

Chemical Analysis Report

CEN-DIST-2020-02-18-01

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-2020-02-24-37**
Customer: **CEN-DIST**
Project ID: **TMDL**

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: 11-MAR-2020 07:39

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

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: 02/17/2020 12:13

Field ID: G4CE0180

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2158699	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P379139	
	EPA 300.0 Rev. 2.1	Chloride	42		mg Cl/L	P379718	
		Sulfate	3.2		mg SO4/L	P379721	
		Color (true)	210		PCU	P379208	
	SM 2320 B-2011	Total Alkalinity	55		mg CaCO3/L	P379416	
	SM 2540 C-2011	TDS	175		mg/L	P379821	
	SM 2540 D-2011	TSS	12		mg/L	P379601	
	SM 4500 F-C-2011	Fluoride	0.18		mg F/L	P379421	
2158700	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P379563	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P379316	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.072		mg N/L	P379609	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P379778	
	SM 5310 B-2011	Organic Carbon	28		mg C/L	P379431	
2158701	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.11		mg P/L	P379146	

Sample Location: Blanket Bay Slough @ 0.9mi. Upstream of Kissimmee River

Collection Date/Time: 02/17/2020 12:56

Field ID: G4CE0179

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2158696	EPA 180.1 Rev. 2.0	Turbidity	11	A	NTU	P379139	
	EPA 300.0 Rev. 2.1	Chloride	34		mg Cl/L	P379718	
		Sulfate	3.1		mg SO4/L	P379721	
	SM 2120 B-2011	Color (true)	180		PCU	P379208	
	SM 2320 B-2011	Total Alkalinity	73		mg CaCO3/L	P379416	
	SM 2540 C-2011	TDS	178		mg/L	P379821	
	SM 2540 D-2011	TSS	8	I	mg/L	P379601	
	SM 4500 F-C-2011	Fluoride	0.15		mg F/L	P379421	
2158697	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P379462	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P379316	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P379609	
	EPA 365.1 Rev. 2.0	Total-P	0.21		mg P/L	P379778	
	SM 5310 B-2011	Organic Carbon	24		mg C/L	P379431	
2158698	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.095		mg P/L	P379146	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P379139

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379718

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379721

Component	Result	Code	Units
Sulfate	0.20	U	mg SO ₄ /L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379462

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379563

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P379316

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P379609

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P379778

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P379146

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P379208

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P379416

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

Reference Method: SM 2540 C-2011
Batch ID: P379821

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P379601

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P379421

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P379431

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: P379718

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379721

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379462

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379563

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P379316

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P379609

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P379778

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P379146

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.2		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P379208

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P379416

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

Reference Method: SM 4500 F-C-2011
Batch ID: P379421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	92 - 103

Reference Method: SM 5310 B-2011
Batch ID: P379431

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379718

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158479	Chloride	99.6		P	90 - 110
2158532	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379721

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158479	Sulfate	96.8		P	90 - 110
2158532	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158911	Ammonia-N	97.7	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379563

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158744	Ammonia-N	101	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P379316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158744	Kjeldahl Nitrogen	107	110	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P379609

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158651	NO2NO3-N	96.6	97.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P379778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158697	Total-P	108	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P379146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158698	O-Phosphate-P	92.0	92.8	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P379421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158297	Fluoride	98.8	99.3	P/P	89 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P379431

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158941	Organic Carbon	95.5	95.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P379139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158696	Turbidity	0.881	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379718

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158479	Chloride	0.696	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158479	Sulfate	1.03	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158911	Ammonia-N	1.27	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158744	Ammonia-N	2.77	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P379316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158744	Kjeldahl Nitrogen	1.94	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P379609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158651	NO2NO3-N	0.800	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P379778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158697	Total-P	0.830	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P379146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158698	O-Phosphate-P	0.427	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
 Batch ID: P379208

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158529	Color (true)	0.993	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P379416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158297	Total Alkalinity	0.288	Sample	P	0 - 2.8

Reference Method: SM 2540 C-2011
 Batch ID: P379821

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158521	TDS	1.87	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
 Batch ID: P379601

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158521	TSS	8.00	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P379421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158297	Fluoride	0.477	Spike	P	0 - 2.5

Reference Method: SM 5310 B-2011
 Batch ID: P379431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158941	Organic Carbon	0.318	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: A97621

Included Lab Sample IDs: 2158696, 2158699

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A97622

Included Lab Sample IDs: 2158698, 2158701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	95.3	93.0	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A97655

Included Lab Sample IDs: 2158696, 2158699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	90 - 115

