

Chemical Analysis Report

SW-DIST-2022-12-15-03

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

Event Description: **Itchty Creeks**
Request ID: **RQ-2022-12-12-40**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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Certified by: Colin Wright, Program Administrator

Date Certified: 09-JAN-2023 15:26

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Nutrients.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Itchepackesassa Creek @ Walker Rd.

Collection Date/Time: 12/14/2022 10:40

Field ID: G2SW0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375715	DEP SOP: NU-094-1	Color (true)	73		PCU	P423606	
	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P423623	
	EPA 300.0 Rev. 2.1	Chloride	19		mg Cl/L	P423938	
		Sulfate	9.8		mg SO4/L	P423941	
	SM 2320 B-2011	Total Alkalinity	80		mg CaCO3/L	P423946	
	SM 2540 C-2015	TDS	147		mg/L	P424056	
	SM 2540 D-2015	TSS	4	I	mg/L	P423856	
2375717	SM 4500-F- C-2011	Fluoride	0.36		mg F/L	P423951	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.031		mg N/L	P424075	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P423818	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P423831	
	EPA 365.1 Rev. 2.0	Total-P	0.31		mg P/L	P423792	
2375719	SM 5310 B-2011	Organic Carbon	12		mg C/L	P423699	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.24		mg P/L	P423618	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Itchepackesassa Creek in Park

Collection Date/Time: 12/14/2022 11:50

Field ID: G2SW0145

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375716	DEP SOP: NU-094-1	Color (true)	42		PCU	P423606	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P423623	
	EPA 300.0 Rev. 2.1	Chloride	66		mg Cl/L	P423938	
		Sulfate	60		mg SO4/L	P423941	
	SM 2320 B-2011	Total Alkalinity	170		mg CaCO3/L	P423946	
	SM 2540 C-2015	TDS	358		mg/L	P424056	
	SM 2540 D-2015	TSS	3	I	mg/L	P423856	
	SM 4500-F- C-2011	Fluoride	0.43		mg F/L	P423951	
2375718	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P424075	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.54		mg N/L	P423818	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P423831	
	EPA 365.1 Rev. 2.0	Total-P	0.22		mg P/L	P423792	
	SM 5310 B-2011	Organic Carbon	8.2		mg C/L	P423699	
2375720	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.18		mg P/L	P423618	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: 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: P423606

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423623

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423938

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423941

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424075

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423818

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423831

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423792

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423618

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: P423946

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

Reference Method: SM 2540 C-2015
Batch ID: P424056

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P423856

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P423951

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P423699

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: P423606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	103		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423623

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423938

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423941

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424075

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423818

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423831

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	108		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423792

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423618

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P423946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P424056

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

Reference Method: SM 2540 D-2015
Batch ID: P423856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	104		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P423951

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P423699

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375906	Chloride	101		P	90 - 110
2375913	Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423941

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375906	Sulfate	100		P	90 - 110
2375913	Sulfate	98.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424075

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375621	Ammonia-N	96.6	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375705	Kjeldahl Nitrogen	101	99.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423831

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375634	NO2NO3-N	106	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423618

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375707	O-Phosphate-P	92.0	93.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P423951

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375528	Fluoride	100	99.5	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P423699

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375622	Organic Carbon	97.3	97.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P423606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375701	Color (true)	1.30	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375595	Turbidity	0.250	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375906	Chloride	0.114	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375906	Sulfate	1.26	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375621	Ammonia-N	1.06	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375705	Kjeldahl Nitrogen	0.797	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423831

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375634	NO2NO3-N	0.851	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375743	Total-P	3.04	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423618

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375707	O-Phosphate-P	1.19	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P423946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375528	Total Alkalinity	0.302	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P424056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375700	TDS	3.36	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P423951

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375528	Fluoride	0.477	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P423699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375622	Organic Carbon	0.0708	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: A116468

Included Lab Sample IDs: 2375715, 2375716

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A116477

Included Lab Sample IDs: 2375719, 2375720

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A116478

Included Lab Sample IDs: 2375715, 2375716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: SM 5310 B-2011

Run ID: A116527

Included Lab Sample IDs: 2375717, 2375718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	99.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A116559

Included Lab Sample IDs: 2375715, 2375716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.5	102	P/P	90 - 110
Sulfate	98.8	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A116597

Included Lab Sample IDs: 2375717, 2375718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A116631

