

Chemical Analysis Report

CEN-DIST-2023-10-17-01

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

Event Description: **Run 15**
Request ID: **RQ-2023-10-09-26**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Date Certified: 30-OCT-2023 14:53



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: CROOKED LAKE AT CENTER OF N LOBE

Collection Date/Time: 10/16/2023 10:28

Field ID: G2CE0265

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2445371	DEP SOP: NU-094-1	Color (true)	80		PCU	P436621	
	EPA 180.1 Rev. 2.0	Turbidity	6.1		NTU	P436620	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P436821	
		Sulfate	0.33	I	mg SO4/L	P436824	
	SM 2320 B-2011	Total Alkalinity	23		mg CaCO3/L	P436799	
	SM 2540 C-2015	TDS	86		mg/L	P437082	
	SM 2540 D-2015	TSS	10	I	mg/L	P437021	
	SM 4500-F- C-2011	Fluoride	0.054	I	mg F/L	P436803	
2445373	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P436811	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P436728	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436936	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P436653	
	SM 5310 B-2011	Organic Carbon	19		mg C/L	P436850	

Ref. Method and Comment:

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

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: HIDDEN LAKE AT CENTER

Collection Date/Time: 10/16/2023 12:21

Field ID: G4CE0158

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2445372	DEP SOP: NU-094-1	Color (true)	43	A	PCU	P436621	
	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P436620	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P436821	
		Sulfate	0.63		mg SO4/L	P436824	
	SM 2320 B-2011	Total Alkalinity	127		mg CaCO3/L	P436799	
	SM 2540 C-2015	TDS	197		mg/L	P437082	
	SM 2540 D-2015	TSS	4	I	mg/L	P437021	
	SM 4500-F- C-2011	Fluoride	0.19		mg F/L	P436803	
2445374	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P436811	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2	J	mg N/L	P436728	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P437075	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P436653	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P436850	

Ref. Method and Comment:

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

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436621

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436620

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436821

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436824

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436811

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436728

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436936

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437075

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436653

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P436799

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

Reference Method: SM 2540 C-2015
Batch ID: P437082

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P437021

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436803

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P436850

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P436621

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436620

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436821

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436824

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436811

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: P436728

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437075

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: P436653

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P436799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P437082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.2		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P437021

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.2		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P436803

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.7		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436850

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436821

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445094	Chloride	104		P	90 - 110
2445372	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436824

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445094	Sulfate	103		P	90 - 110
2445372	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436811

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445409	Ammonia-N	98.6	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436728

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445374	Kjeldahl Nitrogen	111	110	F/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436936

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445373	NO2NO3-N	95.0	94.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437075

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445374	NO2NO3-N	96.8	96.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445384	Total-P	107	108	P/P	90 - 110

Reference Method: SM 5310 B-2011
Batch ID: P436850

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445180	Organic Carbon	96.0	96.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445372	Color (true)	2.55	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445093	Turbidity	3.24	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436821

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445094	Chloride	1.97	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436824

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445094	Sulfate	1.20	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436811

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445409	Ammonia-N	0.717	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445374	Kjeldahl Nitrogen	0.463	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445373	NO2NO3-N	0.528	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445374	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445384	Total-P	0.395	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P436799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445672	Total Alkalinity	1.03	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P437082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445187	TDS	5.22	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445672	Fluoride	0.947	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P436850

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445180	Organic Carbon	0.212	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A122198

Included Lab Sample IDs: 2445371, 2445372

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122199

Included Lab Sample IDs: 2445371, 2445372

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122209

Included Lab Sample IDs: 2445371, 2445372

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	103	P/P	90 - 110
Chloride	102	101	P/P	90 - 110
Sulfate	102	103	P/P	90 - 110
Sulfate	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122257

Included Lab Sample IDs: 2445374

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

Reference Method: SM 2320 B-2011

Run ID: A122259

Included Lab Sample IDs: 2445371, 2445372

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.8	95.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122259

