

Chemical Analysis Report

SO-DIST-2023-10-11-03

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

Event Description: **2023 SMP: Whid's End**
Request ID: **RQ-2023-10-09-64**
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: Nicole Reistad

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Chris Bowen, Environmental Administrator

Date Certified: 26-OCT-2023 09:56



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: CORALCREEKEAST

Collection Date/Time: 10/10/2023 09:05

Field ID: G2SD0046

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444435	DEP SOP: NU-094-1	Color (true)	160		PCU	P436367	
	EPA 180.1 Rev. 2.0	Turbidity	1.3	A	NTU	P436363	
	EPA 300.0 Rev. 2.1	Chloride	1.2E+04		mg Cl/L	P436819	
		Sulfate	1.7E+03		mg SO4/L	P436822	
	SM 2320 B-2011	Total Alkalinity	146		mg CaCO3/L	P436469	
	SM 2540 C-2015	TDS	2.20E+04		mg/L	P436962	
	SM 2540 D-2015	TSS	3	U	mg/L	P436857	
2444437	SM 4500-F- C-2011	Fluoride	0.82		mg F/L	P436805	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.056		mg N/L	P436614	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P436505	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P436876	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P436460	
	SM 5310 B-2011	Organic Carbon	19		mg C/L	P436659	

Ref. Method and Comment:

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

Sample Location: WHIDDEN CREEK AT SOUTH POINT

Collection Date/Time: 10/10/2023 10:10

Field ID: G2SD0029

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444436	DEP SOP: NU-094-1	Color (true)	61		PCU	P436367	
	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P436363	
	EPA 300.0 Rev. 2.1	Chloride	1.7E+04		mg Cl/L	P436819	
		Sulfate	2.3E+03		mg SO4/L	P436822	
	SM 2320 B-2011	Total Alkalinity	133		mg CaCO3/L	P436469	
	SM 2540 C-2015	TDS	2.82E+04		mg/L	P436962	
	SM 2540 D-2015	TSS	4	IA	mg/L	P436857	
2444438	SM 4500-F- C-2011	Fluoride	1.1		mg F/L	P436805	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P436614	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P436505	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436876	
	EPA 365.1 Rev. 2.0	Total-P	0.054		mg P/L	P436649	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P436659	

Ref. Method and Comment:

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: DEP SOP: NU-094-1
Batch ID: P436367

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436363

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436819

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436822

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436614

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436505

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436876

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436460

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436649

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: P436469

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

Reference Method: SM 2540 C-2015
Batch ID: P436962

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436857

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436805

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P436659

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: P436367

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.0		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436363

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436819

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436822

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: P436614

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436505

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436876

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: P436460

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436649

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P436469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.5		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P436962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	92.8		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P436857

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	103		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P436805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436659

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.7		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444506	Chloride	100		P	90 - 110
2444639	Chloride	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436822

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444506	Sulfate	99.6		P	90 - 110
2444639	Sulfate	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436614

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444554	Ammonia-N	102	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436505

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444554	Kjeldahl Nitrogen	98.2	99.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444295	NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444122	Total-P	98.9	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445243	Total-P	98.6	98.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P436805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444293	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444437	Organic Carbon	86.4	93.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436367

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444423	Color (true)	0.712	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444435	Turbidity	3.95	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444506	Chloride	0.0812	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444506	Sulfate	0.462	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436614

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444554	Ammonia-N	0.345	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436505

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444554	Kjeldahl Nitrogen	0.740	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444295	NO2NO3-N	0.705	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444122	Total-P	0.126	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445243	Total-P	0.177	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P436469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444291	Total Alkalinity	0.490	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444967	TDS	6.51	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444293	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P436659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444437	Organic Carbon	6.40	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122083

Included Lab Sample IDs: 2444435, 2444436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A122085

Included Lab Sample IDs: 2444435, 2444436

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

Reference Method: SM 2320 B-2011

Run ID: A122131

Included Lab Sample IDs: 2444435, 2444436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.3	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122194

Included Lab Sample IDs: 2444437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	109	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122195