Included Lab Sample IDs: 2375717, 2375718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	100	P/P	90 - 110
Total-P	100	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A116652

Included Lab Sample IDs: 2375715, 2375716

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

Reference Method: SM 2320 B-2011

Run ID: A116652

Included Lab Sample IDs: 2375715, 2375716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.0	99.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A116652

Included Lab Sample IDs: 2375715, 2375716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	107	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A116711

Included Lab Sample IDs: 2375717, 2375718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.3	97.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A116719

Included Lab Sample IDs: 2375717, 2375718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.1	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)	103			1.30	
EPA 180.1 Rev. 2.0	Turbidity	100			0.250	
EPA 300.0 Rev. 2.1	Chloride	98.7	101	99.3	0.114	
	Sulfate	98.4	100	98.0	1.26	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	96.6	97.8		1.06
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.7	101	99.8		0.797
EPA 353.2 Rev. 2.0	NO2NO3-N	108	106	107		0.851
EPA 365.1 Rev. 2.0	Total-P	103				3.04
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.6	92.0	93.1		1.19
SM 2320 B-2011	Total Alkalinity	98.9			0.302	
SM 2540 C-2015	TDS	97.1			3.36	
SM 2540 D-2015	TSS	104				
SM 4500-F- C-2011	Fluoride	102	100	99.5		0.477
SM 5310 B-2011	Organic Carbon	95.6	97.3	97.2		0.0708

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2375715, 2375716
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2375715, 2375716
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2375715, 2375716
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2375715, 2375716
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2375717, 2375718
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2375717, 2375718
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2375717, 2375718
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2375717, 2375718
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2375719, 2375720
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2375715, 2375716
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2375715, 2375716
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2375715, 2375716
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2375715, 2375716
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2375717, 2375718

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	12/15/2022			12/15/2022 14:29	Samantha L Bates	2375715, 2375716
EPA 180.1 Rev. 2.0	12/15/2022			12/15/2022 13:39	Chandler E Cox	2375715
	12/15/2022			12/15/2022 13:40	Chandler E Cox	2375716
EPA 300.0 Rev. 2.1	12/15/2022			12/22/2022 15:21	Anna M. Plaviak	2375715
	12/15/2022			12/22/2022 15:36	Anna M. Plaviak	2375716
EPA 350.1 Rev. 2.0	12/15/2022			01/03/2023 16:41	Ping Hua	2375717
	12/15/2022			01/03/2023 16:43	Ping Hua	2375718
EPA 351.2 Rev. 2.0	12/15/2022	12/21/2022 16:20	Simonne.V. Calhoun	01/04/2023 11:03	Samantha L Bates	2375717
	12/15/2022	12/21/2022 16:20	Simonne.V. Calhoun	01/04/2023 11:05	Samantha L Bates	2375718
EPA 353.2 Rev. 2.0	12/15/2022			12/21/2022 10:43	Beverly Y. Sanders	2375717
	12/15/2022			12/21/2022 10:45	Beverly Y. Sanders	2375718
EPA 365.1 Rev. 2.0	12/15/2022	12/21/2022 15:15	Simonne.V. Calhoun	12/22/2022 11:38	James L Waggeberby	2375717
	12/15/2022	12/21/2022 15:15	Simonne.V. Calhoun	12/22/2022 11:41	James L Waggeberby	2375718
EPA 365.1 Rev. 2.0 dissolved	12/15/2022			12/15/2022 14:26	Elise M. Gillis	2375719
	12/15/2022			12/15/2022 14:27	Elise M. Gillis	2375720
SM 2320 B-2011	12/15/2022			12/23/2022 12:02	Dale L. Simmons	2375715
	12/15/2022			12/23/2022 12:16	Dale L. Simmons	2375716
SM 2540 C-2015	12/15/2022			12/19/2022 16:08	Yijie Li	2375715, 2375716
SM 2540 D-2015	12/15/2022			12/19/2022 16:08	Yijie Li	2375715, 2375716
SM 4500-F- C-2011	12/15/2022			12/23/2022 12:02	Dale L. Simmons	2375715
	12/15/2022			12/23/2022 12:16	Dale L. Simmons	2375716
SM 5310 B-2011	12/15/2022			12/17/2022 02:42	Khloe J Berg	2375717
	12/15/2022			12/17/2022 02:59	Khloe J Berg	2375718