

Chemical Analysis Report

NE-DIST-2021-08-06-01

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

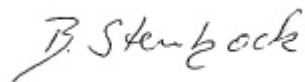
Event Description: **Palm Valley Boat**
Request ID: **RQ-2021-08-02-28**
Customer: **NE-DIST**
Project ID: **SMP**

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FL Dept. of Environmental Protection
8800 Baymeadows Way West
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 01-SEP-2021 17:10



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: DEEP CREEK 270M ABOVE ICW

Collection Date/Time: 08/05/2021 11:05

Field ID: 27010165

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2267987	EPA 180.1 Rev. 2.0	Turbidity	21		NTU	P402143	
	SM 2320 B-2011	Total Alkalinity	76	A	mg CaCO3/L	P402218	
	SM 2540 D-2011	TSS	26		mg/L	P402576	
	SM 4500 F-C-2011	Fluoride	0.39		mg F/L	P402220	
2267990	EPA 350.1 Rev. 2.0	Ammonia-N	0.055		mg N/L	P402381	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P402836	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.028		mg N/L	P402163	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P402236	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P402839	
2267993	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.064		mg P/L	P402138	

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: CAPO CREEK 300M ABOVE MOUTH

Collection Date/Time: 08/05/2021 10:25

Field ID: 27010019

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2267988	EPA 180.1 Rev. 2.0	Turbidity	26		NTU	P402144	
	SM 2320 B-2011	Total Alkalinity	92		mg CaCO3/L	P402218	
	SM 2540 D-2011	TSS	54		mg/L	P402577	
	SM 4500 F-C-2011	Fluoride	0.55		mg F/L	P402220	
2267991	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P402381	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P402836	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.062		mg N/L	P402163	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P402236	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P402841	
2267994	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.066		mg P/L	P402138	

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: MARSHALL CREEK 0.5 MILES ABOVE MOUTH Collection Date/Time: 08/05/2021 09:50

Field ID: G5NE0595

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2267989	EPA 180.1 Rev. 2.0	Turbidity	18		NTU	P402144	
	SM 2320 B-2011	Total Alkalinity	99		mg CaCO3/L	P402217	
	SM 2540 D-2011	TSS	23		mg/L	P402576	
	SM 4500 F-C-2011	Fluoride	0.29		mg F/L	P402219	
2267992	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P402381	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P402836	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.067		mg N/L	P402163	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P402236	
	SM 5310 B-2011	Organic Carbon	24		mg C/L	P402839	
2267995	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.074		mg P/L	P402138	

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: P402143

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P402144

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402381

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402836

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402163

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402236

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402138

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

Reference Method: SM 2320 B-2011
Batch ID: P402217

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

Reference Method: SM 2320 B-2011
Batch ID: P402218

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P402576

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P402577

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P402219

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P402220

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P402839

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2011
Batch ID: P402841

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402381

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402836

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: P402163

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: P402236

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402138

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

Reference Method: SM 2320 B-2011
Batch ID: P402217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P402218

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P402219

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.9		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P402220

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P402839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P402841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268045	Ammonia-N	105	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402836

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2268662	Kjeldahl Nitrogen	97.9	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267911	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402236

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267659	Total-P	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402138

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267914	O-Phosphate-P	99.3	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P402219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267928	Fluoride	100	99.2	P/P	92 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P402220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267987	Fluoride	99.6	99.6	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P402839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267840	Organic Carbon	96.5	96.5	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P402841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267640	Organic Carbon	95.2	98.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P402143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267837	Turbidity	1.51	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P402144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268040	Turbidity	1.06	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268045	Ammonia-N	0.669	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2268662	Kjeldahl Nitrogen	3.35	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267911	NO2NO3-N	0.494	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402236

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267659	Total-P	0.161	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402138

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267914	O-Phosphate-P	0.764	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P402217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267928	Total Alkalinity	1.58	Sample	P	0 - 5.2

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P402218

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267987	Total Alkalinity	0.938	Sample	P	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P402219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267928	Fluoride	0.977	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P402220

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267987	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P402839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267840	Organic Carbon	0.0	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P402841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267640	Organic Carbon	2.44	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: A107101

Included Lab Sample IDs: 2267993, 2267994, 2267995

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	98.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A107103

Included Lab Sample IDs: 2267987, 2267988, 2267989

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A107114

Included Lab Sample IDs: 2267990, 2267991, 2267992

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

Reference Method: SM 2320 B-2011

Run ID: A107130

Included Lab Sample IDs: 2267987, 2267988, 2267989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	103	P/P	90 - 110
Total Alkalinity	103	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A107130

