

Chemical Analysis Report

TLH-ROC-2021-12-13-01

Florida Department of Environmental Protection
Central Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

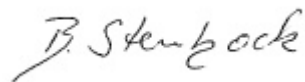
Event Description: **Run 3**
Request ID: **RQ-2021-08-02-72**
Customer: **TLH-ROC**
Project ID: **SMP**

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Date Certified: 05-JAN-2022 14:55



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: Williford Spring

Collection Date/Time: 12/13/2021 10:30

Field ID: G3TLHR0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2294763	EPA 180.1 Rev. 2.0	Turbidity	0.40		NTU	P407432	
	EPA 300.0 Rev. 2.1	Chloride	2.6	A	mg Cl/L	P407527	
		Sulfate	1.3	A	mg SO4/L	P407530	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P407438	
	SM 2320 B-2011	Total Alkalinity	68		mg CaCO3/L	P407541	
	SM 2540 C-2011	TDS	72		mg/L	P407760	
	SM 2540 D-2011	TSS	2	U	mg/L	P407763	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P407544	
2294765	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P407755	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P407862	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.15		mg N/L	P407402	
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P407418	MS
	SM 5310 B-2011	Organic Carbon	0.74	I	mg C/L	P407796	
2294767	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P407442	

Ref. Method and Comment:

SM 2120 B-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Merial Lake Center

Collection Date/Time: 12/13/2021 11:15

Field ID: G3TLHR0014

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2294764	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P407432	
	EPA 300.0 Rev. 2.1	Chloride	2.6		mg Cl/L	P407527	
		Sulfate	1.7		mg SO4/L	P407530	
	SM 2120 B-2011	Color (true)	5.3	I	PCU	P407438	
	SM 2320 B-2011	Total Alkalinity	0.95	I	mg CaCO3/L	P407541	
	SM 2540 C-2011	TDS	18	I	mg/L	P407760	
	SM 2540 D-2011	TSS	2	I	mg/L	P407763	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P407544	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P407808	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.19	I	mg N/L	P407862	
2294766	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P407402	
	EPA 365.1 Rev. 2.0	Total-P	0.01		mg P/L	P407418	MS
	SM 5310 B-2011	Organic Carbon	3.4		mg C/L	P407796	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P407442	

Ref. Method and Comment:

SM 2120 B-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407432

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407527

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407530

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407755

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407808

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407862

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407402

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407418

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407442

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P407438

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P407541

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

Reference Method: SM 2540 C-2011
Batch ID: P407760

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P407763

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P407544

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P407796

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407530

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407755

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407808

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407862

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407402

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407418

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407442

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

Reference Method: SM 2120 B-2011
Batch ID: P407438

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P407541

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P407544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P407796

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294763	Chloride	99.7		P	90 - 110
2294827	Chloride	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294763	Sulfate	97.4		P	90 - 110
2294827	Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294380	Ammonia-N	96.2	97.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294502	Ammonia-N	96.8	97.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294547	Kjeldahl Nitrogen	103	95.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407402

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294765	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294627	Total-P	109	112	P/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407442

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294767	O-Phosphate-P	98.1	99.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P407544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294787	Fluoride	101	101	P/P	92 - 107

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P407796

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294602	Organic Carbon	95.8	96.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294941	Turbidity	13.8	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294763	Chloride	1.87	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407530

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294763	Sulfate	1.77	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294380	Ammonia-N	1.17	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407808

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294502	Ammonia-N	0.823	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294547	Kjeldahl Nitrogen	3.97	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294765	NO2NO3-N	0.284	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294627	Total-P	2.20	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294767	O-Phosphate-P	1.08	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P407541

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294787	Total Alkalinity	0.792	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P407760

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294827	TDS	5.54	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P407544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294787	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P407796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294602	Organic Carbon	0.383	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A109366

Included Lab Sample IDs: 2294765, 2294766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A109375

Included Lab Sample IDs: 2294763, 2294764

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

Reference Method: SM 2120 B-2011

Run ID: A109376

Included Lab Sample IDs: 2294763, 2294764

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	105	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A109377

Included Lab Sample IDs: 2294767, 2294768

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.3	98.9	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A109387

Included Lab Sample IDs: 2294763, 2294764

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Sulfate	99.9	100	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A109427

