

Chemical Analysis Report

CEN-DIST-2021-08-20-01

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

Event Description: **Okahumpka/Deaton/Hidden**
Request ID: **RQ-2021-07-12-43**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matt Bearden

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 16-SEP-2021 14:36

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: Lake Deaton @ Center

Collection Date/Time: 08/19/2021 10:15

Field ID: G4CE0160

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2270898	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P402774	
	EPA 300.0 Rev. 2.1	Chloride	28		mg Cl/L	P403163	
		Sulfate	1.2		mg SO4/L	P403165	
	SM 2120 B-2011	Color (true)	31		PCU	P402778	
	SM 2320 B-2011	Total Alkalinity	32		mg CaCO3/L	P402851	
	SM 2540 C-2011	TDS	101		mg/L	P403217	
	SM 2540 D-2011	TSS	2	U	mg/L	P403196	
	SM 4500 F-C-2011	Fluoride	0.12		mg F/L	P402854	
2270900	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P403078	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.85		mg N/L	P403159	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P402939	
	EPA 365.1 Rev. 2.0	Total-P	0.01		mg P/L	P402844	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P403240	
2270902	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P402770	

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: Hidden Lake @ Center

Collection Date/Time: 08/19/2021 11:05

Field ID: G4CE0158

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2270899	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P402774	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P403163	
		Sulfate	0.64		mg SO4/L	P403165	
		Color (true)	130		PCU	P402778	
	SM 2320 B-2011	Total Alkalinity	114		mg CaCO3/L	P402851	
	SM 2540 C-2011	TDS	171		mg/L	P403217	
	SM 2540 D-2011	TSS	3	I	mg/L	P403196	
	SM 4500 F-C-2011	Fluoride	0.14		mg F/L	P402854	
2270901	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P403078	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P403159	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P402939	
	EPA 365.1 Rev. 2.0	Total-P	0.064		mg P/L	P402844	
	SM 5310 B-2011	Organic Carbon	21		mg C/L	P403240	
2270903	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P402770	

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: P402774

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403163

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403165

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403078

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403159

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402939

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402844

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402770

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

Reference Method: SM 2120 B-2011
Batch ID: P402778

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P402851

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

Reference Method: SM 2540 C-2011
Batch ID: P403217

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P403196

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P402854

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P403240

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: P403163

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P403165

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: P403078

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P403159

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P402939

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: P402844

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: P402770

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

Reference Method: SM 2120 B-2011
 Batch ID: P402778

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: SM 2320 B-2011
 Batch ID: P402851

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P402854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P403240

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.7		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2270411	Chloride	99.5		P	90 - 110
2270555	Chloride	99.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P403165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2270411	Sulfate	99.6		P	90 - 110
2270555	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P403078

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2270556	Ammonia-N	96.4	97.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P403159

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2270865	Kjeldahl Nitrogen	101	96.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2270700	NO2NO3-N	97.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2270900	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2270866	O-Phosphate-P	103	104	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P402854

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2271140	Fluoride	99.9	100	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P403240

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2270722	Organic Carbon	94.0	97.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P402774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270807	Turbidity	2.36	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P403163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270411	Chloride	0.0268	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P403165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270411	Sulfate	0.650	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P403078

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270556	Ammonia-N	1.18	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P403159

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270865	Kjeldahl Nitrogen	3.89	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P402939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270700	NO2NO3-N	2.30	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P402844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270900	Total-P	0.886	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P402770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270866	O-Phosphate-P	0.967	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P402778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270864	Color (true)	1.02	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P402851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2271140	Total Alkalinity	1.71	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P403217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270495	TDS	2.88	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P402854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2271140	Fluoride	0.472	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P403240

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2270722	Organic Carbon	1.99	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: A107370

Included Lab Sample IDs: 2270902, 2270903

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	101	P/P	90 - 110
O-Phosphate-P	101	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A107371

Included Lab Sample IDs: 2270898, 2270899

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A107372

Included Lab Sample IDs: 2270898, 2270899

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

Reference Method: SM 2320 B-2011

Run ID: A107408

Included Lab Sample IDs: 2270898, 2270899

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A107408

Included Lab Sample IDs: 2270898, 2270899

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A107449

Included Lab Sample IDs: 2270898, 2270899

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.1	99.5	P/P	90 - 110
Sulfate	99.2	99.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A107455

