

Chemical Analysis Report

CEN-DIST-2020-01-31-01

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

Event Description: **Blanket Bay X2**
Request ID: **RQ-2020-01-27-42**
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: Michael 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: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 20-FEB-2020 10:19

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the top of the "T".

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: Blanket Bay Slough @ SR 60

Collection Date/Time: 01/30/2020 10:37

Field ID: G4CE0180

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2153531	EPA 180.1 Rev. 2.0	Turbidity	6.7		NTU	P378102	
	EPA 300.0 Rev. 2.1	Chloride	47		mg Cl/L	P378303	
		Sulfate	4.4		mg SO4/L	P378306	
	SM 2120 B-2011	Color (true)	270		PCU	P378111	
	SM 2320 B-2011	Total Alkalinity	58		mg CaCO3/L	P378420	
	SM 2540 C-2011	TDS	212		mg/L	P378767	
	SM 2540 D-2011	TSS	6	I	mg/L	P378580	
	SM 4500 F-C-2011	Fluoride	0.16		mg F/L	P378424	
2153532	EPA 350.1 Rev. 2.0	Ammonia-N	0.21		mg N/L	P378603	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P378412	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.20		mg N/L	P378480	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P378256	
	SM 5310 B-2011	Organic Carbon	30		mg C/L	P378474	
2153533	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.19		mg P/L	P378117	

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: Blanket Bay Slough @ 0.9 mi Upstream of Kissimmee River

Collection Date/Time: 01/30/2020 11:34

Field ID: G4CE0179

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2153528	EPA 180.1 Rev. 2.0	Turbidity	18	A	NTU	P378102	
	EPA 300.0 Rev. 2.1	Chloride	34		mg Cl/L	P378303	
		Sulfate	4.9		mg SO4/L	P378306	
	SM 2120 B-2011	Color (true)	170	A	PCU	P378113	
	SM 2320 B-2011	Total Alkalinity	88		mg CaCO3/L	P378420	
	SM 2540 C-2011	TDS	215		mg/L	P378766	
	SM 2540 D-2011	TSS	28		mg/L	P378579	
	SM 4500 F-C-2011	Fluoride	0.15		mg F/L	P378424	
2153529	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P378603	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P378412	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.032		mg N/L	P378480	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P378256	
	SM 5310 B-2011	Organic Carbon	26		mg C/L	P378474	
2153530	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.096		mg P/L	P378117	

Ref. Method and Comment:

SM 2540 D-2011: 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: P378102

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378303

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378306

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378603

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378412

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378480

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378256

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P378117

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

Reference Method: SM 2120 B-2011
Batch ID: P378111

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P378113

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P378420

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

Reference Method: SM 2540 C-2011
Batch ID: P378766

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P378767

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P378579

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P378580

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P378424

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P378474

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: P378303

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378306

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378603

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378412

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: P378480

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378256

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: P378117

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

Reference Method: SM 2120 B-2011
Batch ID: P378111

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

Reference Method: SM 2120 B-2011
Batch ID: P378113

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-2011
Batch ID: P378420

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

Reference Method: SM 4500 F-C-2011
Batch ID: P378424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.5		P	92 - 103

Reference Method: SM 5310 B-2011
Batch ID: P378474

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378303

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2153485	Chloride	101		P	90 - 110
2153557	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2153485	Sulfate	102		P	90 - 110
2153557	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2153404	Ammonia-N	97.5	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2153486	Kjeldahl Nitrogen	107	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378480

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2153492	NO2NO3-N	97.0	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378256

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2153492	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P378117

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2153415	O-Phosphate-P	91.9	95.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P378424

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2153388	Fluoride	98.1	98.8	P/P	89 - 106

Reference Method: SM 5310 B-2011
Batch ID: P378474

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2153486	Organic Carbon	101	101	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P378102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153528	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378303

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153557	Chloride	0.999	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153557	Sulfate	0.778	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153404	Ammonia-N	2.02	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153486	Kjeldahl Nitrogen	0.637	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153492	NO2NO3-N	0.775	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378256

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153492	Total-P	1.29	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P378117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153415	O-Phosphate-P	2.09	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
 Batch ID: P378111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153548	Color (true)	2.07	Sample	P	0 - 20

Reference Method: SM 2120 B-2011
 Batch ID: P378113

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153528	Color (true)	0.190	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P378420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153388	Total Alkalinity	0.0905	Sample	P	0 - 2.8

Reference Method: SM 2540 C-2011
 Batch ID: P378766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153392	TDS	2.18	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
 Batch ID: P378767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153554	TDS	4.12	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P378424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153388	Fluoride	0.470	Spike	P	0 - 2.5

Reference Method: SM 5310 B-2011
 Batch ID: P378474

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2153486	Organic Carbon	0.130	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: A97257

