

Chemical Analysis Report

SE-DIST-2022-06-03-01

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

Event Description: **Wellington North**
Request ID: **RQ-2022-05-16-52**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 24-JUN-2022 10:53

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: ACME (NORTH SECTOR) EAST POND

Collection Date/Time: 06/02/2022 09:40

Field ID: G3SE0058

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331613	DEP SOP: NU-094-1	Color (true)**	27		PCU	P414726	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P414724	
	EPA 300.0 Rev. 2.1	Chloride	86		mg Cl/L	P415040	
		Sulfate	28		mg SO4/L	P415045	
	SM 2320 B-2011	Total Alkalinity	148		mg CaCO3/L	P415385	
	SM 2540 C-2011	TDS	375		mg/L	P415283	
	SM 2540 D-2011	TSS	3	I	mg/L	P414895	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P415390	
2331616	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P415381	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P415255	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P414943	
	EPA 365.1 Rev. 2.0	Total-P	0.033		mg P/L	P414863	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P414811	

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: Lake Wellington

Collection Date/Time: 06/02/2022 10:10

Field ID: G3SE0039

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331614	DEP SOP: NU-094-1	Color (true)**	31		PCU	P414726	
	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P414724	
	EPA 300.0 Rev. 2.1	Chloride	91		mg Cl/L	P415040	
		Sulfate	29		mg SO4/L	P415045	
	SM 2320 B-2011	Total Alkalinity	154		mg CaCO3/L	P415385	
	SM 2540 C-2011	TDS	382		mg/L	P415284	
	SM 2540 D-2011	TSS	3	I	mg/L	P414896	
	SM 4500-F- C-2011	Fluoride	0.15		mg F/L	P415390	
2331617	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P415381	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P415354	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P414943	
	EPA 365.1 Rev. 2.0	Total-P	0.033		mg P/L	P414863	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P414811	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low 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. Batch relative percent difference is unavailable because of analytical difficulties.

Sample Location: ACME (NORTH SECTOR) WEST POND

Collection Date/Time: 06/02/2022 10:40

Field ID: G3SE0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331615	DEP SOP: NU-094-1	Color (true)**	27		PCU	P414726	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P414724	
	EPA 300.0 Rev. 2.1	Chloride	80		mg Cl/L	P415040	
		Sulfate	24		mg SO4/L	P415045	
	SM 2320 B-2011	Total Alkalinity	137		mg CaCO3/L	P415385	
	SM 2540 C-2011	TDS	338	A	mg/L	P415284	
	SM 2540 D-2011	TSS	3	IA	mg/L	P414896	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P415390	
2331618	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P415381	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P415354	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P414943	
	EPA 365.1 Rev. 2.0	Total-P	0.029		mg P/L	P414863	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P414811	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low 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. Batch relative percent difference is unavailable because of analytical difficulties.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P414726

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414724

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415040

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415045

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415381

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415255

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415354

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414943

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414863

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P415385

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P415283

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P415284

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P414895

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P414896

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415390

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P414811

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: P414726

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414724

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415040

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415045

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415381

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415255

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415354

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414943

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414863

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P415385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P415390

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414811

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331662	Chloride	95.0		P	90 - 110
2331663	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331662	Sulfate	96.0		P	90 - 110
2331663	Sulfate	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331515	Ammonia-N	105	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415255

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331515	Kjeldahl Nitrogen	91.6	87.8	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331617	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414863

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331479	Total-P	103	102	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P415390

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331887	Fluoride	99.1	99.7	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414811

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331634	Organic Carbon	96.9	96.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P414726

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331629	Color (true)	0.391	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331630	Turbidity	2.03	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331662	Chloride	0.268	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331662	Sulfate	1.05	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331515	Ammonia-N	0.957	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415255

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331515	Kjeldahl Nitrogen	3.78	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331617	NO2NO3-N	0.985	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414863

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331479	Total-P	0.672	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P415385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331887	Total Alkalinity	0.396	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P415283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331510	TDS	2.15	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P415284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331615	TDS	0.0	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P415390

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331887	Fluoride	0.476	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P414811

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331634	Organic Carbon	0.140	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112604

Included Lab Sample IDs: 2331613, 2331614, 2331615

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

Reference Method: DEP SOP: NU-094-1

Run ID: A112605

Included Lab Sample IDs: 2331613, 2331614, 2331615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	85 - 115

Reference Method: SM 5310 B-2011

Run ID: A112642

Included Lab Sample IDs: 2331616, 2331617, 2331618

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	96.7	P/P	90 - 110
Organic Carbon	96.7	96.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A112696

Included Lab Sample IDs: 2331616, 2331617, 2331618

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A112707

Included Lab Sample IDs: 2331613, 2331614, 2331615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.4	100	P/P	90 - 110
Sulfate	99.7	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112732

Included Lab Sample IDs: 2331616, 2331617, 2331618

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.8	98.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112905

Included Lab Sample IDs: 2331616, 2331617, 2331618

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.9	99.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A112906

