

Chemical Analysis Report

NW-DIST-2023-06-28-01

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

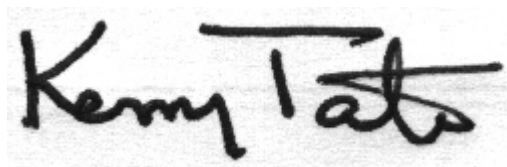
Event Description: **Dune Lakes Run**
Request ID: **RQ-2023-06-26-14**
Customer: **NW-DIST**
Project ID: **SMP**

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.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 18-JUL-2023 08:47

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: Western Lake

Collection Date/Time: 06/27/2023 11:10

Field ID: G3NW0007

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420134	DEP SOP: NU-094-1	Color (true)	42		PCU	P431887	
	EPA 180.1 Rev. 2.0	Turbidity	0.75	I	NTU	P431890	
	EPA 300.0 Rev. 2.1	Chloride	5.3E+03		mg Cl/L	P432085	
		Sulfate	750		mg SO4/L	P432088	
	SM 2320 B-2011	Total Alkalinity	47	A	mg CaCO3/L	P432221	
	SM 2540 C-2015	TDS	9.28E+03		mg/L	P432261	
	SM 2540 D-2015	TSS	3	U	mg/L	P432165	
	SM 4500-F- C-2011	Fluoride	0.36		mg F/L	P432225	
2420136	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P431993	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27	I	mg N/L	P431901	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P432111	
	EPA 365.1 Rev. 2.0	Total-P	0.005	I	mg P/L	P431902	
	SM 5310 B-2011	Organic Carbon	6.4		mg C/L	P432072	

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: Alligator Lake

Collection Date/Time: 06/27/2023 12:00

Field ID: G3NW0219

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420135	DEP SOP: NU-094-1	Color (true)	120		PCU	P431887	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P431890	
	EPA 300.0 Rev. 2.1	Chloride	3.8E+03		mg Cl/L	P432085	
		Sulfate	560		mg SO4/L	P432088	
	SM 2320 B-2011	Total Alkalinity	40		mg CaCO3/L	P432221	
	SM 2540 C-2015	TDS	7.46E+03		mg/L	P432261	
	SM 2540 D-2015	TSS	3	UA	mg/L	P432165	
	SM 4500-F- C-2011	Fluoride	0.28		mg F/L	P432225	
2420137	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P431993	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39	I	mg N/L	P431911	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432111	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P431902	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P432072	

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: P431887

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431890

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432085

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432088

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431993

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431901

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431911

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432111

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431902

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: P432221

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

Reference Method: SM 2540 C-2015
Batch ID: P432261

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P432165

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P432225

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P432072

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: P431887

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431890

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432085

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431993

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431902

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P432221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.7		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P432261

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

Reference Method: SM 2540 D-2015
Batch ID: P432165

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	98.5		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P432225

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432072

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.9		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432085

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420055	Chloride	98.6		P	90 - 110
2420193	Chloride	97.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420055	Sulfate	95.7		P	90 - 110
2420193	Sulfate	93.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431993

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420081	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419987	Kjeldahl Nitrogen	96.6	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420137	Kjeldahl Nitrogen	103	97.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419960	NO2NO3-N	105	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431902

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419984	Total-P	97.3	97.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P432225

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420134	Fluoride	101	102	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432072

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419513	Organic Carbon	92.9	93.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420049	Color (true)	0.00300	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420158	Turbidity	0.729	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420055	Chloride	0.958	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420055	Sulfate	0.997	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420081	Ammonia-N	1.05	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419987	Kjeldahl Nitrogen	5.59	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420137	Kjeldahl Nitrogen	4.93	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419960	NO2NO3-N	1.42	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431902

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419984	Total-P	0.103	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P432221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420134	Total Alkalinity	0.942	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P432261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420164	TDS	2.49	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P432225

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420134	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419513	Organic Carbon	0.742	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: A120075

Included Lab Sample IDs: 2420134, 2420135

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.4	99.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120077

Included Lab Sample IDs: 2420134, 2420135

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120125

Included Lab Sample IDs: 2420136, 2420137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120133

Included Lab Sample IDs: 2420136

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.4	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120134

Included Lab Sample IDs: 2420137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.4	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120158