Included Lab Sample IDs: 2294763, 2294764

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.2	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A109427

Included Lab Sample IDs: 2294763, 2294764

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109461

Included Lab Sample IDs: 2294765, 2294766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109461

Included Lab Sample IDs: 2294765, 2294766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A109511

Included Lab Sample IDs: 2294765

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	105	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A109530

Included Lab Sample IDs: 2294765, 2294766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	96.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A109591

Included Lab Sample IDs: 2294765, 2294766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.5	93.9	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
EPA 180.1 Rev. 2.0	Turbidity				13.8	
EPA 300.0 Rev. 2.1	Chloride	99.3	99.7	98.1	1.87	
	Sulfate	98.1	97.4	96.2	1.77	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	96.2	97.4		1.17
	Ammonia-N	93.6	96.8	97.6		0.823
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	103	95.1		3.97
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	101	102		0.284
EPA 365.1 Rev. 2.0	Total-P	106	109	112		2.20
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.7	98.1	99.3		1.08
SM 2120 B-2011	Color (true)	103				
SM 2320 B-2011	Total Alkalinity	100			0.792	
SM 2540 C-2011	TDS				5.54	
SM 4500 F-C-2011	Fluoride	99.6	101	101		0.0
SM 5310 B-2011	Organic Carbon	96.4	95.8	96.3		0.383

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2294763, 2294764
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2294763, 2294764
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2294763, 2294764
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2294765, 2294766
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2294765, 2294766
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2294765, 2294766
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2294765, 2294766
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2294767, 2294768
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2294763, 2294764
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2294763, 2294764
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2294763, 2294764
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2294763, 2294764
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2294763, 2294764
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2294765, 2294766

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	12/13/2021			12/14/2021 16:32	Khloe J Berg	2294763, 2294764
EPA 300.0 Rev. 2.1	12/13/2021			12/15/2021 19:12	Roberta Tatti	2294763
	12/13/2021			12/15/2021 20:12	Roberta Tatti	2294764
EPA 350.1 Rev. 2.0	12/13/2021			12/21/2021 13:14	Ping Hua	2294765
	12/13/2021			12/22/2021 13:50	Ping Hua	2294766
EPA 351.2 Rev. 2.0	12/13/2021	12/27/2021 11:02	Samantha L Bates	12/28/2021 14:06	Virginia P. Brown	2294765
	12/13/2021	12/27/2021 11:02	Samantha L Bates	12/28/2021 14:08	Virginia P. Brown	2294766
EPA 353.2 Rev. 2.0	12/13/2021			12/14/2021 10:55	Beverly Y. Sanders	2294765
	12/13/2021			12/14/2021 11:11	Beverly Y. Sanders	2294766
EPA 365.1 Rev. 2.0	12/13/2021	12/15/2021 17:30	Simonne.V. Calhoun	12/17/2021 13:45	Shengyu Ding	2294765
	12/13/2021	12/15/2021 17:30	Simonne.V. Calhoun	12/17/2021 13:53	Shengyu Ding	2294766
EPA 365.1 Rev. 2.0 dissolved	12/13/2021			12/14/2021 17:08	James L Waggeberby	2294767
	12/13/2021			12/14/2021 17:10	James L Waggeberby	2294768
SM 2120 B-2011	12/13/2021			12/14/2021 16:52	Samantha L Bates	2294763
	12/13/2021			12/14/2021 16:53	Samantha L Bates	2294764
SM 2320 B-2011	12/13/2021			12/15/2021 18:58	Dale L. Simmons	2294763
	12/13/2021			12/15/2021 19:07	Dale L. Simmons	2294764
SM 2540 C-2011	12/13/2021			12/17/2021 15:25	Yijie Li	2294763, 2294764
SM 2540 D-2011	12/13/2021			12/17/2021 15:35	Yijie Li	2294763, 2294764
SM 4500 F-C-2011	12/13/2021			12/15/2021 18:58	Dale L. Simmons	2294763
	12/13/2021			12/15/2021 19:07	Dale L. Simmons	2294764
SM 5310 B-2011	12/13/2021			12/21/2021 04:06	Khloe J Berg	2294765
	12/13/2021			12/21/2021 04:20	Khloe J Berg	2294766