

Chemical Analysis Report

SO-DIST-2023-03-01-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

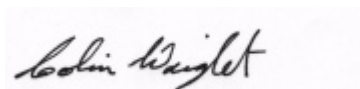
Event Description: **2023 SMP: Down the Hatchee**
Request ID: **RQ-2023-02-20-20**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: William Mullen

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Certified by: Colin Wright, Program Administrator

Date Certified: 23-MAR-2023 08:50



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: Caloosa Above Bridge St.

Collection Date/Time: 02/27/2023 09:25

Field ID: G3SD0178

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390727	EPA 300.0 Rev. 2.1	Chloride	47		mg Cl/L	P426998	
		Sulfate	19		mg SO4/L	P427001	
	SM 2320 B-2011	Total Alkalinity	97	A	mg CaCO3/L	P426828	
	SM 2540 C-2015	TDS	262		mg/L	P427176	
	SM 2540 D-2015	TSS	26		mg/L	P426964	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P426977	
2390729	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P426729	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P426845	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.091		mg N/L	P426791	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P426994	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P426852	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Caloosahatchee River Above S-78

Collection Date/Time: 02/27/2023 10:20

Field ID: G3SD0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390728	EPA 300.0 Rev. 2.1	Chloride	47		mg Cl/L	P426998	
		Sulfate	19		mg SO4/L	P427001	
	SM 2320 B-2011	Total Alkalinity	100		mg CaCO3/L	P426828	
	SM 2540 C-2015	TDS	233		mg/L	P427176	
	SM 2540 D-2015	TSS	9	I	mg/L	P426964	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P426977	
2390730	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P426731	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P427254	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.091		mg N/L	P426791	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P426994	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P426797	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427001

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426729

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426731

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426845

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427254

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426791

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426994

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

Reference Method: SM 2320 B-2011
Batch ID: P426828

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P427176

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426964

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P426797

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

Reference Method: SM 5310 B-2011
Batch ID: P426852

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: P426998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427001

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426729

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426731

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426845

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427254

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: P426791

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426994

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

Reference Method: SM 2320 B-2011
Batch ID: P426828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.4		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P427176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.1		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P426964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.5		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.6		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426797

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	92.4		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P426852

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390557	Chloride	96.7		P	90 - 110
2390614	Chloride	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427001

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390557	Sulfate	100		P	90 - 110
2390614	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426729

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390652	Ammonia-N	97.6	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426731

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390730	Ammonia-N	98.4	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426845

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390683	Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390050	Kjeldahl Nitrogen	96.3	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390643	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390784	Total-P	99.8	99.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390782	Fluoride	98.7	97.3	P/P	94 - 104

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P426797

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391105	Organic Carbon	85.5	88.3	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P426852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390617	Organic Carbon	96.2	99.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390557	Chloride	0.00877	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390652	Ammonia-N	1.89	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390730	Ammonia-N	0.915	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390683	Kjeldahl Nitrogen	0.391	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390050	Kjeldahl Nitrogen	4.80	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390643	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390784	Total-P	0.499	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P426828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390727	Total Alkalinity	0.204	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P427176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390616	TDS	3.04	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390782	Fluoride	0.986	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P426797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391105	Organic Carbon	2.84	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P426852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390617	Organic Carbon	3.02	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117820

Included Lab Sample IDs: 2390729, 2390730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117821

Included Lab Sample IDs: 2390729, 2390730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	100	P/P	90 - 110
Ammonia-N	99.3	99.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117833

Included Lab Sample IDs: 2390727, 2390728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.9	96.7	P/P	90 - 110
Sulfate	99.5	99.8	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A117846

Included Lab Sample IDs: 2390730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	96.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A117858

Included Lab Sample IDs: 2390727, 2390728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	98.9	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A117865

Included Lab Sample IDs: 2390729

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.6	98.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117917

Included Lab Sample IDs: 2390727, 2390728

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117945

Included Lab Sample IDs: 2390729

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117945

Included Lab Sample IDs: 2390729

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.7	97.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117974

Included Lab Sample IDs: 2390729, 2390730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.5	98.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118092

Included Lab Sample IDs: 2390730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.2	98.7	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 300.0 Rev. 2.1	Chloride	98.1	96.7	95.8		0.0087	
	Sulfate	103	100	99.7			
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	97.6	100			1.89
	Ammonia-N	99.0	98.4	99.6			0.915
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	103	104			0.391
	Kjeldahl Nitrogen	102	96.3	103			4.80
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101	101			0.0
EPA 365.1 Rev. 2.0	Total-P	98.2	99.8	99.3			0.499
SM 2320 B-2011	Total Alkalinity	99.4				0.204	
SM 2540 C-2015	TDS	95.1				3.04	
SM 2540 D-2015	TSS	99.5					
SM 4500-F- C-2011	Fluoride	98.6	98.7	97.3			0.986
SM 5310 B-2011	Organic Carbon	92.4	85.5	88.3			2.84
	Organic Carbon	94.5	96.2	99.2			3.02

Reference Method Descriptions

Method	Description	Associated Samples
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2390727, 2390728
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2390727, 2390728
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2390729, 2390730
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2390729, 2390730
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2390729, 2390730
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2390729, 2390730
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2390727, 2390728
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2390727, 2390728
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2390727, 2390728
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2390727, 2390728
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2390729, 2390730

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 300.0 Rev. 2.1	03/01/2023			03/09/2023 17:52	Judith K. Clark	2390727
	03/01/2023			03/09/2023 18:07	Judith K. Clark	2390728
EPA 350.1 Rev. 2.0	03/01/2023			03/06/2023 11:11	Khloe J Berg	2390729
	03/01/2023			03/06/2023 11:53	Khloe J Berg	2390730
EPA 351.2 Rev. 2.0	03/01/2023	03/08/2023 14:00	Simonne.V. Calhoun	03/11/2023 13:44	Judith K. Clark	2390729
	03/01/2023	03/20/2023 12:15	Simonne.V. Calhoun	03/21/2023 09:49	Samantha L Bates	2390730
EPA 353.2 Rev. 2.0	03/01/2023			03/06/2023 11:03	Beverly Y. Sanders	2390729
	03/01/2023			03/06/2023 11:04	Beverly Y. Sanders	2390730
EPA 365.1 Rev. 2.0	03/01/2023	03/10/2023 13:50	Adam P Silver	03/14/2023 10:09	James L Waggeberby	2390729
	03/01/2023	03/10/2023 13:50	Adam P Silver	03/14/2023 10:10	James L Waggeberby	2390730
SM 2320 B-2011	03/01/2023			03/08/2023 00:34	Chandler E Cox	2390727
	03/01/2023			03/08/2023 01:23	Chandler E Cox	2390728
SM 2540 C-2015	03/01/2023			03/03/2023 15:41	Yijie Li	2390727, 2390728
SM 2540 D-2015	03/01/2023			03/03/2023 15:41	Yijie Li	2390727, 2390728
SM 4500-F- C-2011	03/01/2023			03/10/2023 07:07	Dale L. Simmons	2390727
	03/01/2023			03/10/2023 07:13	Dale L. Simmons	2390728
SM 5310 B-2011	03/01/2023			03/07/2023 04:01	Elise M. Gillis	2390730
	03/01/2023			03/08/2023 09:07	Elise M. Gillis	2390729