

Chemical Analysis Report

TLH-ROC-2021-10-25-02

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

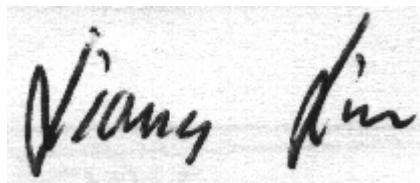
Event Description: **Run 16**
Request ID: **RQ-2021-10-18-44**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 18-NOV-2021 13:36

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

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: Bailey Mill Creek @ Wilson Rd

Collection Date/Time: 10/25/2021 09:45

Field ID: G1TLHR0081

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2285877	EPA 180.1 Rev. 2.0	Turbidity	2.6	A	NTU	P405615	
	EPA 300.0 Rev. 2.1	Chloride	5.7	A	mg Cl/L	P406037	
		Sulfate	0.20	UA	mg SO4/L	P406040	
	SM 2120 B-2011	Color (true)	180		PCU	P405613	
	SM 2320 B-2011	Total Alkalinity	49		mg CaCO3/L	P405793	
	SM 2540 C-2011	TDS	101		mg/L	P406283	
	SM 2540 D-2011	TSS	3	I	mg/L	P406277	
2285878	SM 4500 F-C-2011	Fluoride	0.061	I	mg F/L	P405795	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P405858	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P406007	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P405710	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P405628	
2285879	SM 5310 B-2011	Organic Carbon	23		mg C/L	P405771	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.046		mg P/L	P405624	

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-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Telford Spring

Collection Date/Time: 10/25/2021 13:15

Field ID: G1TLHR0141

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2285874	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P405615	
	EPA 300.0 Rev. 2.1	Chloride	7.9		mg Cl/L	P406037	
		Sulfate	35		mg SO4/L	P406040	
	SM 2120 B-2011	Color (true)	4.5	I	PCU	P405613	
	SM 2320 B-2011	Total Alkalinity	203		mg CaCO3/L	P405793	
	SM 2540 C-2011	TDS	276	A	mg/L	P406283	
	SM 2540 D-2011	TSS	2	IA	mg/L	P406277	
	SM 4500 F-C-2011	Fluoride	0.20		mg F/L	P405795	
2285875	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P405858	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.22		mg N/L	P406007	
	EPA 353.2 Rev. 2.0	NO2NO3-N	3.8		mg N/L	P405710	
	EPA 365.1 Rev. 2.0	Total-P	0.066		mg P/L	P405628	
	SM 5310 B-2011	Organic Carbon	1.1		mg C/L	P405771	
2285876	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.060		mg P/L	P405624	

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-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: P405615

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406037

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406040

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405858

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406007

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405710

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405628

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405624

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

Reference Method: SM 2120 B-2011
Batch ID: P405613

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P405793

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

Reference Method: SM 2540 C-2011
Batch ID: P406283

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P406277

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P405795

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P405771

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: P406037

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406040

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405858

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: P406007

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: P405710

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: P405628

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: P405624

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.1		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P405613

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.5		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P405793

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.4		P	94 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P405795

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P405771

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285877	Chloride	98.9		P	90 - 110
2286184	Chloride	97.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285877	Sulfate	101		P	90 - 110
2286184	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405858

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285875	Ammonia-N	98.2	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285726	Kjeldahl Nitrogen	94.3	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285878	NO2NO3-N	97.5	94.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285878	Total-P	107	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405624

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285973	O-Phosphate-P	97.4	98.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P405795

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285786	Fluoride	100	101	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P405771

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285750	Organic Carbon	102		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P405615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285877	Turbidity	6.63	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285877	Chloride	0.751	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285875	Ammonia-N	0.380	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285726	Kjeldahl Nitrogen	6.85	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285878	NO2NO3-N	3.12	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285878	Total-P	2.08	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405624

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285973	O-Phosphate-P	0.442	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P405613

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285913	Color (true)	1.54	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P405793

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285786	Total Alkalinity	1.63	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P406283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285874	TDS	1.09	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P405795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285786	Fluoride	0.492	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P405771

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285750	Organic Carbon	0.801	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A108543

Included Lab Sample IDs: 2285874, 2285877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.0	99.4	P/P	90 - 115
Color (true)	99.4	99.2	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A108544

Included Lab Sample IDs: 2285874, 2285877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	102	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A108546

Included Lab Sample IDs: 2285876, 2285879

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.2	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A108585