Included Lab Sample IDs: 2331613, 2331614, 2331615

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: A112906

Included Lab Sample IDs: 2331613, 2331614, 2331615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A112906

Included Lab Sample IDs: 2331613, 2331614, 2331615

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112942

Included Lab Sample IDs: 2331616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.3	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112973

Included Lab Sample IDs: 2331617, 2331618

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	108	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)	102			0.391	
EPA 180.1 Rev. 2.0	Turbidity	96.6			2.03	
EPA 300.0 Rev. 2.1	Chloride	97.6	95.0	97.9	0.268	
	Sulfate	97.2	96.0	97.8	1.05	
EPA 350.1 Rev. 2.0	Ammonia-N	101	105	104		0.957
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	91.6	87.8		3.78
	Kjeldahl Nitrogen	106				
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101	102		0.985
EPA 365.1 Rev. 2.0	Total-P	101	103	102		0.672
SM 2320 B-2011	Total Alkalinity	102			0.396	
SM 2540 C-2011	TDS				2.15	
	TDS				0.0	
SM 4500-F- C-2011	Fluoride	98.9	99.1	99.7		0.476
SM 5310 B-2011	Organic Carbon	93.2	96.9	96.7		0.140

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2331613, 2331614, 2331615
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2331613, 2331614, 2331615
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2331613, 2331614, 2331615
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2331613, 2331614, 2331615
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2331616, 2331617, 2331618
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2331616, 2331617, 2331618
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2331616, 2331617, 2331618
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2331616, 2331617, 2331618
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2331613, 2331614, 2331615
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2331613, 2331614, 2331615
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2331613, 2331614, 2331615
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2331613, 2331614, 2331615
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2331616, 2331617, 2331618

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	06/03/2022			06/03/2022 16:54	Anna M. Plaviak	2331613
	06/03/2022			06/03/2022 16:55	Anna M. Plaviak	2331614
	06/03/2022			06/03/2022 16:56	Anna M. Plaviak	2331615
EPA 180.1 Rev. 2.0	06/03/2022			06/03/2022 13:59	Khloe J Berg	2331613, 2331614
	06/03/2022			06/03/2022 14:02	Khloe J Berg	2331615
EPA 300.0 Rev. 2.1	06/03/2022			06/09/2022 16:45	Anna M. Plaviak	2331613
	06/03/2022			06/09/2022 16:57	Anna M. Plaviak	2331614
	06/03/2022			06/09/2022 17:10	Anna M. Plaviak	2331615
EPA 350.1 Rev. 2.0	06/03/2022			06/17/2022 15:49	Ping Hua	2331616
	06/03/2022			06/17/2022 15:51	Ping Hua	2331617
	06/03/2022			06/17/2022 15:52	Ping Hua	2331618
EPA 351.2 Rev. 2.0	06/03/2022	06/17/2022 11:47	Samantha L Bates	06/20/2022 14:53	Alexandra J Mattheus	2331616
	06/03/2022	06/20/2022 16:21	Samantha L Bates	06/21/2022 12:03	Alexandra J Mattheus	2331617
	06/03/2022	06/20/2022 16:21	Samantha L Bates	06/21/2022 12:04	Alexandra J Mattheus	2331618
EPA 353.2 Rev. 2.0	06/03/2022			06/07/2022 16:47	Touraj Touran	2331617
	06/03/2022			06/07/2022 16:55	Touraj Touran	2331616
	06/03/2022			06/07/2022 16:56	Touraj Touran	2331618
EPA 365.1 Rev. 2.0	06/03/2022	06/08/2022 15:25	Adam P Silver	06/09/2022 16:26	James L Waggeberby	2331616
	06/03/2022	06/08/2022 15:25	Adam P Silver	06/09/2022 16:27	James L Waggeberby	2331617
	06/03/2022	06/08/2022 15:25	Adam P Silver	06/09/2022 16:28	James L Waggeberby	2331618
SM 2320 B-2011	06/03/2022			06/16/2022 04:50	Dale L. Simmons	2331613
	06/03/2022			06/16/2022 05:04	Dale L. Simmons	2331614
	06/03/2022			06/16/2022 05:17	Dale L. Simmons	2331615
SM 2540 C-2011	06/03/2022			06/07/2022 14:33	Ping Hua	2331613, 2331614, 2331615
SM 2540 D-2011	06/03/2022			06/07/2022 14:32	Ping Hua	2331613, 2331614, 2331615
SM 4500-F- C-2011	06/03/2022			06/16/2022 04:50	Dale L. Simmons	2331613
	06/03/2022			06/16/2022 05:04	Dale L. Simmons	2331614
	06/03/2022			06/16/2022 05:17	Dale L. Simmons	2331615
SM 5310 B-2011	06/03/2022			06/06/2022 17:37	Khloe J Berg	2331617
	06/03/2022			06/06/2022 19:54	Khloe J Berg	2331616
	06/03/2022			06/06/2022 20:09	Khloe J Berg	2331618