Included Lab Sample IDs: 2153528, 2153531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A97258

Included Lab Sample IDs: 2153528, 2153531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 115
Color (true)	101	102	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A97259

Included Lab Sample IDs: 2153530, 2153533

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A97327

Included Lab Sample IDs: 2153528, 2153531

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

Reference Method: SM 2320 B-2011

Run ID: A97356

Included Lab Sample IDs: 2153528, 2153531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A97356

Included Lab Sample IDs: 2153528, 2153531

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

Reference Method: SM 5310 B-2011

Run ID: A97368

Included Lab Sample IDs: 2153529, 2153532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A97369

Included Lab Sample IDs: 2153529, 2153532

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A97379

Included Lab Sample IDs: 2153529, 2153532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A97415

Included Lab Sample IDs: 2153529, 2153532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A97416

Included Lab Sample IDs: 2153529, 2153532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	100	P/P	90 - 110
Ammonia-N	101	101	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
EPA 180.1 Rev. 2.0	Turbidity				0.0	
EPA 300.0 Rev. 2.1	Chloride	103	101	101	0.999	
	Sulfate	103	99.7	102	0.778	
EPA 350.1 Rev. 2.0	Ammonia-N	99.1	97.5	99.8		2.02
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	107	107		0.637
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.0	97.0	98.0		0.775
EPA 365.1 Rev. 2.0	Total-P	104	103	104		1.29
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	91.9	95.1		2.09
SM 2120 B-2011	Color (true)	101			2.07	
	Color (true)	104			0.190	
SM 2320 B-2011	Total Alkalinity	103			0.0905	
SM 2540 C-2011	TDS				2.18	
	TDS				4.12	
SM 4500 F-C-2011	Fluoride	98.5	98.1	98.8		0.470
SM 5310 B-2011	Organic Carbon	99.8	101	101		0.130

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2153528, 2153531
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2153528, 2153531
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2153528, 2153531
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2153529, 2153532
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2153529, 2153532
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2153529, 2153532
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2153529, 2153532
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2153530, 2153533
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2153528, 2153531
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2153528, 2153531
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2153528, 2153531
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2153528, 2153531
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2153528, 2153531
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2153529, 2153532

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	01/31/2020			01/31/2020 16:16	Yen Ta	2153528, 2153531
EPA 300.0 Rev. 2.1	01/31/2020			02/04/2020 07:28	Elliott Rodriguez	2153528
	01/31/2020			02/04/2020 08:04	Elliott Rodriguez	2153531
EPA 350.1 Rev. 2.0	01/31/2020			02/10/2020 10:42	Ping Hua	2153529
	01/31/2020			02/10/2020 12:56	Ping Hua	2153532
EPA 351.2 Rev. 2.0	01/31/2020	02/06/2020 12:00	Jhamieka S. Greenwood	02/07/2020 10:12	Jhamieka S. Greenwood	2153529
	01/31/2020	02/06/2020 12:00	Jhamieka S. Greenwood	02/07/2020 10:14	Jhamieka S. Greenwood	2153532
EPA 353.2 Rev. 2.0	01/31/2020			02/06/2020 11:52	Beverly Y. Sanders	2153529
	01/31/2020			02/06/2020 11:53	Beverly Y. Sanders	2153532
EPA 365.1 Rev. 2.0	01/31/2020	02/04/2020 12:34	Yen Ta	02/05/2020 17:59	Benjamin T. Nordmann	2153529
	01/31/2020	02/04/2020 12:34	Yen Ta	02/05/2020 18:00	Benjamin T. Nordmann	2153532
EPA 365.1 Rev. 2.0 dissolved	01/31/2020			01/31/2020 16:44	Carlos Miranda	2153530
	01/31/2020			01/31/2020 16:45	Carlos Miranda	2153533
SM 2120 B-2011	01/31/2020			01/31/2020 17:09	Madeline Funaro	2153531
	01/31/2020			01/31/2020 17:14	Madeline Funaro	2153528
SM 2320 B-2011	01/31/2020			02/05/2020 10:32	Dale L. Simmons	2153528
	01/31/2020			02/05/2020 10:44	Dale L. Simmons	2153531
SM 2540 C-2011	01/31/2020			02/04/2020 15:55	Sima Feizi	2153528, 2153531
SM 2540 D-2011	01/31/2020			02/04/2020 15:55	Sima Feizi	2153528, 2153531
SM 4500 F-C-2011	01/31/2020			02/05/2020 10:32	Dale L. Simmons	2153528
	01/31/2020			02/05/2020 10:44	Dale L. Simmons	2153531
SM 5310 B-2011	01/31/2020			02/06/2020 08:25	Madeline Funaro	2153529
	01/31/2020			02/06/2020 08:37	Madeline Funaro	2153532