Chemical Analysis Report

SE-DIST-2020-07-22-01

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

Event Description: **SMP- PB/Broward**
Request ID: **RQ-2020-07-20-47**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Drew Liddick

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: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 07-AUG-2020 12:37

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: E-1 West @ Glades **Collection Date/Time: 07/21/2020 10:45**

Field ID: G3SE0033 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2184637	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P385059	
	EPA 300.0 Rev. 2.1	Chloride	25		mg Cl/L	P385318	
		Sulfate	22		mg SO4/L	P385322	
	SM 2120 B-2011	Color (true)	29		PCU	P385029	
	SM 2320 B-2011	Total Alkalinity	156		mg CaCO3/L	P385103	
	SM 2540 C-2011	TDS	254		mg/L	P385596	
	SM 2540 D-2011	TSS	8	I	mg/L	P385591	
	SM 4500 F-C-2011	Fluoride	0.23		mg F/L	P385106	
2184639	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P385143	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P385057	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P385050	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P385236	
	SM 5310 B-2011	Organic Carbon	8.7		mg C/L	P385262	
2184641	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.030		mg P/L	P385014	

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: C-16N @ Bellaggio **Collection Date/Time: 07/21/2020 11:20**

Field ID: G3SE0031 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2184638	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P385059	
	EPA 300.0 Rev. 2.1	Chloride	49		mg Cl/L	P385318	
		Sulfate	15		mg SO4/L	P385322	
	SM 2120 B-2011	Color (true)	49		PCU	P385029	
	SM 2320 B-2011	Total Alkalinity	203		mg CaCO3/L	P385103	
	SM 2540 C-2011	TDS	337		mg/L	P385596	
	SM 2540 D-2011	TSS	7	I	mg/L	P385591	
	SM 4500 F-C-2011	Fluoride	0.14		mg F/L	P385106	
2184640	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P385143	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P385057	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.042		mg N/L	P385050	
	EPA 365.1 Rev. 2.0	Total-P	0.072		mg P/L	P385236	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P385262	
2184642	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P385014	

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: P385059

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385318

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385322

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385143

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385057

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385050

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385236

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385014

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

Reference Method: SM 2120 B-2011
Batch ID: P385029

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P385103

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P385596

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P385591

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P385106

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P385262

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: P385318

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385322

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385143

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385057

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: P385050

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385236

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: P385014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.7		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P385029

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

Reference Method: SM 2320 B-2011
Batch ID: P385103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	93 - 104

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P385106

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

Reference Method: SM 5310 B-2011
Batch ID: P385262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385318

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184605	Chloride	99.2		P	90 - 110
2184710	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385322

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184605	Sulfate	96.5		P	90 - 110
2184710	Sulfate	98.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184564	Ammonia-N	100	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385057

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184627	Kjeldahl Nitrogen	106	97.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184639	NO2NO3-N	99.0	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385236

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184639	Total-P	106	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184630	O-Phosphate-P	96.0	96.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P385106

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184563	Fluoride	107	106	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P385262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184625	Organic Carbon	93.0	94.5	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P385059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184555	Turbidity	4.79	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385318

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184605	Chloride	0.724	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385322

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184605	Sulfate	0.692	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184564	Ammonia-N	0.865	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385057

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184627	Kjeldahl Nitrogen	4.62	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184639	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385236

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184639	Total-P	1.96	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184630	O-Phosphate-P	0.933	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2120 B-2011
Batch ID: P385029

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184563	Color (true)	9.86	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P385103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184563	Total Alkalinity	1.17	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P385596

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184624	TDS	6.98	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P385106

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184563	Fluoride	0.464	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P385262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184625	Organic Carbon	0.813	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: A100021
Included Lab Sample IDs: 2184641, 2184642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.0	97.6	P/P	90 - 110
O-Phosphate-P	97.6	97.2	P/P	90 - 110

Reference Method: SM 2120 B-2011
Run ID: A100026
Included Lab Sample IDs: 2184637, 2184638

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A100035
Included Lab Sample IDs: 2184639, 2184640

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A100038
Included Lab Sample IDs: 2184637, 2184638

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

Reference Method: SM 2320 B-2011
Run ID: A100054
Included Lab Sample IDs: 2184637, 2184638

