

Chemical Analysis Report

SO-DIST-2019-07-19-01

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

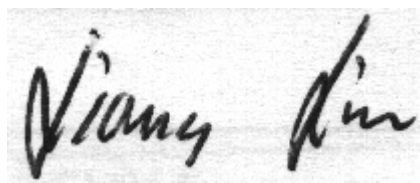
Event Description: **2019 SMP : Canals**
Request ID: **RQ-2019-07-15-29**
Customer: **SO-DIST**
Project ID: **SMP**

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

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 06-AUG-2019 16:05

A handwritten signature in black ink, appearing to read "Liang Lin", 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: NINE MILE CANAL

Collection Date/Time: 07/18/2019 10:45

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2104540	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P367643	
	EPA 300.0 Rev. 2.1	Chloride	43		mg Cl/L	P367756	
		Sulfate	39		mg SO4/L	P367758	
	SM 2120 B	Color (true)	67		PCU	P367620	
	SM 2320 B-97	Total Alkalinity	213		mg CaCO3/L	P367937	
	SM 2540 C-97	TDS	380		mg/L	P368115	
	SM 2540 D-97	TSS	5	I	mg/L	P367793	
	SM 4500 F-C-97	Fluoride	0.28		mg F/L	P367940	
2104542	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P368182	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P367891	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P367687	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P367740	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P367727	
2104544	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P367639	

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: LAKE HICPOCHEE

Collection Date/Time: 07/18/2019 11:30

Field ID: G3SD0102

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2104541	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P367643	
	EPA 300.0 Rev. 2.1	Chloride	53		mg Cl/L	P367756	
		Sulfate	28		mg SO4/L	P367758	
	SM 2120 B	Color (true)	110		PCU	P367620	
	SM 2320 B-97	Total Alkalinity	180		mg CaCO3/L	P367937	
	SM 2540 C-97	TDS	367		mg/L	P368115	
	SM 2540 D-97	TSS	7	I	mg/L	P367793	
	SM 4500 F-C-97	Fluoride	0.27		mg F/L	P367940	
2104543	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P368182	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P367891	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.046		mg N/L	P367687	
	EPA 365.1 Rev. 2.0	Total-P	0.098		mg P/L	P367740	
	SM 5310 B-00	Organic Carbon	22		mg C/L	P367727	
2104545	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.041		mg P/L	P367639	

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: P367643

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367756

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367758

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368182

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367891

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P367687

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367740

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P367639

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

Reference Method: SM 2120 B
Batch ID: P367620

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P367937

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

Reference Method: SM 2540 C-97
Batch ID: P368115

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P367793

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P367940

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P367727

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: P367756

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367758

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368182

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367891

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P367687

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: P367740

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: P367639

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

Reference Method: SM 2120 B
Batch ID: P367620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.7		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P367937

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P367940

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.1		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P367727

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367756

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2104548	Chloride	102		P	90 - 110
2104625	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367758

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2104548	Sulfate	102		P	90 - 110
2104625	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368182

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2104366	Ammonia-N	104	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2104520	Kjeldahl Nitrogen	101	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P367687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2104542	NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367740

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2104520	Total-P	102	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P367639

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2104522	O-Phosphate-P	97.1	98.9	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P367940

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2104532	Fluoride	97.4	98.1	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P367727

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2104551	Organic Carbon	99.5	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P367643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104616	Turbidity	0.191	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367756

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104548	Chloride	2.53	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367758

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104548	Sulfate	1.78	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368182

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104366	Ammonia-N	2.86	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104520	Kjeldahl Nitrogen	0.265	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P367687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104542	NO2NO3-N	0.610	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367740

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104520	Total-P	4.75	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P367639

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104522	O-Phosphate-P	1.84	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P367620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104548	Color (true)	3.45	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P367937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104532	Total Alkalinity	0.0177	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P368115

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104549	TDS	3.33	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P367940

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104532	Fluoride	0.509	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P367727

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2104551	Organic Carbon	0.636	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 365.1 Rev. 2.0 dissolved

Run ID: A92908

Included Lab Sample IDs: 2104544, 2104545

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.7	98.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A92909

Included Lab Sample IDs: 2104540, 2104541

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A92937

Included Lab Sample IDs: 2104542, 2104543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A92945

Included Lab Sample IDs: 2104542, 2104543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.8	98.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A92954

