

Chemical Analysis Report

SO-DIST-2023-10-13-01

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

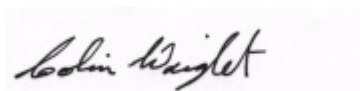
Event Description: **2023 SMP: Sheldon J. Plankton**
Request ID: **RQ-2023-10-09-66**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: Nicole Reistad

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: Colin Wright, Program Administrator

Date Certified: 30-OCT-2023 12:19

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light blue 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: Little Bonnet Lake at Middle

Collection Date/Time: 10/12/2023 10:15

Field ID: G4SD0169

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444966	DEP SOP: NU-094-1	Color (true)	18	A	PCU	P436497	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P436501	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P436820	
		Sulfate	31		mg SO4/L	P436823	
	SM 2320 B-2011	Total Alkalinity	30		mg CaCO3/L	P436674	
	SM 2540 C-2015	TDS	119		mg/L	P436961	
	SM 2540 D-2015	TSS	7	I	mg/L	P436854	
	SM 4500-F- C-2011	Fluoride	0.075	I	mg F/L	P436675	
2444968	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P436763	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P436520	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.59		mg N/L	P436631	
	EPA 365.1 Rev. 2.0	Total-P	0.021		mg P/L	P436515	
	SM 5310 B-2011	Organic Carbon	9.9		mg C/L	P436849	
2444970	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P436490	

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: Bonnet Lake at Middle

Collection Date/Time: 10/12/2023 10:55

Field ID: G4SD0170

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444967	DEP SOP: NU-094-1	Color (true)	44		PCU	P436497	
	EPA 180.1 Rev. 2.0	Turbidity	9.7		NTU	P436501	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P436820	
		Sulfate	24		mg SO4/L	P436823	
	SM 2320 B-2011	Total Alkalinity	22		mg CaCO3/L	P436674	
	SM 2540 C-2015	TDS	108	A	mg/L	P436962	
	SM 2540 D-2015	TSS	10	I	mg/L	P436855	
	SM 4500-F- C-2011	Fluoride	0.071	I	mg F/L	P436675	
2444969	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P436763	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P436520	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.20		mg N/L	P436631	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P436515	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P436849	
2444971	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P436490	

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: P436497

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436501

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436820

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436823

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436763

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436520

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436631

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436515

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436490

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P436674

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

Reference Method: SM 2540 C-2015
Batch ID: P436961

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P436962

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436854

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436855

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436675

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P436849

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: P436497

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436501

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436820

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436823

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436763

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436520

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436631

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436515

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436490

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P436674

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.6		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P436961

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	91.6		P	85 - 115

Reference Method: SM 2540 C-2015
Batch ID: P436962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	92.8		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P436854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	107		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P436855

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	107		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P436675

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.4		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436849

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436820

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444713	Chloride	103		P	90 - 110
2444954	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436823

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444713	Sulfate	102		P	90 - 110
2444954	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436763

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444968	Ammonia-N	99.4	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444969	Kjeldahl Nitrogen	93.4	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444879	NO2NO3-N	94.8	93.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436515

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444890	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436490

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444970	O-Phosphate-P	96.1	95.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P436675

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444889	Fluoride	101	100	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436849

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445098	Organic Carbon	94.3	97.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444966	Color (true)	0.539	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436501

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444954	Turbidity	9.09	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444713	Chloride	1.32	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444713	Sulfate	1.03	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436763

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444968	Ammonia-N	0.531	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444969	Kjeldahl Nitrogen	7.34	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444879	NO2NO3-N	1.53	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436515

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444890	Total-P	0.0660	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436490

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444970	O-Phosphate-P	1.05	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P436674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444889	Total Alkalinity	0.329	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444291	TDS	5.00	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P436962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444967	TDS	6.51	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436675

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444889	Fluoride	0.520	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P436849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445098	Organic Carbon	2.47	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122143

Included Lab Sample IDs: 2444970, 2444971

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.5	96.9	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A122146

Included Lab Sample IDs: 2444966, 2444967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122147

Included Lab Sample IDs: 2444966, 2444967

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122194

Included Lab Sample IDs: 2444968, 2444969

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122201

Included Lab Sample IDs: 2444968, 2444969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	97.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122209

