

Chemical Analysis Report

CEN-DIST-2019-03-14-01

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

Event Description: **Sawgrass / 3 Forks**
Request ID: **RQ-2019-03-11-45**
Customer: **CEN-DIST**
Project ID: **SMP**

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

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: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 03-APR-2019 11:40



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: SJR at inlet to Little Lake Sawgrass

Collection Date/Time: 03/13/2019 12:43

Field ID: G3CE0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2069702	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P360453	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P361005	
		Sulfate	32		mg SO4/L	P361011	
		Color (true)	160		PCU	P360446	
	SM 2320 B-97	Total Alkalinity	82		mg CaCO3/L	P360897	
	SM 2540 C-97	TDS	384		mg/L	P360770	
	SM 2540 D-97	TSS	7	I	mg/L	P360631	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P360904	
2069704	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P360670	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P360711	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P360697	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P360603	
	SM 5310 B-00	Organic Carbon	25		mg C/L	P360838	
2069706	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.087		mg P/L	P360478	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-97: 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.

Sample Location: SJR upstream of Lake Hellen Blazes

Collection Date/Time: 03/13/2019 12:20

Field ID: G3CE0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2069703	EPA 180.1 Rev. 2.0	Turbidity	5.8		NTU	P360453	
	EPA 300.0 Rev. 2.1	Chloride	78		mg Cl/L	P361005	
		Sulfate	30		mg SO4/L	P361011	
		Color (true)	160		PCU	P360446	
	SM 2320 B-97	Total Alkalinity	97		mg CaCO3/L	P360897	
	SM 2540 C-97	TDS	337		mg/L	P360770	
	SM 2540 D-97	TSS	9	I	mg/L	P360631	
	SM 4500 F-C-97	Fluoride	0.18		mg F/L	P360904	
2069705	EPA 350.1 Rev. 2.0	Ammonia-N	0.067		mg N/L	P360670	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P360711	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P360697	
	EPA 365.1 Rev. 2.0	Total-P	0.26		mg P/L	P360603	
	SM 5310 B-00	Organic Carbon	27		mg C/L	P360838	
2069707	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.19		mg P/L	P360478	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-97: 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.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P360453

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361005

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361011

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P360670

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P360711

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360697

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360603

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360478

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

Reference Method: SM 2120 B
Batch ID: P360446

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P360897

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

Reference Method: SM 2540 C-97
Batch ID: P360770

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P360631

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P360904

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P360838

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: P361005

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361011

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: P360670

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P360711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360697

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360603

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: P360478

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

Reference Method: SM 2120 B
Batch ID: P360446

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

Reference Method: SM 2320 B-97
Batch ID: P360897

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P360904

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P360838

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069714	Chloride	94.9		P	90 - 110
2069732	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361011

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069714	Sulfate	97.4		P	90 - 110
2069732	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P360670

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069734	Ammonia-N	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069684	NO2NO3-N	95.7	98.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069666	Total-P	100	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360478

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069742	O-Phosphate-P	95.7	97.2	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P360904

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069509	Fluoride	96.7	96.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P360838

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069352	Organic Carbon	94.7	97.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P360453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069680	Turbidity	8.88	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069714	Chloride	0.663	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P360670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069734	Ammonia-N	0.0535	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P360711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069704	Kjeldahl Nitrogen	2.63	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360697

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069684	NO2NO3-N	2.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069666	Total-P	0.146	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360478

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069742	O-Phosphate-P	1.49	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P360446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069729	Color (true)	0.744	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P360897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069509	Total Alkalinity	0.102	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P360770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069681	TDS	0.643	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P360904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069509	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P360838

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2069352	Organic Carbon	1.83	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: SM 2120 B

Run ID: A90016

Included Lab Sample IDs: 2069702, 2069703

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A90017

Included Lab Sample IDs: 2069702, 2069703

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A90024

Included Lab Sample IDs: 2069706, 2069707

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.7	98.8	P/P	90 - 110
O-Phosphate-P	99.0	98.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A90071

Included Lab Sample IDs: 2069702, 2069703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	96.3	P/P	90 - 110
Sulfate	101	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A90092

Included Lab Sample IDs: 2069704, 2069705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A90097

