

Chemical Analysis Report

NW-DIST-2023-11-28-01

Florida DEP Laboratory
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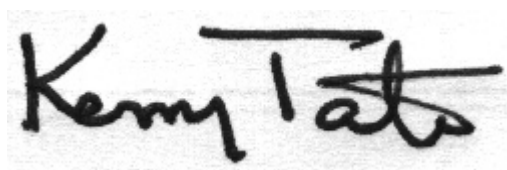
Event Description: **Sandestin Make-up**
Request ID: **RQ-2023-11-27-18**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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160 W Government Street
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 13-DEC-2023 11:26

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive 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: DIRECT RUNOFF TO BAY OFF OF ROBERTS RD

Collection Date/Time: 11/27/2023 11:45

Field ID: G3NW0239

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452883	DEP SOP: NU-094-1	Color (true)	23		PCU	P438245	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P438249	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P438359	
		Sulfate	18		mg SO4/L	P438362	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P438330	
	SM 2540 C-2015	TDS	72		mg/L	P438788	
	SM 2540 D-2015	TSS	2	I	mg/L	P438693	
	SM 4500-F- C-2011	Fluoride	0.046	I	mg F/L	P438332	
2452885	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P438561	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.34		mg N/L	P438308	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P438472	
	EPA 365.1 Rev. 2.0	Total-P	0.005		mg P/L	P438325	
	SM 5310 B-2011	Organic Carbon	7.3		mg C/L	P438314	

Ref. Method and Comment:

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Hogtown Drain above Chat Holly Rd

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

Field ID: G3NW0241

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452884	DEP SOP: NU-094-1	Color (true)	23		PCU	P438245	
	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P438249	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P438359	
		Sulfate	9.7		mg SO4/L	P438362	
	SM 2320 B-2011	Total Alkalinity	37		mg CaCO3/L	P438330	
	SM 2540 C-2015	TDS	80		mg/L	P438788	
	SM 2540 D-2015	TSS	3	I	mg/L	P438693	
	SM 4500-F- C-2011	Fluoride	0.060	I	mg F/L	P438332	
2452886	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P438561	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.46		mg N/L	P438310	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.086		mg N/L	P438394	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P438325	
	SM 5310 B-2011	Organic Carbon	6.5		mg C/L	P438314	

Ref. Method and Comment:

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P438245

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438249

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438359

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438362

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438561

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438308

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438310

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438394

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438472

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438325

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

Reference Method: SM 2320 B-2011
Batch ID: P438330

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

Reference Method: SM 2540 C-2015
Batch ID: P438788

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P438693

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P438332

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P438314

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: P438245

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: P438249

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438359

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438362

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438561

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438308

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438310

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438394

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	96.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438472

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438325

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

Reference Method: SM 2320 B-2011
Batch ID: P438330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.8		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P438788

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

Reference Method: SM 2540 D-2015
Batch ID: P438693

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P438332

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

Reference Method: SM 5310 B-2011
Batch ID: P438314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452598	Chloride	104		P	90 - 110
2452883	Chloride	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452598	Sulfate	107		P	90 - 110
2452883	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438561

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452856	Ammonia-N	97.6	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438308

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452885	Kjeldahl Nitrogen	106	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438394

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452886	NO2NO3-N	96.5	96.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438472

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453418	NO2NO3-N	98.0	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438325

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452867	Total-P	107	102	P/P	90 - 110

Reference Method: SM 5310 B-2011
Batch ID: P438314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452885	Organic Carbon	96.6	95.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452896	Color (true)	0.285	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452709	Turbidity	1.27	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452598	Chloride	1.15	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452598	Sulfate	0.267	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452856	Ammonia-N	1.74	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452885	Kjeldahl Nitrogen	3.14	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438310

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452897	Kjeldahl Nitrogen	12.1	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438394

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452886	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438472

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453418	NO2NO3-N	0.489	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452867	Total-P	4.34	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P438330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452866	Total Alkalinity	0.494	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P438788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452745	TDS	6.91	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P438693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452745	TSS	7.41	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452866	Fluoride	0.986	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P438314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452885	Organic Carbon	0.983	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: A122915

Included Lab Sample IDs: 2452883, 2452884

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122917

Included Lab Sample IDs: 2452883, 2452884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: SM 5310 B-2011

