

Chemical Analysis Report

SW-DIST-2021-08-26-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Run 9**
Request ID: **RQ-2021-08-23-51**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 21-SEP-2021 13:58

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored 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: Starvation Lake @ Center

Collection Date/Time: 08/25/2021 11:30

Field ID: G1SW0110

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2272229	EPA 180.1 Rev. 2.0	Turbidity	0.85		NTU	P403043	
	EPA 300.0 Rev. 2.1	Chloride	29		mg Cl/L	P403342	
		Sulfate	2.7		mg SO4/L	P403343	
	SM 2120 B-2011	Color (true)	74	A	PCU	P403046	
	SM 2320 B-2011	Total Alkalinity	25		mg CaCO3/L	P403167	
	SM 2540 C-2011	TDS	101		mg/L	P403402	
	SM 2540 D-2011	TSS	2	I	mg/L	P403395	
	SM 4500 F-C-2011	Fluoride	0.089	I	mg F/L	P403169	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P403321	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59		mg N/L	P403315	
2272230	EPA 353.2 Rev. 2.0	NO2NO3-N	0.015		mg N/L	P403185	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P403141	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P403548	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P403038	

Ref. Method and Comment:

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

Sample Location: Little Lake Wilson Center

Collection Date/Time: 08/25/2021 14:20

Field ID: G1SW0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2272232	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P403043	
	EPA 300.0 Rev. 2.1	Chloride	48		mg Cl/L	P403342	
		Sulfate	2.9		mg SO4/L	P403343	
	SM 2120 B-2011	Color (true)	65		PCU	P403046	
	SM 2320 B-2011	Total Alkalinity	62		mg CaCO3/L	P403167	
	SM 2540 C-2011	TDS	170	A	mg/L	P403402	
	SM 2540 D-2011	TSS	3	IA	mg/L	P403395	
	SM 4500 F-C-2011	Fluoride	0.065	I	mg F/L	P403169	
2272233	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P403321	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P403315	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P403185	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P403141	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P403345	
2272234	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P403038	

Ref. Method and Comment:

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: P403043

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403342

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403343

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403321

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403315

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403185

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P403141

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P403038

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

Reference Method: SM 2120 B-2011
Batch ID: P403046

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P403167

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

Reference Method: SM 2540 C-2011
Batch ID: P403402

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P403395

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P403169

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P403345

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

Reference Method: SM 5310 B-2011
Batch ID: P403548

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: P403342

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403343

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403321

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403315

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403185

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P403141

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P403038

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

Reference Method: SM 2120 B-2011
Batch ID: P403046

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

Reference Method: SM 2320 B-2011
Batch ID: P403167

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	94 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P403169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P403345

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.2		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P403548

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403342

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272141	Chloride	96.4		P	90 - 110
2272229	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403343

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272141	Sulfate	96.7		P	90 - 110
2272229	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403321

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272182	Ammonia-N	96.2	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403315

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272394	Kjeldahl Nitrogen	110	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P403185

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272189	NO2NO3-N	97.8	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P403141

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272147	Total-P	104	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P403038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272191	O-Phosphate-P	99.7	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P403169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272393	Fluoride	98.4	98.4	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P403345

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272233	Organic Carbon	96.2	98.8	P/P	85 - 115

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P403548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2272182	Organic Carbon	99.8	97.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P403043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272144	Turbidity	1.92	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P403342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272141	Chloride	0.610	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P403343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272141	Sulfate	1.14	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P403321

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272182	Ammonia-N	1.46	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P403315

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272394	Kjeldahl Nitrogen	2.04	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P403185

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272189	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P403141

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272147	Total-P	1.75	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P403038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272191	O-Phosphate-P	1.20	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
 Batch ID: P403046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272229	Color (true)	1.41	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P403167

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272393	Total Alkalinity	0.0994	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
 Batch ID: P403402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272232	TDS	5.88	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P403169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272393	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
 Batch ID: P403345

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272233	Organic Carbon	1.58	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
 Batch ID: P403548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2272182	Organic Carbon	1.96	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: A107484

Included Lab Sample IDs: 2272231, 2272234

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A107487

Included Lab Sample IDs: 2272229, 2272232

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.0	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A107489

