

Chemical Analysis Report

NW-DIST-2023-09-19-01

Florida DEP Laboratory
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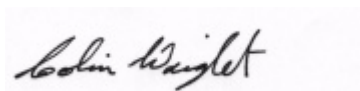
Event Description: **Escambia River Run**
Request ID: **RQ-2023-09-18-22**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 06-OCT-2023 11:31

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: ESCAMBIA RIVER UPSTREAM OF MITCHELL CREEK

Collection Date/Time: 09/18/2023 11:00

Field ID: G4NW0404

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2438073	DEP SOP: NU-094-1	Color (true)	36		PCU	P435216	
	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P435198	
	EPA 300.0 Rev. 2.1	Chloride	9.6		mg Cl/L	P435622	
		Sulfate	20		mg SO4/L	P435625	
	SM 2320 B-2011	Total Alkalinity	37		mg CaCO3/L	P435435	
	SM 2540 C-2015	TDS	102		mg/L	P435727	
	SM 2540 D-2015	TSS	13		mg/L	P435683	
	SM 4500-F- C-2011	Fluoride	0.034	I	mg F/L	P435769	
2438075	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P435418	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.37		mg N/L	P435712	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.40		mg N/L	P435970	
	EPA 365.1 Rev. 2.0	Total-P	0.056		mg P/L	P435312	
	SM 5310 B-2011	Organic Carbon	4.4		mg C/L	P435642	

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: ESCAMBIA RIVER DOWNSTREAM OF COTTON LAKE **Collection Date/Time: 09/18/2023 11:50**

Field ID: G4NW0403

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2438074	DEP SOP: NU-094-1	Color (true)	35	A	PCU	P435217	
	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P435198	
	EPA 300.0 Rev. 2.1	Chloride	9.1		mg Cl/L	P435622	
		Sulfate	19		mg SO4/L	P435625	
	SM 2320 B-2011	Total Alkalinity	36		mg CaCO3/L	P435583	
	SM 2540 C-2015	TDS	95		mg/L	P435727	
	SM 2540 D-2015	TSS	14		mg/L	P435683	
	SM 4500-F- C-2011	Fluoride	0.036	I	mg F/L	P435586	
2438076	EPA 350.1 Rev. 2.0	Ammonia-N	0.089		mg N/L	P435418	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.34		mg N/L	P435712	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.46		mg N/L	P435970	
	EPA 365.1 Rev. 2.0	Total-P	0.049		mg P/L	P435312	
	SM 5310 B-2011	Organic Carbon	3.9		mg C/L	P435642	

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: P435216

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P435217

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435198

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435622

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435625

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435418

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435712

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435970

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435312

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: P435435

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

Reference Method: SM 2320 B-2011
Batch ID: P435583

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

Reference Method: SM 2540 C-2015
Batch ID: P435727

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P435683

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P435586

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P435769

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P435642

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: P435216

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P435217

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: P435198

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435622

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435625

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435418

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435712

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435970

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: P435312

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P435435

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.6		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P435583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.8		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P435727

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

Reference Method: SM 2540 D-2015
Batch ID: P435683

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.3		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P435586

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

Reference Method: SM 4500-F- C-2011
Batch ID: P435769

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435642

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437992	Chloride	103		P	90 - 110
2438163	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437992	Sulfate	104		P	90 - 110
2438163	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437991	Ammonia-N	97.6	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437958	Kjeldahl Nitrogen	106	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437995	NO2NO3-N	102	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437995	Total-P	107	108	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P435586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438695	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P435769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440474	Fluoride	97.5	95.9	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435642

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437905	Organic Carbon	96.8	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437986	Color (true)	4.35	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P435217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438074	Color (true)	0.826	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437988	Turbidity	2.84	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437992	Chloride	0.360	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437992	Sulfate	0.920	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437991	Ammonia-N	0.944	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437958	Kjeldahl Nitrogen	0.621	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437995	NO2NO3-N	1.04	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437995	Total-P	0.201	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P435435

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437957	Total Alkalinity	0.921	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P435583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438695	Total Alkalinity	0.360	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P435727

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437759	TDS	4.35	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438695	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P435769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440474	Fluoride	1.01	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435642

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437905	Organic Carbon	3.30	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: A121627

Included Lab Sample IDs: 2438073, 2438074

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

Reference Method: DEP SOP: NU-094-1

Run ID: A121632

Included Lab Sample IDs: 2438073, 2438074

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110
Color (true)	99.9	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121729