Included Lab Sample IDs: 2270900, 2270901

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107480

Included Lab Sample IDs: 2270901

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107480

Included Lab Sample IDs: 2270901

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A107511

Included Lab Sample IDs: 2270900, 2270901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	98.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107566

Included Lab Sample IDs: 2270900, 2270901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	100	P/P	90 - 110
Kjeldahl Nitrogen	95.6	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107570

Included Lab Sample IDs: 2270900

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

Reference Method: SM 5310 B-2011

Run ID: A107593

Included Lab Sample IDs: 2270900, 2270901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.5	97.1	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					2.36	
EPA 300.0 Rev. 2.1	Chloride	100	99.5	99.9		0.0268	
	Sulfate	99.9	99.6	101		0.650	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	96.4	97.6			1.18
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.2	101	96.1			3.89
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	97.0				2.30
EPA 365.1 Rev. 2.0	Total-P	106	104	105			0.886
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	106	103	104			0.967
SM 2120 B-2011	Color (true)	101				1.02	
SM 2320 B-2011	Total Alkalinity	101				1.71	
SM 2540 C-2011	TDS					2.88	
SM 4500 F-C-2011	Fluoride	101	99.9	100			0.472
SM 5310 B-2011	Organic Carbon	96.7	94.0	97.5			1.99

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2270898, 2270899
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2270898, 2270899
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2270898, 2270899
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2270900, 2270901
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2270900, 2270901
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2270900, 2270901
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2270900, 2270901
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2270902, 2270903
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2270898, 2270899
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2270898, 2270899
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2270898, 2270899
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2270898, 2270899
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2270898, 2270899
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2270900, 2270901

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	08/20/2021			08/20/2021 16:40	Sarah A Nixon	2270898, 2270899
EPA 300.0 Rev. 2.1	08/20/2021			08/27/2021 18:13	Lipi Saha	2270898
	08/20/2021			08/27/2021 18:26	Lipi Saha	2270899
EPA 350.1 Rev. 2.0	08/20/2021			08/27/2021 12:44	Ping Hua	2270900
	08/20/2021			08/27/2021 12:45	Ping Hua	2270901
EPA 351.2 Rev. 2.0	08/20/2021	08/30/2021 13:46	Benjamin T. Nordmann	08/31/2021 12:24	Alexandra J Mattheus	2270900
	08/20/2021	08/30/2021 13:46	Benjamin T. Nordmann	08/31/2021 12:29	Alexandra J Mattheus	2270901
EPA 353.2 Rev. 2.0	08/20/2021			08/25/2021 09:42	Beverly Y. Sanders	2270900
	08/20/2021			08/25/2021 09:43	Beverly Y. Sanders	2270901
EPA 365.1 Rev. 2.0	08/20/2021	08/24/2021 14:32	Simonne.V. Calhoun	08/25/2021 17:32	Shengyu Ding	2270901
	08/20/2021	08/24/2021 14:32	Simonne.V. Calhoun	08/31/2021 13:45	Shengyu Ding	2270900
EPA 365.1 Rev. 2.0 dissolved	08/20/2021			08/20/2021 15:13	James L Waggerby	2270902
	08/20/2021			08/20/2021 15:18	James L Waggerby	2270903
SM 2120 B-2011	08/20/2021			08/20/2021 18:20	Sarah A Nixon	2270898
	08/20/2021			08/20/2021 18:21	Sarah A Nixon	2270899
SM 2320 B-2011	08/20/2021			08/24/2021 00:37	Sarah A Nixon	2270898
	08/20/2021			08/24/2021 00:53	Sarah A Nixon	2270899
SM 2540 C-2011	08/20/2021			08/23/2021 15:36	Yijie Li	2270898, 2270899
SM 2540 D-2011	08/20/2021			08/23/2021 15:36	Yijie Li	2270898, 2270899
SM 4500 F-C-2011	08/20/2021			08/24/2021 00:37	Sarah A Nixon	2270898
	08/20/2021			08/24/2021 00:53	Sarah A Nixon	2270899
SM 5310 B-2011	08/20/2021			08/31/2021 08:51	Touraj Touran	2270900
	08/20/2021			08/31/2021 09:06	Touraj Touran	2270901