Reference Method: SM 2320 B-2011

Run ID: A97739

Included Lab Sample IDs: 2158696, 2158699

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

Reference Method: SM 4500 F-C-2011

Run ID: A97739

Included Lab Sample IDs: 2158696, 2158699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	100	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A97742

Included Lab Sample IDs: 2158697, 2158700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.3	99.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A97754

Included Lab Sample IDs: 2158697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	95.9	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A97759

Included Lab Sample IDs: 2158697, 2158700

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A97771

Included Lab Sample IDs: 2158696, 2158699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.3	98.5	P/P	90 - 110
Sulfate	98.7	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A97783

Included Lab Sample IDs: 2158697, 2158700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A97793

Included Lab Sample IDs: 2158700

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A97880

Included Lab Sample IDs: 2158697, 2158700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	104	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					0.881	
EPA 300.0 Rev. 2.1	Chloride	96.7	99.6	102		0.696	
	Sulfate	97.9	96.8	101		1.03	
EPA 350.1 Rev. 2.0	Ammonia-N	93.1	97.7	99.5			1.27
	Ammonia-N	97.9	101	104			2.77
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	107	110			1.94
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	96.6	97.6			0.800
EPA 365.1 Rev. 2.0	Total-P	103	108	107			0.830
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.2	92.0	92.8			0.427
SM 2120 B-2011	Color (true)	101				0.993	
SM 2320 B-2011	Total Alkalinity	104				0.288	
SM 2540 C-2011	TDS					1.87	
SM 2540 D-2011	TSS					8.00	
SM 4500 F-C-2011	Fluoride	99.0	98.8	99.3			0.477
SM 5310 B-2011	Organic Carbon	96.2	95.5	95.0			0.318

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2158696, 2158699
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2158696, 2158699
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2158696, 2158699
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2158697, 2158700
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2158697, 2158700
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2158697, 2158700
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2158697, 2158700
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2158698, 2158701
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2158696, 2158699
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2158696, 2158699
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2158696, 2158699
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2158696, 2158699
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2158696, 2158699
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2158697, 2158700

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	02/18/2020			02/18/2020 16:35	Yen Ta	2158696, 2158699
EPA 300.0 Rev. 2.1	02/18/2020			02/26/2020 17:11	Elliott Rodriguez	2158696
	02/18/2020			02/26/2020 17:23	Elliott Rodriguez	2158699
EPA 350.1 Rev. 2.0	02/18/2020			02/21/2020 12:49	Ping Hua	2158697
	02/18/2020			02/24/2020 12:34	Ping Hua	2158700
EPA 351.2 Rev. 2.0	02/18/2020	02/21/2020 09:20	Sima Feizi	02/24/2020 11:27	Jhamieka S. Greenwood	2158697
	02/18/2020	02/21/2020 09:20	Sima Feizi	02/24/2020 11:29	Jhamieka S. Greenwood	2158700
EPA 353.2 Rev. 2.0	02/18/2020			02/25/2020 09:16	Beverly Y. Sanders	2158697
	02/18/2020			02/25/2020 09:17	Beverly Y. Sanders	2158700
EPA 365.1 Rev. 2.0	02/18/2020	02/27/2020 13:38	Yen Ta	02/28/2020 10:14	Lipi Saha	2158697
	02/18/2020	02/27/2020 13:38	Yen Ta	02/28/2020 10:18	Lipi Saha	2158700
EPA 365.1 Rev. 2.0 dissolved	02/18/2020			02/18/2020 16:53	Carlos Miranda	2158698
	02/18/2020			02/18/2020 16:57	Carlos Miranda	2158701
SM 2120 B-2011	02/18/2020			02/18/2020 18:05	Madeline Funaro	2158696, 2158699
SM 2320 B-2011	02/18/2020			02/22/2020 22:01	Dale L. Simmons	2158696
	02/18/2020			02/22/2020 22:14	Dale L. Simmons	2158699
SM 2540 C-2011	02/18/2020			02/21/2020 15:21	Yijie Li	2158696, 2158699
SM 2540 D-2011	02/18/2020			02/21/2020 15:21	Yijie Li	2158696, 2158699
SM 4500 F-C-2011	02/18/2020			02/22/2020 22:01	Dale L. Simmons	2158696
	02/18/2020			02/22/2020 22:14	Dale L. Simmons	2158699
SM 5310 B-2011	02/18/2020			02/21/2020 18:55	Madeline Funaro	2158697
	02/18/2020			02/21/2020 19:08	Madeline Funaro	2158700