

Chemical Analysis Report

SO-DIST-2019-03-12-02

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

Event Description: **Lee**
Request ID: **RQ-2019-03-18-26**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Gary Snorek

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Certified by: Colin Wright, Program Administrator

Date Certified: 27-MAR-2019 10:23

A handwritten signature in black ink, appearing to read "Colin Wright", 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: Drainage Ditch@CR850

Collection Date/Time: 03/11/2019 11:00

Field ID: G1SD0061

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2068954	EPA 180.1 Rev. 2.0	Turbidity	16		NTU	P360286	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P360616	
		Sulfate	26		mg SO4/L	P360618	
	SM 2120 B	Color (true)	46		PCU	P360327	
	SM 2320 B-97	Total Alkalinity	230		mg CaCO3/L	P360895	
	SM 2540 C-97	TDS	331		mg/L	P360683	
	SM 2540 D-97	TSS	19		mg/L	P360657	
	SM 4500 F-C-97	Fluoride	0.080	I	mg F/L	P360902	
2068956	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P360587	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P360468	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P360549	
	EPA 365.1 Rev. 2.0	Total-P	0.075		mg P/L	P360532	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P360635	
2068958	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P360315	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: C-139Annex@DeerFenceRd

Collection Date/Time: 03/11/2019 12:20

Field ID: G1SD0076

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2068955	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P360286	
	EPA 300.0 Rev. 2.1	Chloride	54		mg Cl/L	P360616	
		Sulfate	11		mg SO4/L	P360618	
	SM 2120 B	Color (true)	110		PCU	P360325	
	SM 2320 B-97	Total Alkalinity	201		mg CaCO3/L	P360895	
	SM 2540 C-97	TDS	346		mg/L	P360683	
	SM 2540 D-97	TSS	2	I	mg/L	P360657	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P360902	
2068957	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P360587	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P360468	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P360549	
	EPA 365.1 Rev. 2.0	Total-P	0.066		mg P/L	P360532	
	SM 5310 B-00	Organic Carbon	21		mg C/L	P360635	
2068959	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.021		mg P/L	P360315	

Ref. Method and Comment:

SM 2540 D-97: 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: P360286

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360616

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360618

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P360587

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P360468

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360549

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360532

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360315

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

Reference Method: SM 2120 B
Batch ID: P360325

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P360327

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P360895

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

Reference Method: SM 2540 C-97
Batch ID: P360683

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P360657

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P360902

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P360635

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: P360616

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360618

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P360587

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: P360468

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360549

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360532

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360315

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

Reference Method: SM 2120 B
Batch ID: P360325

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

Reference Method: SM 2120 B
Batch ID: P360327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	104		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P360895

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P360902

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.1		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P360635

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360616

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2068886	Chloride	99.3		P	90 - 110
2068980	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360618

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2068886	Sulfate	100		P	90 - 110
2068980	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P360587

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2068957	Ammonia-N	99.5	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P360468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2068931	Kjeldahl Nitrogen	108	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2068930	NO2NO3-N	99.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2068931	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360315

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2068958	O-Phosphate-P	93.0	94.0	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P360902

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069078	Fluoride	93.6	95.2	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P360635

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2068733	Organic Carbon	97.8	99.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P360286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068886	Turbidity	2.44	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068886	Chloride	0.406	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360618

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068886	Sulfate	0.289	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P360587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068957	Ammonia-N	0.461	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P360468

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068931	Kjeldahl Nitrogen	1.10	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068930	NO2NO3-N	0.707	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068931	Total-P	0.783	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360315

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068958	O-Phosphate-P	1.00	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P360325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068886	Color (true)	4.86	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P360327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068861	Color (true)	4.67	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P360895

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069078	Total Alkalinity	0.869	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P360683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068977	TDS	7.26	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P360902

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069078	Fluoride	1.47	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P360635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2068733	Organic Carbon	1.21	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A89962

Included Lab Sample IDs: 2068954, 2068955

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A89974

Included Lab Sample IDs: 2068958, 2068959

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	98.7	P/P	90 - 110
O-Phosphate-P	99.9	98.4	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A89978

Included Lab Sample IDs: 2068954, 2068955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	90 - 115
Color (true)	102	102	P/P	85 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A90029