Included Lab Sample IDs: 2285875, 2285878

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	107	107	P/P	90 - 110
Total-P	107	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A108587

Included Lab Sample IDs: 2285875, 2285878

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.0	P/P	90 - 110
NO2NO3-N	99.5	99.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A108621

Included Lab Sample IDs: 2285875, 2285878

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.0	94.6	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A108642

Included Lab Sample IDs: 2285874, 2285877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.9	96.8	P/P	90 - 110
Total Alkalinity	96.8	97.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A108642

Included Lab Sample IDs: 2285874, 2285877

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A108662

Included Lab Sample IDs: 2285875, 2285878

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.3	97.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A108733

Included Lab Sample IDs: 2285874, 2285877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.6	99.9	P/P	90 - 110
Sulfate	100	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A108742

Included Lab Sample IDs: 2285875, 2285878

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.3	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					6.63	
EPA 300.0 Rev. 2.1	Chloride	99.3	98.9	97.5		0.751	
	Sulfate	99.8	101	100			
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	98.2	97.8			0.380
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	94.3	105			6.85
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	97.5	94.5			3.12
EPA 365.1 Rev. 2.0	Total-P	103	107	104			2.08
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	97.4	98.2			0.442
SM 2120 B-2011	Color (true)	98.5				1.54	
SM 2320 B-2011	Total Alkalinity	98.4				1.63	
SM 2540 C-2011	TDS					1.09	
SM 4500 F-C-2011	Fluoride	99.8	100	101			0.492
SM 5310 B-2011	Organic Carbon	96.0	102				0.801

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2285874, 2285877
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2285874, 2285877
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2285874, 2285877
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2285875, 2285878
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2285875, 2285878
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2285875, 2285878
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2285875, 2285878
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2285876, 2285879
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2285874, 2285877
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2285874, 2285877
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2285874, 2285877
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2285874, 2285877
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2285874, 2285877
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2285875, 2285878

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	10/25/2021			10/26/2021 15:00	Khloe J Berg	2285874, 2285877
EPA 300.0 Rev. 2.1	10/25/2021			11/03/2021 16:19	Roberta Tatti	2285877
	10/25/2021			11/03/2021 17:08	Roberta Tatti	2285874
EPA 350.1 Rev. 2.0	10/25/2021			11/02/2021 11:58	Ping Hua	2285875
	10/25/2021			11/02/2021 12:02	Ping Hua	2285878
EPA 351.2 Rev. 2.0	10/25/2021	11/04/2021 12:43	Benjamin T. Nordmann	11/05/2021 10:43	Alexandra J Mattheus	2285875
	10/25/2021	11/04/2021 12:43	Benjamin T. Nordmann	11/05/2021 10:45	Alexandra J Mattheus	2285878
EPA 353.2 Rev. 2.0	10/25/2021			10/28/2021 10:46	Beverly Y. Sanders	2285878
	10/25/2021			10/28/2021 11:56	Beverly Y. Sanders	2285875
EPA 365.1 Rev. 2.0	10/25/2021	10/27/2021 15:15	Simonne.V. Calhoun	10/28/2021 10:23	Lipi Saha	2285878
	10/25/2021	10/27/2021 15:15	Simonne.V. Calhoun	10/28/2021 10:34	Lipi Saha	2285875
EPA 365.1 Rev. 2.0 dissolved	10/25/2021			10/26/2021 16:44	James L Waggeberby	2285876, 2285879
SM 2120 B-2011	10/25/2021			10/26/2021 16:11	Sarah A Nixon	2285874
	10/25/2021			10/26/2021 16:23	Sarah A Nixon	2285877
SM 2320 B-2011	10/25/2021			10/28/2021 20:30	Dale L. Simmons	2285874
	10/25/2021			10/28/2021 21:17	Dale L. Simmons	2285877
SM 2540 C-2011	10/25/2021			11/01/2021 09:21	Yijie Li	2285877
	10/25/2021			11/01/2021 09:38	Yijie Li	2285874
SM 2540 D-2011	10/25/2021			11/01/2021 09:21	Yijie Li	2285877
	10/25/2021			11/01/2021 09:38	Yijie Li	2285874
SM 4500 F-C-2011	10/25/2021			10/28/2021 20:30	Dale L. Simmons	2285874
	10/25/2021			10/28/2021 21:17	Dale L. Simmons	2285877
SM 5310 B-2011	10/25/2021			10/28/2021 06:53	Khloe J Berg	2285875
	10/25/2021			10/28/2021 07:05	Khloe J Berg	2285878