

Chemical Analysis Report

TLH-ROC-2019-07-31-01

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

Event Description: **Run 9**
Request ID: **RQ-2019-07-22-21**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 15-AUG-2019 11:11

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: BAYOU GEORGE CREEK @ US231

Collection Date/Time: 07/31/2019 11:05

Field ID: G3TLHR0030

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2107653	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P368329	
	EPA 300.0 Rev. 2.1	Chloride	6.0		mg Cl/L	P368586	
		Sulfate	2.2		mg SO4/L	P368588	
	SM 2120 B	Color (true)	190		PCU	P368325	
	SM 2320 B-97	Total Alkalinity	26		mg CaCO3/L	P368837	
	SM 2540 C-97	TDS	77	A	mg/L	P368866	
	SM 2540 D-97	TSS	4	IA	mg/L	P368670	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P368840	
2107655	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P368808	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P368451	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.072		mg N/L	P368385	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P368389	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P368425	
2107657	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368254	

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: SANDY BRANCH @ SR22

Collection Date/Time: 07/31/2019 12:05

Field ID: G3TLHR0027

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2107654	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P368329	
	EPA 300.0 Rev. 2.1	Chloride	3.4		mg Cl/L	P368586	
		Sulfate	0.20	U	mg SO4/L	P368588	
	SM 2120 B	Color (true)	310		PCU	P368325	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P368837	
	SM 2540 C-97	TDS	54		mg/L	P368866	
	SM 2540 D-97	TSS	9	I	mg/L	P368670	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P368840	
2107656	EPA 350.1 Rev. 2.0	Ammonia-N	0.41		mg N/L	P368808	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P368451	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P368385	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P368389	
	SM 5310 B-00	Organic Carbon	30		mg C/L	P368425	
2107658	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368254	

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: P368329

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368586

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368588

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368808

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368451

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368385

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368389

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368254

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

Reference Method: SM 2120 B
Batch ID: P368325

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P368837

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

Reference Method: SM 2540 C-97
Batch ID: P368866

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P368670

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P368840

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P368425

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: P368586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	95.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368588

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368808

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368451

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368385

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: P368389

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368254

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

Reference Method: SM 2120 B
Batch ID: P368325

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

Reference Method: SM 2320 B-97
Batch ID: P368837

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P368840

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P368425

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P368586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107367	Chloride	97.1		P	90 - 110
2107744	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P368588

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107367	Sulfate	102		P	90 - 110
2107744	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P368808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107734	Ammonia-N	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P368451

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107771	Kjeldahl Nitrogen	98.6	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P368385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107734	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P368389

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107734	Total-P	97.3	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P368254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107353	O-Phosphate-P	96.4	97.2	P/P	90 - 110

Reference Method: SM 4500 F-C-97
 Batch ID: P368840

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107744	Fluoride	97.1	97.1	P/P	89 - 106

Reference Method: SM 5310 B-00
 Batch ID: P368425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107868	Organic Carbon	99.3	99.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P368329

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107767	Turbidity	1.92	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107367	Chloride	1.01	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368588

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107367	Sulfate	0.262	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368808

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107734	Ammonia-N	0.786	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107771	Kjeldahl Nitrogen	3.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107734	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107734	Total-P	1.78	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107353	O-Phosphate-P	0.715	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
 Batch ID: P368325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107770	Color (true)	0.884	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P368837

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107744	Total Alkalinity	0.315	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
 Batch ID: P368866

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107653	TDS	5.19	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P368840

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107744	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
 Batch ID: P368425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107868	Organic Carbon	0.258	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: A93174

Included Lab Sample IDs: 2107657, 2107658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.9	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A93205

Included Lab Sample IDs: 2107653, 2107654

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	105	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A93206

Included Lab Sample IDs: 2107653, 2107654

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: A93231

Included Lab Sample IDs: 2107655, 2107656

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

Reference Method: SM 5310 B-00

Run ID: A93248

Included Lab Sample IDs: 2107655, 2107656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.8	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A93263

Included Lab Sample IDs: 2107655, 2107656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A93320

Included Lab Sample IDs: 2107655, 2107656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	108	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A93324