Included Lab Sample IDs: 2068956, 2068957

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A90056

Included Lab Sample IDs: 2068956, 2068957

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A90063

Included Lab Sample IDs: 2068956, 2068957

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A90069

Included Lab Sample IDs: 2068956, 2068957

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	108	105	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A90071

Included Lab Sample IDs: 2068954, 2068955

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A90071

Included Lab Sample IDs: 2068954, 2068955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	98.3	P/P	90 - 110
Sulfate	102	99.2	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A90082

Included Lab Sample IDs: 2068956, 2068957

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	96.0	P/P	90 - 110
Organic Carbon	96.2	96.0	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A90183

Included Lab Sample IDs: 2068954, 2068955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.9	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A90183

Included Lab Sample IDs: 2068954, 2068955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	100	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					2.44	
EPA 300.0 Rev. 2.1	Chloride	100	99.3	100		0.406	
	Sulfate	102	100	101		0.289	
EPA 350.1 Rev. 2.0	Ammonia-N	101	99.5	99.0			0.461
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	108	106			1.10
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	99.2				0.707
EPA 365.1 Rev. 2.0	Total-P	102	102	103			0.783
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	93.0	94.0			1.00
SM 2120 B	Color (true)	103				4.86	
	Color (true)	104				4.67	
SM 2320 B-97	Total Alkalinity	101				0.869	
SM 2540 C-97	TDS					7.26	
SM 4500 F-C-97	Fluoride	98.1	93.6	95.2			1.47
SM 5310 B-00	Organic Carbon	97.6	97.8	99.1			1.21

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2068954, 2068955
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2068954, 2068955
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2068954, 2068955
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2068956, 2068957
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2068956, 2068957
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2068956, 2068957
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2068956, 2068957
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2068958, 2068959
SM 2120 B / E31780	True Color measured at 450 nm	2068954, 2068955
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2068954, 2068955
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2068954, 2068955
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2068954, 2068955
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2068954, 2068955
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2068956, 2068957

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	03/12/2019			03/12/2019 16:50	Adrian Shelby	2068954, 2068955
EPA 300.0 Rev. 2.1	03/12/2019			03/18/2019 22:39	Lipi Saha	2068954
	03/12/2019			03/18/2019 22:51	Lipi Saha	2068955
EPA 350.1 Rev. 2.0	03/12/2019			03/15/2019 12:46	Ping Hua	2068956
	03/12/2019			03/15/2019 12:48	Ping Hua	2068957
EPA 351.2 Rev. 2.0	03/12/2019	03/14/2019 12:17	Adrian Shelby	03/15/2019 16:01	Joseph Suarez	2068956
	03/12/2019	03/14/2019 12:17	Adrian Shelby	03/15/2019 16:03	Joseph Suarez	2068957
EPA 353.2 Rev. 2.0	03/12/2019			03/15/2019 09:14	Beverly Y. Sanders	2068956
	03/12/2019			03/15/2019 09:16	Beverly Y. Sanders	2068957
EPA 365.1 Rev. 2.0	03/12/2019	03/15/2019 14:20	Sima Feizi	03/18/2019 10:21	Beverly Y. Sanders	2068956
	03/12/2019	03/15/2019 14:20	Sima Feizi	03/18/2019 10:22	Beverly Y. Sanders	2068957
EPA 365.1 Rev. 2.0 dissolved	03/12/2019			03/12/2019 18:46	Jhamieka S. Greenwood	2068958
	03/12/2019			03/12/2019 18:57	Jhamieka S. Greenwood	2068959
SM 2120 B	03/12/2019			03/12/2019 16:08	Mariam Hanna	2068955
	03/12/2019			03/12/2019 16:29	Mariam Hanna	2068954
SM 2320 B-97	03/12/2019			03/21/2019 05:17	Dale L. Simmons	2068954
	03/12/2019			03/21/2019 05:31	Dale L. Simmons	2068955
SM 2540 C-97	03/12/2019			03/13/2019 14:03	Yijie Li	2068954, 2068955
SM 2540 D-97	03/12/2019			03/13/2019 14:03	Yijie Li	2068954, 2068955
SM 4500 F-C-97	03/12/2019			03/21/2019 05:17	Dale L. Simmons	2068954
	03/12/2019			03/21/2019 05:31	Dale L. Simmons	2068955
SM 5310 B-00	03/12/2019			03/19/2019 02:36	Julia Storbeck	2068956
	03/12/2019			03/19/2019 03:17	Julia Storbeck	2068957