Run ID: A122947

Included Lab Sample IDs: 2452885, 2452886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.3	95.9	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122949

Included Lab Sample IDs: 2452883, 2452884

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

Reference Method: SM 2320 B-2011

Run ID: A122950

Included Lab Sample IDs: 2452883, 2452884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.7	95.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122950

Included Lab Sample IDs: 2452883, 2452884

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122978

Included Lab Sample IDs: 2452886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	97.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122992

Included Lab Sample IDs: 2452885

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123011

Included Lab Sample IDs: 2452885, 2452886

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123014

Included Lab Sample IDs: 2452885

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A123024

Included Lab Sample IDs: 2452886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.8	98.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123056

Included Lab Sample IDs: 2452885, 2452886

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	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)	101			0.285	
EPA 180.1 Rev. 2.0	Turbidity	104			1.27	
EPA 300.0 Rev. 2.1	Chloride	101	104	98.5	1.15	
	Sulfate	101	107	104	0.267	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	97.6	99.6		1.74
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	106	103		3.14
	Kjeldahl Nitrogen	98.8				12.1
EPA 353.2 Rev. 2.0	NO2NO3-N	96.0	96.5	96.5		0.0
	NO2NO3-N	100	98.0	98.5		0.489
EPA 365.1 Rev. 2.0	Total-P	104	107	102		4.34
SM 2320 B-2011	Total Alkalinity	97.8			0.494	
SM 2540 C-2015	TDS	92.4			6.91	
SM 2540 D-2015	TSS	102			7.41	
SM 4500-F- C-2011	Fluoride	101				0.986
SM 5310 B-2011	Organic Carbon	96.3	96.6	95.3		0.983

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2452883, 2452884
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2452883, 2452884
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2452883, 2452884
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2452883, 2452884
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2452885, 2452886
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2452885, 2452886
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2452885, 2452886
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2452885, 2452886
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2452883, 2452884
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2452883, 2452884
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2452883, 2452884
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2452883, 2452884
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2452885, 2452886

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	11/28/2023			11/28/2023 13:41	Blanca Fach	2452883, 2452884
EPA 180.1 Rev. 2.0	11/28/2023			11/28/2023 13:36	Anna M. Plaviak	2452883
	11/28/2023			11/28/2023 13:37	Anna M. Plaviak	2452884
EPA 300.0 Rev. 2.1	11/28/2023			11/30/2023 01:15	James L Waggeberby	2452883
	11/28/2023			11/30/2023 06:32	James L Waggeberby	2452884
EPA 350.1 Rev. 2.0	11/28/2023			12/06/2023 11:37	Khloe J Berg	2452885
	11/28/2023			12/06/2023 11:38	Khloe J Berg	2452886
EPA 351.2 Rev. 2.0	11/28/2023	12/01/2023 09:23	Simonne.V. Calhoun	12/01/2023 13:56	Ping Hua	2452885
	11/28/2023	12/01/2023 09:23	Simonne.V. Calhoun	12/05/2023 11:01	Samantha L Bates	2452886
EPA 353.2 Rev. 2.0	11/28/2023			11/30/2023 10:24	Anna M. Plaviak	2452886
	11/28/2023			12/04/2023 12:48	Fadila Guebre	2452885
EPA 365.1 Rev. 2.0	11/28/2023	11/30/2023 12:55	Adam P Silver	12/04/2023 13:26	Chandler E Cox	2452885
	11/28/2023	11/30/2023 12:55	Adam P Silver	12/04/2023 13:27	Chandler E Cox	2452886
SM 2320 B-2011	11/28/2023			11/29/2023 20:18	Chandler E Cox	2452883
	11/28/2023			11/29/2023 20:29	Chandler E Cox	2452884
SM 2540 C-2015	11/28/2023			12/01/2023 15:02	Yijie Li	2452883, 2452884
SM 2540 D-2015	11/28/2023			12/01/2023 15:02	Yijie Li	2452883, 2452884
SM 4500-F- C-2011	11/28/2023			11/29/2023 20:18	Chandler E Cox	2452883
	11/28/2023			11/29/2023 20:29	Chandler E Cox	2452884
SM 5310 B-2011	11/28/2023			11/29/2023 14:29	Kenneth H Lee	2452885
	11/28/2023			11/29/2023 15:22	Kenneth H Lee	2452886