Included Lab Sample IDs: 2420136, 2420137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	97.0	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A120177

Included Lab Sample IDs: 2420136, 2420137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	96.3	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120184

Included Lab Sample IDs: 2420134, 2420135

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	106	106	P/P	90 - 110
Sulfate	103	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120192

Included Lab Sample IDs: 2420136, 2420137

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

Reference Method: SM 2320 B-2011

Run ID: A120247

Included Lab Sample IDs: 2420134, 2420135

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.3	96.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120247

Included Lab Sample IDs: 2420134, 2420135

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	102	P/P	90 - 110
Fluoride	102	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	MS
DEP SOP: NU-094-1	Color (true)	98.5			0.0030	
EPA 180.1 Rev. 2.0	Turbidity	100			0.729	
EPA 300.0 Rev. 2.1	Chloride	97.0	98.6	97.6	0.958	
	Sulfate	94.2	93.7	95.7	0.997	
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	102	103		1.05
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.4	96.6	103		5.59
	Kjeldahl Nitrogen	97.2	103	97.9		4.93
EPA 353.2 Rev. 2.0	NO2NO3-N	104	105	106		1.42
EPA 365.1 Rev. 2.0	Total-P	98.1	97.3	97.4		0.103
SM 2320 B-2011	Total Alkalinity	96.7			0.942	
SM 2540 C-2015	TDS	97.1			2.49	
SM 2540 D-2015	TSS	98.5				
SM 4500-F- C-2011	Fluoride	101	101	102		0.480
SM 5310 B-2011	Organic Carbon	95.9	92.9	93.7		0.742

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2420134, 2420135
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2420134, 2420135
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2420134, 2420135
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2420134, 2420135
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2420136, 2420137
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2420136, 2420137
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2420136, 2420137
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2420136, 2420137
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2420134, 2420135
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2420134, 2420135
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2420134, 2420135
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2420134, 2420135
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2420136, 2420137

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	06/28/2023			06/28/2023 14:38	Alexis Price	2420134
	06/28/2023			06/28/2023 14:39	Alexis Price	2420135
EPA 180.1 Rev. 2.0	06/28/2023			06/28/2023 13:12	Alexis Price	2420134
	06/28/2023			06/28/2023 13:13	Alexis Price	2420135
EPA 300.0 Rev. 2.1	06/28/2023			07/05/2023 19:40	James L Waggeberby	2420134
	06/28/2023			07/05/2023 19:55	James L Waggeberby	2420135
EPA 350.1 Rev. 2.0	06/28/2023			06/30/2023 12:32	Khloe J Berg	2420136
	06/28/2023			06/30/2023 12:34	Khloe J Berg	2420137
EPA 351.2 Rev. 2.0	06/28/2023	06/29/2023 12:06	Simonne.V. Calhoun	06/30/2023 12:35	Samantha L Bates	2420136
	06/28/2023	06/29/2023 12:28	Simonne.V. Calhoun	06/30/2023 14:19	Samantha L Bates	2420137
EPA 353.2 Rev. 2.0	06/28/2023			07/06/2023 14:19	Judith K. Clark	2420136
	06/28/2023			07/06/2023 14:20	Judith K. Clark	2420137
EPA 365.1 Rev. 2.0	06/28/2023	06/29/2023 16:14	Adam P Silver	06/30/2023 15:24	James L Waggeberby	2420136
	06/28/2023	06/29/2023 16:14	Adam P Silver	06/30/2023 15:25	James L Waggeberby	2420137
SM 2320 B-2011	06/28/2023			07/08/2023 09:42	Dale L. Simmons	2420134
	06/28/2023			07/08/2023 09:55	Dale L. Simmons	2420135
SM 2540 C-2015	06/28/2023			06/29/2023 12:56	Dana G. Hughes	2420134, 2420135
SM 2540 D-2015	06/28/2023			06/29/2023 12:56	Dana G. Hughes	2420134, 2420135
SM 4500-F- C-2011	06/28/2023			07/08/2023 07:24	Dale L. Simmons	2420134
	06/28/2023			07/08/2023 08:16	Dale L. Simmons	2420135
SM 5310 B-2011	06/28/2023			07/06/2023 03:09	Elise M. Gillis	2420136
	06/28/2023			07/06/2023 03:25	Elise M. Gillis	2420137