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.5	97.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A100054
Included Lab Sample IDs: 2184637, 2184638

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A100064
Included Lab Sample IDs: 2184639, 2184640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A100073
Included Lab Sample IDs: 2184639, 2184640

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

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-2011
Run ID: A100127
Included Lab Sample IDs: 2184639, 2184640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	96.6	P/P	90 - 110
Organic Carbon	96.6	96.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A100152
Included Lab Sample IDs: 2184637, 2184638

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	99.8	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A100162
Included Lab Sample IDs: 2184639, 2184640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	102	P/P	90 - 110
Total-P	102	100	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	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					4.79	
EPA 300.0 Rev. 2.1	Chloride	100	99.2	99.7		0.724	
	Sulfate	98.8	96.5	98.2		0.692	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	100	98.8			0.865
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	106	97.1			4.62
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	99.0	99.0			0.0
EPA 365.1 Rev. 2.0	Total-P	103	106	108			1.96
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.7	96.0	96.9			0.933
SM 2120 B-2011	Color (true)	101				9.86	
SM 2320 B-2011	Total Alkalinity	100				1.17	
SM 2540 C-2011	TDS					6.98	
SM 4500 F-C-2011	Fluoride	100	107	106			0.464
SM 5310 B-2011	Organic Carbon	97.0	93.0	94.5			0.813

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2184637, 2184638
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2184637, 2184638
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2184637, 2184638
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2184639, 2184640
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2184639, 2184640
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2184639, 2184640
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2184639, 2184640
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2184641, 2184642
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2184637, 2184638
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2184637, 2184638
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2184637, 2184638
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2184637, 2184638
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2184637, 2184638
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2184639, 2184640

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	07/22/2020			07/22/2020 16:45	Blanca Fach	2184637, 2184638
EPA 300.0 Rev. 2.1	07/22/2020			07/29/2020 04:41	Julia Storbeck	2184637
	07/22/2020			07/29/2020 04:53	Julia Storbeck	2184638
EPA 350.1 Rev. 2.0	07/22/2020			07/25/2020 12:51	Ping Hua	2184639
	07/22/2020			07/25/2020 12:52	Ping Hua	2184640
EPA 351.2 Rev. 2.0	07/22/2020	07/23/2020 10:20	Sima Feizi	07/24/2020 14:21	Jhamieka S. Greenwood	2184639
	07/22/2020	07/23/2020 10:20	Sima Feizi	07/24/2020 14:23	Jhamieka S. Greenwood	2184640
EPA 353.2 Rev. 2.0	07/22/2020			07/23/2020 09:34	Beverly Y. Sanders	2184639
	07/22/2020			07/23/2020 09:41	Beverly Y. Sanders	2184640
EPA 365.1 Rev. 2.0	07/22/2020	07/28/2020 10:00	Lipi Saha	07/29/2020 14:47	Benjamin T. Nordmann	2184639
	07/22/2020	07/28/2020 10:00	Lipi Saha	07/29/2020 14:52	Benjamin T. Nordmann	2184640
EPA 365.1 Rev. 2.0 dissolved	07/22/2020			07/22/2020 15:00	Jhamieka S. Greenwood	2184642
	07/22/2020			07/22/2020 15:07	Jhamieka S. Greenwood	2184641
SM 2120 B-2011	07/22/2020			07/22/2020 16:26	Benjamin T. Nordmann	2184637
	07/22/2020			07/22/2020 16:27	Benjamin T. Nordmann	2184638
SM 2320 B-2011	07/22/2020			07/23/2020 23:40	Dale L. Simmons	2184637
	07/22/2020			07/23/2020 23:54	Dale L. Simmons	2184638
SM 2540 C-2011	07/22/2020			07/27/2020 14:36	Yijie Li	2184637, 2184638
SM 2540 D-2011	07/22/2020			07/27/2020 14:36	Yijie Li	2184637, 2184638
SM 4500 F-C-2011	07/22/2020			07/23/2020 23:40	Dale L. Simmons	2184637
	07/22/2020			07/23/2020 23:54	Dale L. Simmons	2184638
SM 5310 B-2011	07/22/2020			07/28/2020 02:34	David Boose	2184639
	07/22/2020			07/28/2020 03:11	David Boose	2184640