included Lab Sample IDs: 2384110, 2384111, 2384112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	99.1	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117317

Included Lab Sample IDs: 2384110, 2384111, 2384112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.2	101	P/P	90 - 110
Sulfate	95.6	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117331

Included Lab Sample IDs: 2384113, 2384114, 2384115

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117331

Included Lab Sample IDs: 2384113, 2384114, 2384115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	98.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A117395

Included Lab Sample IDs: 2384110, 2384111, 2384112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	95.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117404

Included Lab Sample IDs: 2384113, 2384114, 2384115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.2	96.9	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)	97.7			1.87	
EPA 180.1 Rev. 2.0	Turbidity	101			2.79	
EPA 300.0 Rev. 2.1	Chloride	102	101	94.4	3.05	
	Sulfate	99.6	101	90.7	2.87	
EPA 350.1 Rev. 2.0	Ammonia-N	95.4	103	98.8		3.58
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.6	102	110		6.26
EPA 353.2 Rev. 2.0	NO2NO3-N	106	103	102		1.27
EPA 365.1 Rev. 2.0	Total-P	106	110	111		0.565
SM 2320 B-2011	Total Alkalinity	98.5			16.9	
SM 2540 C-2015	TDS	97.4			0.692	
SM 2540 D-2015	TSS	90.2			4.35	
SM 4500-F- C-2011	Fluoride	98.0	101	101		0.0
SM 5310 B-2011	Organic Carbon	94.2	94.7	98.2		3.06

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2384110, 2384111, 2384112
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2384110, 2384111, 2384112
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2384110, 2384111, 2384112
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2384110, 2384111, 2384112
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2384113, 2384114, 2384115
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2384113, 2384114, 2384115
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2384113, 2384114, 2384115
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2384113, 2384114, 2384115
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2384110, 2384111, 2384112
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2384110, 2384111, 2384112
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2384110, 2384111, 2384112
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2384110, 2384111, 2384112
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2384113, 2384114, 2384115

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	02/01/2023			02/01/2023 10:15	Samantha L Bates	2384110
	02/01/2023			02/01/2023 10:16	Samantha L Bates	2384111
	02/01/2023			02/01/2023 10:17	Samantha L Bates	2384112
EPA 180.1 Rev. 2.0	02/01/2023			02/01/2023 10:19	Anna M. Plaviak	2384110
	02/01/2023			02/01/2023 10:22	Anna M. Plaviak	2384111
	02/01/2023			02/01/2023 10:24	Anna M. Plaviak	2384112
EPA 300.0 Rev. 2.1	02/01/2023			02/11/2023 00:20	Anna M. Plaviak	2384110
	02/01/2023			02/11/2023 00:35	Anna M. Plaviak	2384111
	02/01/2023			02/11/2023 00:50	Anna M. Plaviak	2384112
EPA 350.1 Rev. 2.0	02/01/2023			02/13/2023 12:42	Khloe J Berg	2384113
	02/01/2023			02/13/2023 12:44	Khloe J Berg	2384114
	02/01/2023			02/13/2023 12:45	Khloe J Berg	2384115
EPA 351.2 Rev. 2.0	02/01/2023	02/02/2023 09:32	Samantha L Bates	02/03/2023 14:12	Samantha L Bates	2384113
	02/01/2023	02/02/2023 09:32	Samantha L Bates	02/03/2023 14:17	Samantha L Bates	2384114
	02/01/2023	02/02/2023 09:32	Samantha L Bates	02/03/2023 14:18	Samantha L Bates	2384115
EPA 353.2 Rev. 2.0	02/01/2023			02/02/2023 11:04	Beverly Y. Sanders	2384113
	02/01/2023			02/02/2023 11:06	Beverly Y. Sanders	2384114
	02/01/2023			02/02/2023 11:07	Beverly Y. Sanders	2384115
EPA 365.1 Rev. 2.0	02/01/2023	02/06/2023 03:24	Adam P Silver	02/08/2023 13:19	James L Waggeberby	2384115
	02/01/2023	02/06/2023 03:24	Adam P Silver	02/08/2023 13:30	James L Waggeberby	2384113
	02/01/2023	02/06/2023 03:24	Adam P Silver	02/08/2023 13:31	James L Waggeberby	2384114
SM 2320 B-2011	02/01/2023			02/10/2023 06:35	Dale L. Simmons	2384110
	02/01/2023			02/10/2023 06:42	Dale L. Simmons	2384111
	02/01/2023			02/10/2023 06:49	Dale L. Simmons	2384112
SM 2540 C-2015	02/01/2023			02/03/2023 15:44	Yijie Li	2384110, 2384111, 2384112
SM 2540 D-2015	02/01/2023			02/03/2023 15:44	Yijie Li	2384110, 2384111, 2384112
SM 4500-F- C-2011	02/01/2023			02/08/2023 00:50	Dale L. Simmons	2384110
	02/01/2023			02/08/2023 00:56	Dale L. Simmons	2384111
	02/01/2023			02/08/2023 01:01	Dale L. Simmons	2384112
SM 5310 B-2011	02/01/2023			02/03/2023 18:16	Elise M. Gillis	2384113
	02/01/2023			02/03/2023 19:19	Elise M. Gillis	2384114
	02/01/2023			02/03/2023 19:50	Elise M. Gillis	2384115