Included Lab Sample IDs: 2445371, 2445372

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122263

Included Lab Sample IDs: 2445373, 2445374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	98.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A122276

Included Lab Sample IDs: 2445373, 2445374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	97.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122287

Included Lab Sample IDs: 2445373, 2445374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122291

Included Lab Sample IDs: 2445373

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122313

Included Lab Sample IDs: 2445373

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	96.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122402

Included Lab Sample IDs: 2445374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.0	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	MS
DEP SOP: NU-094-1	Color (true)	101			2.55	
EPA 180.1 Rev. 2.0	Turbidity	104			3.24	
EPA 300.0 Rev. 2.1	Chloride	102	104	106	1.97	
	Sulfate	101	103	106	1.20	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	98.6	97.8		0.717
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	111	110		0.463
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0	95.0	94.5		0.528
	NO2NO3-N	99.5	96.8	96.8		0.0
EPA 365.1 Rev. 2.0	Total-P	107	107	108		0.395
SM 2320 B-2011	Total Alkalinity	97.1			1.03	
SM 2540 C-2015	TDS	93.2			5.22	
SM 2540 D-2015	TSS	95.2				
SM 4500-F- C-2011	Fluoride	99.7				0.947
SM 5310 B-2011	Organic Carbon	94.2	96.0	96.3		0.212

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2445371, 2445372
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2445371, 2445372
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2445371, 2445372
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2445371, 2445372
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2445373, 2445374
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2445373, 2445374
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2445373, 2445374
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2445373, 2445374
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2445371, 2445372
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2445371, 2445372
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2445371, 2445372
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2445371, 2445372
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2445373, 2445374

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	10/17/2023			10/17/2023 15:52	Anna M. Plaviak	2445371
	10/17/2023			10/17/2023 15:53	Anna M. Plaviak	2445372
EPA 180.1 Rev. 2.0	10/17/2023			10/17/2023 14:58	Khloe J Berg	2445371
	10/17/2023			10/17/2023 14:59	Khloe J Berg	2445372
EPA 300.0 Rev. 2.1	10/17/2023			10/19/2023 04:22	James L Waggeberby	2445372
	10/17/2023			10/19/2023 08:39	James L Waggeberby	2445371
EPA 350.1 Rev. 2.0	10/17/2023			10/20/2023 12:02	Ping Hua	2445373
	10/17/2023			10/20/2023 12:03	Ping Hua	2445374
EPA 351.2 Rev. 2.0	10/17/2023	10/19/2023 15:24	Samantha L Bates	10/23/2023 10:45	Samantha L Bates	2445373
	10/17/2023	10/19/2023 15:24	Samantha L Bates	10/23/2023 10:47	Samantha L Bates	2445374
EPA 353.2 Rev. 2.0	10/17/2023			10/23/2023 15:16	Fadila Guebre	2445373
	10/17/2023			10/26/2023 15:23	Fadila Guebre	2445374
EPA 365.1 Rev. 2.0	10/17/2023	10/18/2023 13:42	Adam P Silver	10/19/2023 15:58	James L Waggeberby	2445374
	10/17/2023	10/18/2023 13:42	Adam P Silver	10/23/2023 12:06	Chandler E Cox	2445373
SM 2320 B-2011	10/17/2023			10/20/2023 00:28	Dale L. Simmons	2445371
	10/17/2023			10/20/2023 00:42	Dale L. Simmons	2445372
SM 2540 C-2015	10/17/2023			10/20/2023 16:03	Yijie Li	2445371, 2445372
SM 2540 D-2015	10/17/2023			10/20/2023 16:03	Yijie Li	2445371, 2445372
SM 4500-F- C-2011	10/17/2023			10/20/2023 00:28	Dale L. Simmons	2445371
	10/17/2023			10/20/2023 00:42	Dale L. Simmons	2445372
SM 5310 B-2011	10/17/2023			10/20/2023 01:35	Elise M. Gillis	2445373
	10/17/2023			10/20/2023 01:48	Elise M. Gillis	2445374