Included Lab Sample IDs: 2438075, 2438076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121734

Included Lab Sample IDs: 2438075, 2438076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.1	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121739

Included Lab Sample IDs: 2438073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.0	96.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121771

Included Lab Sample IDs: 2438073, 2438074

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.5	100	P/P	90 - 110
Sulfate	99.1	102	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121790

Included Lab Sample IDs: 2438074

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.5	95.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121790

Included Lab Sample IDs: 2438074

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

Reference Method: SM 4500-F- C-2011

Run ID: A121790

Included Lab Sample IDs: 2438074

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

Reference Method: SM 5310 B-2011

Run ID: A121814

Included Lab Sample IDs: 2438075, 2438076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.3	96.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121863

Included Lab Sample IDs: 2438073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121882

Included Lab Sample IDs: 2438075, 2438076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.8	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A121950

Included Lab Sample IDs: 2438075, 2438076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	98.0	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)	99.8			4.35	
	Color (true)	101			0.826	
EPA 180.1 Rev. 2.0	Turbidity	105			2.84	
EPA 300.0 Rev. 2.1	Chloride	101	103	100	0.360	
	Sulfate	102	104	100	0.920	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	97.6	99.4		0.944
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	106	107		0.621
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	102	100		1.04
EPA 365.1 Rev. 2.0	Total-P	105	107	108		0.201
SM 2320 B-2011	Total Alkalinity	95.6			0.921	
	Total Alkalinity	96.8			0.360	
SM 2540 C-2015	TDS	104			4.35	
SM 2540 D-2015	TSS	95.3				
SM 4500-F- C-2011	Fluoride	101	101	101		0.0
	Fluoride	98.8	97.5	95.9		1.01
SM 5310 B-2011	Organic Carbon	96.2	96.8	100		3.30

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2438073, 2438074
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2438073, 2438074
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2438073, 2438074
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2438073, 2438074
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2438075, 2438076
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2438075, 2438076
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2438075, 2438076
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2438075, 2438076
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2438073, 2438074
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2438073, 2438074
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2438073, 2438074
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2438073, 2438074
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2438075, 2438076

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	09/19/2023			09/19/2023 17:26	Alexis Price	2438073
	09/19/2023			09/19/2023 17:31	Alexis Price	2438074
EPA 180.1 Rev. 2.0	09/19/2023			09/19/2023 13:17	Chandler E Cox	2438073
	09/19/2023			09/19/2023 13:19	Chandler E Cox	2438074
EPA 300.0 Rev. 2.1	09/19/2023			09/26/2023 19:13	James L Waggeberby	2438073
	09/19/2023			09/26/2023 19:28	James L Waggeberby	2438074
EPA 350.1 Rev. 2.0	09/19/2023			09/22/2023 14:12	Khloe J Berg	2438075
	09/19/2023			09/22/2023 14:14	Khloe J Berg	2438076
EPA 351.2 Rev. 2.0	09/19/2023	09/29/2023 10:15	Samantha L Bates	10/02/2023 15:20	Samantha L Bates	2438075
	09/19/2023	09/29/2023 10:15	Samantha L Bates	10/02/2023 15:22	Samantha L Bates	2438076
EPA 353.2 Rev. 2.0	09/19/2023			10/04/2023 14:36	Fadila Guebre	2438075
	09/19/2023			10/04/2023 14:37	Fadila Guebre	2438076
EPA 365.1 Rev. 2.0	09/19/2023	09/21/2023 14:48	Adam P Silver	09/22/2023 14:42	James L Waggeberby	2438075
	09/19/2023	09/21/2023 14:48	Adam P Silver	09/22/2023 14:43	James L Waggeberby	2438076
SM 2320 B-2011	09/19/2023			09/22/2023 17:52	Dale L. Simmons	2438073
	09/19/2023			09/26/2023 23:37	Adam P Silver	2438074
SM 2540 C-2015	09/19/2023			09/21/2023 16:01	Yijie Li	2438073, 2438074
SM 2540 D-2015	09/19/2023			09/21/2023 16:01	Yijie Li	2438073, 2438074
SM 4500-F- C-2011	09/19/2023			09/26/2023 23:37	Adam P Silver	2438074
	09/19/2023			09/29/2023 20:27	Adam P Silver	2438073
SM 5310 B-2011	09/19/2023			09/28/2023 00:08	Khloe J Berg	2438075
	09/19/2023			09/28/2023 00:20	Khloe J Berg	2438076