Included Lab Sample IDs: 2107653, 2107654

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.5	97.8	P/P	90 - 110
Sulfate	101	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A93406

Included Lab Sample IDs: 2107655, 2107656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	101	P/P	90 - 110
Ammonia-N	98.9	98.1	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A93419

Included Lab Sample IDs: 2107653, 2107654

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A93419

Included Lab Sample IDs: 2107653, 2107654

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	98.1	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					1.92	
EPA 300.0 Rev. 2.1	Chloride	95.9	97.1	98.2		1.01	
	Sulfate	100	102	102		0.262	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	102	102			0.786
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	98.6	105			3.33
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	100	100			0.0
EPA 365.1 Rev. 2.0	Total-P	104	97.3	99.2			1.78
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.9	96.4	97.2			0.715
SM 2120 B	Color (true)	103				0.884	
SM 2320 B-97	Total Alkalinity	104				0.315	
SM 2540 C-97	TDS					5.19	
SM 4500 F-C-97	Fluoride	97.5	97.1	97.1			0.0
SM 5310 B-00	Organic Carbon	99.4	99.3	99.6			0.258

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2107653, 2107654
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2107653, 2107654
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2107653, 2107654
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2107655, 2107656
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2107655, 2107656
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2107655, 2107656
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2107655, 2107656
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2107657, 2107658
SM 2120 B / E31780	True Color measured at 450 nm	2107653, 2107654
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2107653, 2107654
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2107653, 2107654
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2107653, 2107654
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2107653, 2107654
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2107655, 2107656

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	07/31/2019			08/01/2019 16:42	Adrian Shelby	2107653, 2107654
EPA 300.0 Rev. 2.1	07/31/2019			08/06/2019 17:52	Jhamieka S. Greenwood	2107653
	07/31/2019			08/06/2019 18:04	Jhamieka S. Greenwood	2107654
EPA 350.1 Rev. 2.0	07/31/2019			08/10/2019 13:53	Ping Hua	2107655
	07/31/2019			08/10/2019 14:41	Ping Hua	2107656
EPA 351.2 Rev. 2.0	07/31/2019	08/05/2019 13:30	Adrian Shelby	08/07/2019 08:47	Joseph Suarez	2107655
	07/31/2019	08/05/2019 13:30	Adrian Shelby	08/07/2019 08:48	Joseph Suarez	2107656
EPA 353.2 Rev. 2.0	07/31/2019			08/02/2019 12:24	Beverly Y. Sanders	2107655
	07/31/2019			08/02/2019 12:26	Beverly Y. Sanders	2107656
EPA 365.1 Rev. 2.0	07/31/2019	08/02/2019 12:14	Vijayalakshmi Reddy	08/05/2019 12:23	Lipi Saha	2107655
	07/31/2019	08/02/2019 12:14	Vijayalakshmi Reddy	08/05/2019 12:24	Lipi Saha	2107656
EPA 365.1 Rev. 2.0 dissolved	07/31/2019			07/31/2019 17:08	Jhamieka S. Greenwood	2107657
	07/31/2019			07/31/2019 17:09	Jhamieka S. Greenwood	2107658
SM 2120 B	07/31/2019			08/01/2019 16:08	Madeline Funaro	2107653
	07/31/2019			08/01/2019 16:09	Madeline Funaro	2107654
SM 2320 B-97	07/31/2019			08/09/2019 01:09	Dale L. Simmons	2107653
	07/31/2019			08/09/2019 01:19	Dale L. Simmons	2107654
SM 2540 C-97	07/31/2019			08/07/2019 10:40	Blanca Fach	2107653
	07/31/2019			08/07/2019 11:15	Blanca Fach	2107654
SM 2540 D-97	07/31/2019			08/07/2019 10:40	Blanca Fach	2107653
	07/31/2019			08/07/2019 11:15	Blanca Fach	2107654
SM 4500 F-C-97	07/31/2019			08/09/2019 01:09	Dale L. Simmons	2107653
	07/31/2019			08/09/2019 01:19	Dale L. Simmons	2107654
SM 5310 B-00	07/31/2019			08/02/2019 16:42	Madeline Funaro	2107655
	07/31/2019			08/02/2019 16:57	Madeline Funaro	2107656