

Chemical Analysis Report

CEN-DIST-2021-10-26-03

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

Event Description: **Little Creek**
Request ID: **RQ-2021-10-25-23**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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3319 Maguire Blvd., Suite 232
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Date Certified: 18-NOV-2021 09:12



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: Bull Creek @ Upstream of 441 Bridge

Collection Date/Time: 10/25/2021 12:45

Field ID: G3CE0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2286082	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P405616	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P406037	
		Sulfate	1.7		mg SO4/L	P406040	
	SM 2120 B-2011	Color (true)	490		PCU	P405613	
	SM 2320 B-2011	Total Alkalinity	1.6	I	mg CaCO3/L	P405794	
	SM 2540 C-2011	TDS	141		mg/L	P406283	
	SM 2540 D-2011	TSS	3	I	mg/L	P406277	
	SM 4500 F-C-2011	Fluoride	0.044	I	mg F/L	P405796	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.22		mg N/L	P405859	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P406009	
2286083	EPA 353.2 Rev. 2.0	NO2NO3-N	0.093		mg N/L	P405712	
	EPA 365.1 Rev. 2.0	Total-P	0.38		mg P/L	P405631	
	SM 5310 B-2011	Organic Carbon	44		mg C/L	P405771	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.33		mg P/L	P405625	
	dissolved						

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 10/25/2021 13:00

Field ID: FB_10252021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2286085	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P405616	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P406037	
		Sulfate	0.20	U	mg SO4/L	P406040	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P405613	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P405794	
	SM 2540 C-2011	TDS	15	U	mg/L	P406283	
	SM 2540 D-2011	TSS	2	U	mg/L	P406277	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P405796	
2286086	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P405859	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P406006	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P405712	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P405631	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P405771	
2286087	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P405625	

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: P405616

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: P405859

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406006

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406009

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405712

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405631

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405625

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

Quality Assurance Report

Method Blank Results

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

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P405794

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: P405796

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: P405859

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406006

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406009

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405712

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405631

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405625

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.7		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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P405794

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.2		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P405796

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		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: P405859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286041	Ammonia-N	96.2	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406006

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286252	Kjeldahl Nitrogen	101	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286043	NO2NO3-N	98.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286001	Total-P	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286047	O-Phosphate-P	96.2	97.6	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P405796

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2286264	Fluoride	98.7	98.7	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: P405616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286092	Turbidity	9.35	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: P405859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286041	Ammonia-N	0.966	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406006

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286252	Kjeldahl Nitrogen	0.202	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406009

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2287135	Kjeldahl Nitrogen	4.99	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286043	NO2NO3-N	0.288	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286001	Total-P	0.248	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286047	O-Phosphate-P	0.995	Spike	P	0 - 20

Quality Assurance Report Precision

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

Reference Method: SM 2320 B-2011
Batch ID: P405794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286264	Total Alkalinity	0.0802	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: P405796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2286264	Fluoride	0.0	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: EPA 300.0 Rev. 2.1

Run ID: A106110

Included Lab Sample IDs: 2286082

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	101	98.0	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A108543

Included Lab Sample IDs: 2286082, 2286085

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: 2286082, 2286085

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A108546

Included Lab Sample IDs: 2286084, 2286087

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A108585

Included Lab Sample IDs: 2286083

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A108587

Included Lab Sample IDs: 2286083, 2286086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A108605

Included Lab Sample IDs: 2286086

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

Reference Method: SM 5310 B-2011

Run ID: A108621

Included Lab Sample IDs: 2286083, 2286086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	93.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A108642

Included Lab Sample IDs: 2286082, 2286085

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.4	97.8	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A108642

Included Lab Sample IDs: 2286082, 2286085

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A108662

Included Lab Sample IDs: 2286083, 2286086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	97.7	P/P	90 - 110
Ammonia-N	97.8	97.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A108733

Included Lab Sample IDs: 2286082, 2286085

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: 2286083, 2286086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	105	P/P	90 - 110
Kjeldahl Nitrogen	101	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					9.35	
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	97.6	96.2	97.4			0.966
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	101	100			0.202
	Kjeldahl Nitrogen	98.7					4.99
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.0	98.5	99.0			0.288
EPA 365.1 Rev. 2.0	Total-P	105	101	101			0.248
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.7	96.2	97.6			0.995
SM 2120 B-2011	Color (true)	98.5				1.54	
SM 2320 B-2011	Total Alkalinity	99.2				0.0802	
SM 2540 C-2011	TDS					1.09	
SM 4500 F-C-2011	Fluoride	100	98.7	98.7			0.0
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	2286082, 2286085
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2286082, 2286085
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2286082, 2286085
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2286083, 2286086
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2286083, 2286086
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2286083, 2286086
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2286083, 2286086
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2286084, 2286087
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2286082, 2286085
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2286082, 2286085
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2286082, 2286085
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2286082, 2286085
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2286082, 2286085
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2286083, 2286086

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	10/26/2021			10/26/2021 15:00	Khloe J Berg	2286082, 2286085
EPA 300.0 Rev. 2.1	10/26/2021			11/03/2021 18:09	Roberta Tatti	2286082
	10/26/2021			11/03/2021 18:21	Roberta Tatti	2286085
	10/26/2021			11/06/2021 00:30	Roberta Tatti	2286082
EPA 350.1 Rev. 2.0	10/26/2021			11/02/2021 12:38	Ping Hua	2286086
	10/26/2021			11/02/2021 13:28	Ping Hua	2286083
EPA 351.2 Rev. 2.0	10/26/2021	11/04/2021 12:43	Benjamin T. Nordmann	11/05/2021 09:59	Alexandra J Mattheus	2286086
	10/26/2021	11/04/2021 12:46	Benjamin T. Nordmann	11/05/2021 11:00	Alexandra J Mattheus	2286083
EPA 353.2 Rev. 2.0	10/26/2021			10/28/2021 11:31	Beverly Y. Sanders	2286083
	10/26/2021			10/28/2021 11:32	Beverly Y. Sanders	2286086
EPA 365.1 Rev. 2.0	10/26/2021	10/27/2021 15:15	Simonne.V. Calhoun	10/28/2021 11:23	Lipi Saha	2286083
	10/26/2021	10/27/2021 15:15	Simonne.V. Calhoun	10/28/2021 12:19	Lipi Saha	2286086
EPA 365.1 Rev. 2.0 dissolved	10/26/2021			10/26/2021 17:09	James L Waggeberby	2286084
	10/26/2021			10/26/2021 17:12	James L Waggeberby	2286087
SM 2120 B-2011	10/26/2021			10/26/2021 16:15	Sarah A Nixon	2286085
	10/26/2021			10/26/2021 16:24	Sarah A Nixon	2286082
SM 2320 B-2011	10/26/2021			10/29/2021 00:43	Dale L. Simmons	2286082
	10/26/2021			10/29/2021 00:51	Dale L. Simmons	2286085
SM 2540 C-2011	10/26/2021			11/01/2021 09:54	Yijie Li	2286082
	10/26/2021			11/01/2021 09:58	Yijie Li	2286085
SM 2540 D-2011	10/26/2021			11/01/2021 09:54	Yijie Li	2286082
	10/26/2021			11/01/2021 09:58	Yijie Li	2286085
SM 4500 F-C-2011	10/26/2021			10/29/2021 00:43	Dale L. Simmons	2286082
	10/26/2021			10/29/2021 00:51	Dale L. Simmons	2286085
SM 5310 B-2011	10/26/2021			10/28/2021 08:46	Khloe J Berg	2286083
	10/26/2021			10/28/2021 09:04	Khloe J Berg	2286086