

Chemical Analysis Report

CEN-DIST-2021-11-10-01

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

Event Description: **Lake Ingram + Blank**
Request ID: **RQ-2021-11-08-09**
Customer: **CEN-DIST**
Project ID: **SMP**

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Date Certified: 03-DEC-2021 09:39



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: Lake Ingram East

Collection Date/Time: 11/09/2021 10:05

Field ID: G4CE0155

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2289162	EPA 180.1 Rev. 2.0	Turbidity	0.80		NTU	P406258	
	EPA 300.0 Rev. 2.1	Chloride	9.3		mg Cl/L	P406348	
		Sulfate	3.4		mg SO4/L	P406351	
	SM 2120 B-2011	Color (true)	24	A	PCU	P406270	
	SM 2320 B-2011	Total Alkalinity	7.9		mg CaCO3/L	P406440	
	SM 2540 C-2011	TDS	46		mg/L	P406506	
	SM 2540 D-2011	TSS	2	U	mg/L	P406503	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P406443	
2289163	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P406594	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P406708	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P406303	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P406373	
	SM 5310 B-2011	Organic Carbon	8.3		mg C/L	P406624	
2289164	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P406251	

Ref. Method and Comment:

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

Sample Location: FB

Collection Date/Time: 11/09/2021 10:25

Field ID: FB_11092021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2289165	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P406258	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P406348	
		Sulfate	0.20	U	mg SO4/L	P406351	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P406272	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P406440	
	SM 2540 C-2011	TDS	15	U	mg/L	P406506	
	SM 2540 D-2011	TSS	2	U	mg/L	P406503	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P406443	
2289166	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P406594	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P406661	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P406303	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P406373	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P406624	
2289167	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P406251	

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.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P406258

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406348

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406351

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406594

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406661

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406708

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406303

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406373

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406251

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: P406270

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B-2011
Batch ID: P406272

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P406440

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

Reference Method: SM 2540 C-2011
Batch ID: P406506

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P406503

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P406443

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P406624

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: P406348

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P406351

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P406594

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: P406661

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P406708

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: P406303

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: P406373

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P406251

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: P406270

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.1		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2120 B-2011
Batch ID: P406272

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P406440

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

Reference Method: SM 4500 F-C-2011
Batch ID: P406443

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.4		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P406624

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406348

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289003	Chloride	100		P	90 - 110
2289064	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289003	Sulfate	103		P	90 - 110
2289064	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406594

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289066	Ammonia-N	91.8	93.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289057	Kjeldahl Nitrogen	90.3	85.7	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406303

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289163	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289065	Total-P	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406251

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289179	O-Phosphate-P	98.1	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P406443

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289326	Fluoride	98.1	98.7	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P406624

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289187	Organic Carbon	94.1	92.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P406258

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289186	Turbidity	3.54	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289003	Chloride	0.957	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P406351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289003	Sulfate	8.93	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289066	Ammonia-N	1.43	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289178	Kjeldahl Nitrogen	5.42	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289057	Kjeldahl Nitrogen	4.03	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406303

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289163	NO2NO3-N	0.976	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289065	Total-P	0.884	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406251

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289179	O-Phosphate-P	2.02	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P406270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289162	Color (true)	0.142	Sample	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P406272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289186	Color (true)	4.56	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P406440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289326	Total Alkalinity	0.388	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P406506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289186	TDS	2.74	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P406443

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289326	Fluoride	0.500	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P406624

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289187	Organic Carbon	1.02	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A108839

Included Lab Sample IDs: 2289164, 2289167

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	99.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A108846

Included Lab Sample IDs: 2289162, 2289165

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

Reference Method: SM 2120 B-2011

Run ID: A108859

Included Lab Sample IDs: 2289162, 2289165

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	99.8	P/P	85 - 115
Color (true)	99.8	100	P/P	85 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A108873

Included Lab Sample IDs: 2289163, 2289166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A108907

Included Lab Sample IDs: 2289162, 2289165

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.8	101	P/P	90 - 110
Sulfate	99.9	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A108946

Included Lab Sample IDs: 2289162, 2289165

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

Reference Method: SM 4500 F-C-2011

Run ID: A108946

Included Lab Sample IDs: 2289162, 2289165

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A109006

Included Lab Sample IDs: 2289163, 2289166

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A109006

Included Lab Sample IDs: 2289163, 2289166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	97.7	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A109023

