

Chemical Analysis Report

CEN-DIST-2020-08-07-02

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

Event Description: **Faulk/Florence**
Request ID: **RQ-2020-08-03-62**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 27-AUG-2020 12:47

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: Faulk Canal @ 50m Upstream of Fiske Blvd

Collection Date/Time: 08/06/2020 12:15

Field ID: G3CE0016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2189172	EPA 180.1 Rev. 2.0	Turbidity	4.3	A	NTU	P385793	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P385892	
		Sulfate	36		mg SO4/L	P385897	
	SM 2120 B-2011	Color (true)	79	A	PCU	P385796	
	SM 2320 B-2011	Total Alkalinity	63		mg CaCO3/L	P385856	RPD
	SM 2540 C-2011	TDS	412	A	mg/L	P386179	
	SM 2540 D-2011	TSS	8	IA	mg/L	P386220	
	SM 4500 F-C-2011	Fluoride	0.063	I	mg F/L	P385858	
2189173	EPA 350.1 Rev. 2.0	Ammonia-N	0.20		mg N/L	P386081	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P385978	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.071		mg N/L	P385822	
	EPA 365.1 Rev. 2.0	Total-P	0.090		mg P/L	P385870	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P385884	
2189174	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P385789	

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: Florence Lake @ Center

Collection Date/Time: 08/06/2020 11:27

Field ID: G3CE0012

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2189175	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P385793	
	EPA 300.0 Rev. 2.1	Chloride	160		mg Cl/L	P385892	
		Sulfate	50		mg SO4/L	P385897	
	SM 2120 B-2011	Color (true)	290		PCU	P385796	
	SM 2320 B-2011	Total Alkalinity	61		mg CaCO3/L	P385856	RPD
	SM 2540 C-2011	TDS	467		mg/L	P386179	
	SM 2540 D-2011	TSS	6	I	mg/L	P386220	
	SM 4500 F-C-2011	Fluoride	0.093	I	mg F/L	P385858	
2189176	EPA 350.1 Rev. 2.0	Ammonia-N	0.071		mg N/L	P386081	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P385978	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.024		mg N/L	P385822	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P385870	
	SM 5310 B-2011	Organic Carbon	28		mg C/L	P385884	
2189177	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.063		mg P/L	P385789	

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: P385793

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385892

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385897

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386081

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385978

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385822

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385870

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385789

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

Reference Method: SM 2120 B-2011
Batch ID: P385796

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P385856

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

Reference Method: SM 2540 C-2011
Batch ID: P386179

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P386220

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P385858

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P385884

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: P385892

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385897

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386081

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385978

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: P385822

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: P385870

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: P385789

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

Reference Method: SM 2120 B-2011
Batch ID: P385796

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

Reference Method: SM 2320 B-2011
Batch ID: P385856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	93 - 104

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P385858

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P385884

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	102		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385892

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189197	Chloride	104		P	90 - 110
2189215	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189197	Sulfate	106		P	90 - 110
2189215	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189217	Ammonia-N	98.2	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385978

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189164	Kjeldahl Nitrogen	108	110	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385822

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189156	NO2NO3-N	90.5	91.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385870

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189155	Total-P	104	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189174	O-Phosphate-P	94.3	95.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P385858

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189203	Fluoride	98.8	98.8	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P385884

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189164	Organic Carbon	100	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P385793

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189172	Turbidity	2.54	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P385892

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189197	Chloride	0.647	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P385897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189197	Sulfate	1.91	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P386081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189217	Ammonia-N	0.927	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P385978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189164	Kjeldahl Nitrogen	1.04	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P385822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189156	NO2NO3-N	0.525	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P385870

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189155	Total-P	2.18	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P385789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189174	O-Phosphate-P	0.828	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P385796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189172	Color (true)	0.537	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P385856

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189203	Total Alkalinity	9.81	Sample	F	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P386179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189172	TDS	2.67	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P385858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189203	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P385884

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189164	Organic Carbon	1.72	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A100348

Included Lab Sample IDs: 2189174, 2189177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.4	98.0	P/P	90 - 110
O-Phosphate-P	98.0	97.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A100349

Included Lab Sample IDs: 2189172, 2189175

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	101	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A100351

Included Lab Sample IDs: 2189172, 2189175

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	104	P/P	90 - 115
Color (true)	105	104	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A100367