Included Lab Sample IDs: 2069704, 2069705

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A90099

Included Lab Sample IDs: 2069704, 2069705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	95.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A90127

Included Lab Sample IDs: 2069704, 2069705

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A90127

Included Lab Sample IDs: 2069704, 2069705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.4	96.5	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A90156

Included Lab Sample IDs: 2069704, 2069705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	95.7	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A90183

Included Lab Sample IDs: 2069702, 2069703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A90183

Included Lab Sample IDs: 2069702, 2069703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	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					8.88	
EPA 300.0 Rev. 2.1	Chloride	99.7	94.9	101		0.663	
	Sulfate	99.9	97.4	100			
EPA 350.1 Rev. 2.0	Ammonia-N	99.4	102	102			0.0535
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107					2.63
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	97.5	95.7	98.7			2.05
EPA 365.1 Rev. 2.0	Total-P	102	100	99.8			0.146
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.4	95.7	97.2			1.49
SM 2120 B	Color (true)	102				0.744	
SM 2320 B-97	Total Alkalinity	102				0.102	
SM 2540 C-97	TDS					0.643	
SM 4500 F-C-97	Fluoride	99.0	96.7	96.7			0.0
SM 5310 B-00	Organic Carbon	99.2	94.7	97.4			1.83

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2069702, 2069703
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2069702, 2069703
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2069702, 2069703
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2069704, 2069705
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2069704, 2069705
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2069704, 2069705
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2069704, 2069705
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2069706, 2069707
SM 2120 B / E31780	True Color measured at 450 nm	2069702, 2069703
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2069702, 2069703
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2069702, 2069703
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2069702, 2069703
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2069702, 2069703
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2069704, 2069705

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	03/14/2019			03/14/2019 17:11	Adrian Shelby	2069702, 2069703
EPA 300.0 Rev. 2.1	03/14/2019			03/21/2019 16:29	Lipi Saha	2069702
	03/14/2019			03/21/2019 16:41	Lipi Saha	2069703
EPA 350.1 Rev. 2.0	03/14/2019			03/19/2019 10:07	Ping Hua	2069704
	03/14/2019			03/19/2019 10:09	Ping Hua	2069705
EPA 351.2 Rev. 2.0	03/14/2019	03/19/2019 12:25	Adrian Shelby	03/20/2019 09:44	Joseph Suarez	2069704
	03/14/2019	03/19/2019 12:25	Adrian Shelby	03/20/2019 09:49	Joseph Suarez	2069705
EPA 353.2 Rev. 2.0	03/14/2019			03/19/2019 13:42	Lauren Lees	2069704
	03/14/2019			03/19/2019 13:43	Lauren Lees	2069705
EPA 365.1 Rev. 2.0	03/14/2019	03/18/2019 14:30	Sima Feizi	03/19/2019 10:04	Beverly Y. Sanders	2069704
	03/14/2019	03/18/2019 14:30	Sima Feizi	03/19/2019 10:05	Beverly Y. Sanders	2069705
EPA 365.1 Rev. 2.0 dissolved	03/14/2019			03/14/2019 16:04	Jhamieka S. Greenwood	2069707
	03/14/2019			03/14/2019 16:29	Jhamieka S. Greenwood	2069706
SM 2120 B	03/14/2019			03/14/2019 16:47	Mariam Hanna	2069702
	03/14/2019			03/14/2019 16:48	Mariam Hanna	2069703
SM 2320 B-97	03/14/2019			03/21/2019 18:31	Dale L. Simmons	2069702
	03/14/2019			03/21/2019 18:44	Dale L. Simmons	2069703
SM 2540 C-97	03/14/2019			03/15/2019 17:15	Mariam Hanna	2069702, 2069703
SM 2540 D-97	03/14/2019			03/15/2019 17:15	Mariam Hanna	2069702, 2069703
SM 4500 F-C-97	03/14/2019			03/21/2019 18:31	Dale L. Simmons	2069702
	03/14/2019			03/21/2019 18:44	Dale L. Simmons	2069703
SM 5310 B-00	03/14/2019			03/20/2019 09:10	Julia Storbeck	2069704
	03/14/2019			03/20/2019 09:24	Julia Storbeck	2069705