Included Lab Sample IDs: 2267987, 2267988, 2267989

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107172

Included Lab Sample IDs: 2267990, 2267991, 2267992

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	107	110	P/P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A107212

Included Lab Sample IDs: 2267990, 2267991, 2267992

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	99.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A107399

Included Lab Sample IDs: 2267990, 2267991, 2267992

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	97.0	P/P	90 - 110
Organic Carbon	95.6	96.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107436

Included Lab Sample IDs: 2267990, 2267991, 2267992

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.4	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		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					1.51	
	Turbidity					1.06	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	105	105			0.669
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	97.9	102			3.35
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	101	102			0.494
EPA 365.1 Rev. 2.0	Total-P	107	106	106			0.161
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	99.3	101			0.764
SM 2320 B-2011	Total Alkalinity	102				1.58	
	Total Alkalinity	103				0.938	
SM 4500 F-C-2011	Fluoride	99.9	100	99.2			0.977
	Fluoride	102	99.6	99.6			0.0
SM 5310 B-2011	Organic Carbon	96.6	96.5	96.5			0.0
	Organic Carbon	95.8	95.2	98.0			2.44

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2267987, 2267988, 2267989
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2267990, 2267991, 2267992
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2267990, 2267991, 2267992
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2267990, 2267991, 2267992
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2267990, 2267991, 2267992
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2267993, 2267994, 2267995
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2267987, 2267988, 2267989
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2267987, 2267988, 2267989
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2267987, 2267988, 2267989
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2267990, 2267991, 2267992

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	08/06/2021			08/06/2021 14:57	Sarah A Nixon	2267987, 2267988, 2267989
EPA 350.1 Rev. 2.0	08/06/2021			08/12/2021 12:26	Ping Hua	2267990
	08/06/2021			08/12/2021 12:27	Ping Hua	2267991
	08/06/2021			08/12/2021 12:28	Ping Hua	2267992
EPA 351.2 Rev. 2.0	08/06/2021	08/23/2021 15:25	Benjamin T. Nordmann	08/24/2021 11:18	Virginia P. Brown	2267990
	08/06/2021	08/23/2021 15:25	Benjamin T. Nordmann	08/24/2021 11:20	Virginia P. Brown	2267991
	08/06/2021	08/23/2021 15:25	Benjamin T. Nordmann	08/24/2021 11:21	Virginia P. Brown	2267992
EPA 353.2 Rev. 2.0	08/06/2021			08/09/2021 09:51	Beverly Y. Sanders	2267990
	08/06/2021			08/09/2021 09:52	Beverly Y. Sanders	2267991
	08/06/2021			08/09/2021 09:54	Beverly Y. Sanders	2267992
EPA 365.1 Rev. 2.0	08/06/2021	08/10/2021 13:06	Simonne.V. Calhoun	08/11/2021 10:18	Shengyu Ding	2267990
	08/06/2021	08/10/2021 13:06	Simonne.V. Calhoun	08/11/2021 10:19	Shengyu Ding	2267991
	08/06/2021	08/10/2021 13:06	Simonne.V. Calhoun	08/11/2021 10:20	Shengyu Ding	2267992
EPA 365.1 Rev. 2.0 dissolved	08/06/2021			08/06/2021 15:02	Blanca Fach	2267993
	08/06/2021			08/06/2021 15:03	Blanca Fach	2267994, 2267995
SM 2320 B-2011	08/06/2021			08/09/2021 20:28	Sarah A Nixon	2267989
	08/06/2021			08/09/2021 22:40	Sarah A Nixon	2267987
	08/06/2021			08/09/2021 22:55	Sarah A Nixon	2267988
SM 2540 D-2011	08/06/2021			08/11/2021 14:58	Yijie Li	2267987, 2267988, 2267989
SM 4500 F-C-2011	08/06/2021			08/09/2021 20:28	Sarah A Nixon	2267989
	08/06/2021			08/09/2021 21:53	Sarah A Nixon	2267987
	08/06/2021			08/09/2021 22:07	Sarah A Nixon	2267988
SM 5310 B-2011	08/06/2021			08/21/2021 01:35	Madeline Gruver	2267990
	08/06/2021			08/21/2021 01:55	Madeline Gruver	2267992
	08/06/2021			08/21/2021 19:37	Madeline Gruver	2267991