Included Lab Sample IDs: 2189173, 2189176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	99.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A100379

Included Lab Sample IDs: 2189172, 2189175

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.6	99.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A100379

Included Lab Sample IDs: 2189172, 2189175

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

Reference Method: SM 5310 B-2011

Run ID: A100385

Included Lab Sample IDs: 2189173, 2189176

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A100386

Included Lab Sample IDs: 2189172, 2189175

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A100386

Included Lab Sample IDs: 2189172, 2189175

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	104	P/P	90 - 110
Sulfate	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100415

Included Lab Sample IDs: 2189173, 2189176

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A100463

Included Lab Sample IDs: 2189173, 2189176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.6	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A100478

Included Lab Sample IDs: 2189173, 2189176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	98.6	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					2.54	
EPA 300.0 Rev. 2.1	Chloride	103	104	106		0.647	
	Sulfate	104	106	105		1.91	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	98.2	99.2			0.927
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	108	110			1.04
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	97.5	90.5	91.0			0.525
EPA 365.1 Rev. 2.0	Total-P	103	104	107			2.18
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	94.3	95.2			0.828
SM 2120 B-2011	Color (true)	102				0.537	
SM 2320 B-2011	Total Alkalinity	102				9.81	
SM 2540 C-2011	TDS					2.67	
SM 4500 F-C-2011	Fluoride	100	98.8	98.8			0.0
SM 5310 B-2011	Organic Carbon	102	100	102			1.72

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2189172, 2189175
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2189172, 2189175
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2189172, 2189175
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2189173, 2189176
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2189173, 2189176
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2189173, 2189176
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2189173, 2189176
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2189174, 2189177
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2189172, 2189175
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2189172, 2189175
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2189172, 2189175
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2189172, 2189175
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2189172, 2189175
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2189173, 2189176

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	08/07/2020			08/07/2020 15:13	Blanca Fach	2189172, 2189175
EPA 300.0 Rev. 2.1	08/07/2020			08/09/2020 01:27	Julia Storbeck	2189172
	08/07/2020			08/09/2020 01:39	Julia Storbeck	2189175
EPA 350.1 Rev. 2.0	08/07/2020			08/15/2020 15:02	Ping Hua	2189176
	08/07/2020			08/15/2020 15:03	Ping Hua	2189173
EPA 351.2 Rev. 2.0	08/07/2020	08/13/2020 10:15	Sima Feizi	08/14/2020 11:18	Jhamieka S. Greenwood	2189173
	08/07/2020	08/13/2020 10:15	Sima Feizi	08/14/2020 11:19	Jhamieka S. Greenwood	2189176
EPA 353.2 Rev. 2.0	08/07/2020			08/10/2020 08:52	Beverly Y. Sanders	2189173
	08/07/2020			08/10/2020 08:53	Beverly Y. Sanders	2189176
EPA 365.1 Rev. 2.0	08/07/2020	08/11/2020 11:28	Yen Ta	08/12/2020 15:15	Benjamin T. Nordmann	2189173
	08/07/2020	08/11/2020 11:28	Yen Ta	08/12/2020 15:16	Benjamin T. Nordmann	2189176
EPA 365.1 Rev. 2.0 dissolved	08/07/2020			08/07/2020 15:34	Samantha Davila	2189174
	08/07/2020			08/07/2020 15:42	Samantha Davila	2189177
SM 2120 B-2011	08/07/2020			08/07/2020 18:47	Julia Storbeck	2189172
	08/07/2020			08/07/2020 19:07	Julia Storbeck	2189175
SM 2320 B-2011	08/07/2020			08/10/2020 19:53	Dale L. Simmons	2189172
	08/07/2020			08/10/2020 20:06	Dale L. Simmons	2189175
SM 2540 C-2011	08/07/2020			08/12/2020 15:12	Yijie Li	2189172, 2189175
SM 2540 D-2011	08/07/2020			08/12/2020 15:12	Yijie Li	2189172, 2189175
SM 4500 F-C-2011	08/07/2020			08/10/2020 19:53	Dale L. Simmons	2189172
	08/07/2020			08/10/2020 20:06	Dale L. Simmons	2189175
SM 5310 B-2011	08/07/2020			08/11/2020 07:57	David Boose	2189173
	08/07/2020			08/11/2020 08:09	David Boose	2189176