Included Lab Sample IDs: 2444437, 2444438

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122209

Included Lab Sample IDs: 2444435, 2444436

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

Reference Method: SM 5310 B-2011

Run ID: A122210

Included Lab Sample IDs: 2444437, 2444438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	97.7	P/P	90 - 110
Organic Carbon	97.3	91.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122221

Included Lab Sample IDs: 2444437, 2444438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
-----------	---------	---------	------------	----------------

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122221

Included Lab Sample IDs: 2444437, 2444438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.2	95.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122259

Included Lab Sample IDs: 2444435, 2444436

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122291

Included Lab Sample IDs: 2444438

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122293

Included Lab Sample IDs: 2444437, 2444438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	98.5	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)	97.0			0.712	
EPA 180.1 Rev. 2.0	Turbidity	104			3.95	
EPA 300.0 Rev. 2.1	Chloride	99.8	100	99.8	0.0812	
	Sulfate	98.8	99.6	97.8	0.462	
EPA 350.1 Rev. 2.0	Ammonia-N	102	102	101		0.345
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.6	98.2	99.1		0.740
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	99.5			0.705
EPA 365.1 Rev. 2.0	Total-P	103	98.9	99.0		0.126
	Total-P	103	98.6	98.8		0.177
SM 2320 B-2011	Total Alkalinity	97.5			0.490	
SM 2540 C-2015	TDS	92.8			6.51	
SM 2540 D-2015	TSS	103				
SM 4500-F- C-2011	Fluoride	101	101	101		0.0
SM 5310 B-2011	Organic Carbon	96.7	86.4	93.7		6.40

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2444435, 2444436
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2444435, 2444436
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2444435, 2444436
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2444435, 2444436
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2444437, 2444438
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2444437, 2444438
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2444437, 2444438
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2444437, 2444438
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2444435, 2444436
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2444435, 2444436
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2444435, 2444436
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2444435, 2444436
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2444437, 2444438

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	10/11/2023			10/11/2023 15:09	Chandler E Cox	2444435, 2444436
EPA 180.1 Rev. 2.0	10/11/2023			10/11/2023 14:27	Samantha L Bates	2444435
	10/11/2023			10/11/2023 14:28	Samantha L Bates	2444436
EPA 300.0 Rev. 2.1	10/11/2023			10/18/2023 14:02	James L Waggeberby	2444435
	10/11/2023			10/18/2023 14:17	James L Waggeberby	2444436
EPA 350.1 Rev. 2.0	10/11/2023			10/17/2023 13:47	Ping Hua	2444437
	10/11/2023			10/17/2023 13:58	Ping Hua	2444438
EPA 351.2 Rev. 2.0	10/11/2023	10/16/2023 16:38	Simonne.V. Calhoun	10/18/2023 11:38	Samantha L Bates	2444437
	10/11/2023	10/16/2023 16:38	Simonne.V. Calhoun	10/18/2023 11:40	Samantha L Bates	2444438
EPA 353.2 Rev. 2.0	10/11/2023			10/23/2023 12:24	Anna M. Plaviak	2444437
	10/11/2023			10/23/2023 12:25	Anna M. Plaviak	2444438
EPA 365.1 Rev. 2.0	10/11/2023	10/13/2023 12:30	Adam P Silver	10/17/2023 11:20	James L Waggeberby	2444437
	10/11/2023	10/18/2023 13:42	Adam P Silver	10/23/2023 11:14	Chandler E Cox	2444438
SM 2320 B-2011	10/11/2023			10/12/2023 21:20	Chandler E Cox	2444435
	10/11/2023			10/12/2023 21:32	Chandler E Cox	2444436
SM 2540 C-2015	10/11/2023			10/16/2023 15:32	Yijie Li	2444435, 2444436
SM 2540 D-2015	10/11/2023			10/16/2023 15:32	Yijie Li	2444435, 2444436
SM 4500-F- C-2011	10/11/2023			10/20/2023 07:16	Dale L. Simmons	2444435
	10/11/2023			10/20/2023 07:21	Dale L. Simmons	2444436
SM 5310 B-2011	10/11/2023			10/17/2023 00:09	Khloe J Berg	2444437
	10/11/2023			10/17/2023 06:30	Khloe J Berg	2444438