Included Lab Sample IDs: 2272229, 2272232

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A107555

Included Lab Sample IDs: 2272230, 2272233

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A107559

Included Lab Sample IDs: 2272229, 2272232

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

Reference Method: SM 4500 F-C-2011

Run ID: A107559

Included Lab Sample IDs: 2272229, 2272232

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107570

Included Lab Sample IDs: 2272230, 2272233

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.8	P/P	90 - 110
Total-P	98.5	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A107618

Included Lab Sample IDs: 2272230, 2272233

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A107634

Included Lab Sample IDs: 2272229, 2272232

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

Reference Method: SM 5310 B-2011

Run ID: A107635

Included Lab Sample IDs: 2272233

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107640

Included Lab Sample IDs: 2272230, 2272233

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.6	99.0	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A107704

Included Lab Sample IDs: 2272230

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	97.0	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements. Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					1.92	
EPA 300.0 Rev. 2.1	Chloride	100	96.4	97.9		0.610	
	Sulfate	99.9	96.7	100		1.14	
EPA 350.1 Rev. 2.0	Ammonia-N	98.6	96.2	98.0			1.46
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	110	106			2.04
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	98.5	97.8	97.8			0.0
EPA 365.1 Rev. 2.0	Total-P	105	104	106			1.75
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	99.7	101			1.20
SM 2120 B-2011	Color (true)	103				1.41	
SM 2320 B-2011	Total Alkalinity	103				0.0994	
SM 2540 C-2011	TDS					5.88	
SM 4500 F-C-2011	Fluoride	99.0	98.4	98.4			0.0
SM 5310 B-2011	Organic Carbon	99.2	96.2	98.8			1.58
	Organic Carbon	94.4	99.8	97.5			1.96

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2272229, 2272232
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2272229, 2272232
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2272229, 2272232
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2272230, 2272233
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2272230, 2272233
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2272230, 2272233
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2272230, 2272233
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2272231, 2272234
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2272229, 2272232
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2272229, 2272232
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2272229, 2272232
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2272229, 2272232
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2272229, 2272232
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2272230, 2272233

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	08/26/2021			08/26/2021 15:25	Sarah A Nixon	2272229, 2272232
EPA 300.0 Rev. 2.1	08/26/2021			09/02/2021 17:03	Roberta Tatti	2272229
	08/26/2021			09/02/2021 19:41	Roberta Tatti	2272232
EPA 350.1 Rev. 2.0	08/26/2021			09/02/2021 12:38	Ping Hua	2272230
	08/26/2021			09/02/2021 12:39	Ping Hua	2272233
EPA 351.2 Rev. 2.0	08/26/2021	09/02/2021 13:17	Benjamin T. Nordmann	09/03/2021 12:11	Alexandra J Mattheus	2272230
	08/26/2021	09/02/2021 13:17	Benjamin T. Nordmann	09/03/2021 12:13	Alexandra J Mattheus	2272233
EPA 353.2 Rev. 2.0	08/26/2021			08/30/2021 11:02	Beverly Y. Sanders	2272230
	08/26/2021			08/30/2021 11:04	Beverly Y. Sanders	2272233
EPA 365.1 Rev. 2.0	08/26/2021	08/30/2021 14:00	Simonne.V. Calhoun	08/31/2021 14:25	Shengyu Ding	2272230
	08/26/2021	08/30/2021 14:00	Simonne.V. Calhoun	08/31/2021 14:33	Shengyu Ding	2272233
EPA 365.1 Rev. 2.0 dissolved	08/26/2021			08/26/2021 14:58	James L Waggeberby	2272231
	08/26/2021			08/26/2021 14:59	James L Waggeberby	2272234
SM 2120 B-2011	08/26/2021			08/26/2021 16:42	Sarah A Nixon	2272229, 2272232
SM 2320 B-2011	08/26/2021			08/30/2021 17:29	Dale L. Simmons	2272229
	08/26/2021			08/30/2021 17:44	Dale L. Simmons	2272232
SM 2540 C-2011	08/26/2021			08/30/2021 15:46	Yijie Li	2272229, 2272232
SM 2540 D-2011	08/26/2021			08/30/2021 14:36	Yijie Li	2272229, 2272232
SM 4500 F-C-2011	08/26/2021			08/30/2021 17:29	Dale L. Simmons	2272229
	08/26/2021			08/30/2021 17:44	Dale L. Simmons	2272232
SM 5310 B-2011	08/26/2021			09/02/2021 04:21	Touraj Touran	2272233
	08/26/2021			09/08/2021 19:09	Madeline Gruver	2272230