Included Lab Sample IDs: 2444966, 2444967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	102	P/P	90 - 110
Sulfate	100	103	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A122214

Included Lab Sample IDs: 2444966, 2444967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.9	95.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122214

Included Lab Sample IDs: 2444966, 2444967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122221

Included Lab Sample IDs: 2444968, 2444969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122246

Included Lab Sample IDs: 2444968, 2444969

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

Reference Method: SM 5310 B-2011

Run ID: A122276

Included Lab Sample IDs: 2444968, 2444969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	97.2	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)	99.9			0.539	
EPA 180.1 Rev. 2.0	Turbidity	104			9.09	
EPA 300.0 Rev. 2.1	Chloride	103	103	101	1.32	
	Sulfate	102	102	100	1.03	
EPA 350.1 Rev. 2.0	Ammonia-N	100	99.4	100		0.531
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	93.4	106		7.34
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	94.8	93.3		1.53
EPA 365.1 Rev. 2.0	Total-P	102	104	104		0.0660
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	96.1	95.1		1.05
SM 2320 B-2011	Total Alkalinity	97.6			0.329	
SM 2540 C-2015	TDS	91.6			5.00	
	TDS	92.8			6.51	
SM 2540 D-2015	TSS	107				
	TSS	107				
SM 4500-F- C-2011	Fluoride	99.4	101	100		0.520
SM 5310 B-2011	Organic Carbon	97.4	94.3	97.1		2.47

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2444966, 2444967
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2444966, 2444967
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2444966, 2444967
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2444966, 2444967
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2444968, 2444969
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2444968, 2444969
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2444968, 2444969
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2444968, 2444969
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2444970, 2444971
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2444966, 2444967
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2444966, 2444967
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2444966, 2444967
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2444966, 2444967
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2444968, 2444969

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	10/13/2023			10/13/2023 14:46	Anna M. Plaviak	2444966, 2444967
EPA 180.1 Rev. 2.0	10/13/2023			10/13/2023 14:13	Khloe J Berg	2444966
	10/13/2023			10/13/2023 14:15	Khloe J Berg	2444967
EPA 300.0 Rev. 2.1	10/13/2023			10/19/2023 01:21	James L Waggeberby	2444966
	10/13/2023			10/19/2023 01:36	James L Waggeberby	2444967
EPA 350.1 Rev. 2.0	10/13/2023			10/19/2023 13:58	Khloe J Berg	2444968
	10/13/2023			10/19/2023 14:03	Khloe J Berg	2444969
EPA 351.2 Rev. 2.0	10/13/2023	10/16/2023 13:15	Simonne.V. Calhoun	10/18/2023 12:56	Samantha L Bates	2444968
	10/13/2023	10/16/2023 13:15	Simonne.V. Calhoun	10/18/2023 12:57	Samantha L Bates	2444969
EPA 353.2 Rev. 2.0	10/13/2023			10/17/2023 12:50	Fadila Guebre	2444968
	10/13/2023			10/17/2023 12:51	Fadila Guebre	2444969
EPA 365.1 Rev. 2.0	10/13/2023	10/16/2023 12:31	Adam P Silver	10/17/2023 12:46	James L Waggeberby	2444968
	10/13/2023	10/16/2023 12:31	Adam P Silver	10/17/2023 12:47	James L Waggeberby	2444969
EPA 365.1 Rev. 2.0 dissolved	10/13/2023			10/13/2023 13:57	Chandler E Cox	2444970
	10/13/2023			10/13/2023 13:59	Chandler E Cox	2444971
SM 2320 B-2011	10/13/2023			10/17/2023 20:23	Chandler E Cox	2444966
	10/13/2023			10/17/2023 20:35	Chandler E Cox	2444967
SM 2540 C-2015	10/13/2023			10/16/2023 15:32	Yijie Li	2444966, 2444967
SM 2540 D-2015	10/13/2023			10/16/2023 15:32	Yijie Li	2444966, 2444967
SM 4500-F- C-2011	10/13/2023			10/17/2023 20:23	Chandler E Cox	2444966
	10/13/2023			10/17/2023 20:35	Chandler E Cox	2444967
SM 5310 B-2011	10/13/2023			10/19/2023 19:01	Elise M. Gillis	2444968
	10/13/2023			10/19/2023 19:14	Elise M. Gillis	2444969