Included Lab Sample IDs: 2104540, 2104541

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A92978

Included Lab Sample IDs: 2104543

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A92981

Included Lab Sample IDs: 2104542

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

Reference Method: SM 2320 B-97

Run ID: A93033

Included Lab Sample IDs: 2104540, 2104541

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A93033

Included Lab Sample IDs: 2104540, 2104541

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: A93033

Included Lab Sample IDs: 2104540, 2104541

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A93054

Included Lab Sample IDs: 2104542, 2104543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	106	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A93145

Included Lab Sample IDs: 2104542, 2104543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	104	105	P/P	90 - 110
Ammonia-N	104	103	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					0.191	
EPA 300.0 Rev. 2.1	Chloride	102	102	102		2.53	
	Sulfate	103	102	103		1.78	
EPA 350.1 Rev. 2.0	Ammonia-N	104	104	101			2.86
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	101	100			0.265
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	100	99.5			0.610
EPA 365.1 Rev. 2.0	Total-P	102	102	107			4.75
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	97.1	98.9			1.84
SM 2120 B	Color (true)	99.7				3.45	
SM 2320 B-97	Total Alkalinity	103				0.0177	
SM 2540 C-97	TDS					3.33	
SM 4500 F-C-97	Fluoride	98.1	97.4	98.1			0.509
SM 5310 B-00	Organic Carbon	98.6	99.5	100			0.636

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2104540, 2104541
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2104540, 2104541
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2104540, 2104541
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2104542, 2104543
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2104542, 2104543
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2104542, 2104543
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2104542, 2104543
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2104544, 2104545
SM 2120 B / E31780	True Color measured at 450 nm	2104540, 2104541
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2104540, 2104541
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2104540, 2104541
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2104540, 2104541
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2104540, 2104541
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2104542, 2104543

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	07/19/2019			07/19/2019 17:01	Samantha Davila	2104540, 2104541
EPA 300.0 Rev. 2.1	07/19/2019			07/22/2019 22:07	Jhamieka S. Greenwood	2104540
	07/19/2019			07/22/2019 22:19	Jhamieka S. Greenwood	2104541
EPA 350.1 Rev. 2.0	07/19/2019			07/30/2019 17:06	Virginia P. Brown	2104543
	07/19/2019			07/30/2019 17:51	Virginia P. Brown	2104542
EPA 351.2 Rev. 2.0	07/19/2019	07/25/2019 12:00	Adrian Shelby	07/26/2019 10:09	Joseph Suarez	2104542
	07/19/2019	07/25/2019 12:00	Adrian Shelby	07/26/2019 10:11	Joseph Suarez	2104543
EPA 353.2 Rev. 2.0	07/19/2019			07/22/2019 10:42	Beverly Y. Sanders	2104542
	07/19/2019			07/22/2019 10:48	Beverly Y. Sanders	2104543
EPA 365.1 Rev. 2.0	07/19/2019	07/23/2019 11:20	Vijayalakshmi Reddy	07/24/2019 10:28	Lipi Saha	2104543
	07/19/2019	07/23/2019 11:20	Vijayalakshmi Reddy	07/24/2019 10:49	Lipi Saha	2104542
EPA 365.1 Rev. 2.0 dissolved	07/19/2019			07/19/2019 16:04	Jhamieka S. Greenwood	2104544
	07/19/2019			07/19/2019 16:05	Jhamieka S. Greenwood	2104545
SM 2120 B	07/19/2019			07/19/2019 14:21	Blanca Fach	2104540
	07/19/2019			07/19/2019 14:22	Blanca Fach	2104541
SM 2320 B-97	07/19/2019			07/24/2019 21:58	Dale L. Simmons	2104540
	07/19/2019			07/24/2019 22:57	Dale L. Simmons	2104541
SM 2540 C-97	07/19/2019			07/22/2019 15:00	Sima Feizi	2104540, 2104541
SM 2540 D-97	07/19/2019			07/22/2019 15:00	Sima Feizi	2104540, 2104541
SM 4500 F-C-97	07/19/2019			07/24/2019 21:58	Dale L. Simmons	2104540
	07/19/2019			07/24/2019 22:57	Dale L. Simmons	2104541
SM 5310 B-00	07/19/2019			07/23/2019 02:24	Madeline Funaro	2104542
	07/19/2019			07/23/2019 02:37	Madeline Funaro	2104543