Included Lab Sample IDs: 2289163, 2289166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.0	94.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109042

Included Lab Sample IDs: 2289163, 2289166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.2	97.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A109054

Included Lab Sample IDs: 2289166

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A109088

Included Lab Sample IDs: 2289163

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.4	97.5	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
EPA 180.1 Rev. 2.0	Turbidity				3.54	
EPA 300.0 Rev. 2.1	Chloride	102	100	101	0.957	
	Sulfate	105	103	101	8.93	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	91.8	93.2		1.43
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	110				5.42
	Kjeldahl Nitrogen	102	90.3	85.7		4.03
EPA 353.2 Rev. 2.0	NO2NO3-N	102	103	102		0.976
EPA 365.1 Rev. 2.0	Total-P	104	104	103		0.884
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	98.1	100		2.02
SM 2120 B-2011	Color (true)	99.1			0.142	
	Color (true)	101			4.56	
SM 2320 B-2011	Total Alkalinity	99.4			0.388	
SM 2540 C-2011	TDS				2.74	
SM 4500 F-C-2011	Fluoride	97.4	98.1	98.7		0.500
SM 5310 B-2011	Organic Carbon	93.4	94.1	92.8		1.02

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2289162, 2289165
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2289162, 2289165
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2289162, 2289165
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2289163, 2289166
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2289163, 2289166
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2289163, 2289166
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2289163, 2289166
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2289164, 2289167
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2289162, 2289165
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2289162, 2289165
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2289162, 2289165
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2289162, 2289165
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2289162, 2289165
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2289163, 2289166

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	11/10/2021			11/10/2021 16:37	Khloe J Berg	2289162, 2289165
EPA 300.0 Rev. 2.1	11/10/2021			11/13/2021 07:56	James L Waggeberby	2289162
	11/10/2021			11/13/2021 08:08	James L Waggeberby	2289165
EPA 350.1 Rev. 2.0	11/10/2021			11/19/2021 11:47	Roberta Tatti	2289163
	11/10/2021			11/19/2021 11:53	Roberta Tatti	2289166
EPA 351.2 Rev. 2.0	11/10/2021	11/22/2021 13:28	Benjamin T. Nordmann	11/23/2021 10:52	Alexandra J Mattheus	2289166
	11/10/2021	11/23/2021 14:23	Benjamin T. Nordmann	11/24/2021 11:50	Alexandra J Mattheus	2289163
EPA 353.2 Rev. 2.0	11/10/2021			11/12/2021 11:09	Beverly Y. Sanders	2289163
	11/10/2021			11/12/2021 11:22	Beverly Y. Sanders	2289166
EPA 365.1 Rev. 2.0	11/10/2021	11/17/2021 16:55	Simonne.V. Calhoun	11/18/2021 15:28	Sarah A Nixon	2289166
	11/10/2021	11/17/2021 16:55	Simonne.V. Calhoun	11/18/2021 15:33	Sarah A Nixon	2289163
EPA 365.1 Rev. 2.0 dissolved	11/10/2021			11/10/2021 14:55	James L Waggeberby	2289164
	11/10/2021			11/10/2021 14:56	James L Waggeberby	2289167
SM 2120 B-2011	11/10/2021			11/10/2021 15:39	Blanca Fach	2289162
	11/10/2021			11/10/2021 15:53	Blanca Fach	2289165
SM 2320 B-2011	11/10/2021			11/17/2021 00:29	Dale L. Simmons	2289162
	11/10/2021			11/17/2021 00:37	Dale L. Simmons	2289165
SM 2540 C-2011	11/10/2021			11/12/2021 16:00	Simonne.V. Calhoun	2289162, 2289165
SM 2540 D-2011	11/10/2021			11/12/2021 16:00	Simonne.V. Calhoun	2289162, 2289165
SM 4500 F-C-2011	11/10/2021			11/17/2021 00:29	Dale L. Simmons	2289162
	11/10/2021			11/17/2021 00:37	Dale L. Simmons	2289165
SM 5310 B-2011	11/10/2021			11/20/2021 02:18	Khloe J Berg	2289163
	11/10/2021			11/20/2021 02:33	Khloe J Berg	2289166