Chemical Analysis Report

SE-DIST-2022-01-14-01

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

Event Description: **Micco Valkaria 2022**
Request ID: **RQ-2022-01-03-54**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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2199 South Rock Road
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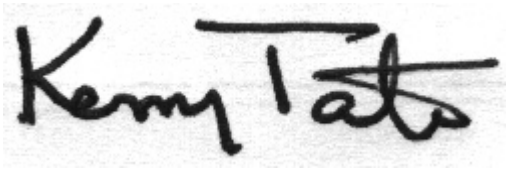
Date Certified: 04-FEB-2022 09:56



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: Goat Creek @ Gradick **Collection Date/Time: 01/13/2022 10:40**

Field ID: G5SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299959	EPA 180.1 Rev. 2.0	Turbidity	5.6	A	NTU	P408563	
	EPA 300.0 Rev. 2.1	Chloride	280		mg Cl/L	P409187	
		Sulfate	33		mg SO4/L	P409193	
	SM 2120 B-2011	Color (true)**	62	A	PCU	P408555	
	SM 2320 B-2011	Total Alkalinity	204		mg CaCO3/L	P408794	
	SM 2540 C-2011	TDS	704		mg/L	P408977	
	SM 2540 D-2011	TSS	3	I	mg/L	P408950	
	SM 4500 F-C-2011	Fluoride	0.25		mg F/L	P408797	
2299961	EPA 350.1 Rev. 2.0	Ammonia-N	0.066		mg N/L	P409150	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P408850	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.21		mg N/L	P408731	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P408654	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P408838	
2299963	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P408552	

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: Micco Ditch @ Micco Rd. **Collection Date/Time: 01/13/2022 12:15**

Field ID: G5SE0048 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299960	EPA 180.1 Rev. 2.0	Turbidity	50		NTU	P408563	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P409187	
		Sulfate	34		mg SO4/L	P409193	
	SM 2120 B-2011	Color (true)**	51	J	PCU	P408555	
	SM 2320 B-2011	Total Alkalinity	228		mg CaCO3/L	P408794	
	SM 2540 C-2011	TDS	526		mg/L	P408977	
	SM 2540 D-2011	TSS	78		mg/L	P408950	
	SM 4500 F-C-2011	Fluoride	0.25		mg F/L	P408797	
2299962	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P409150	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.0		mg N/L	P408965	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.083		mg N/L	P408731	
	EPA 365.1 Rev. 2.0	Total-P	0.80		mg P/L	P408654	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P408838	
2299964	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P408552	

Ref. Method and Comment:
SM 2120 B-2011: The result may be biased high because of matrix interference.
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: P408563

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409187

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409193

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409150

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408850

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408965

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408731

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408654

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408552

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: P408555

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P408794

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P408977

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P408950

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P408797

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P408838

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: P409187

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409193

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409150

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408850

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408965

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408731

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408654

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408552

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

Reference Method: SM 2120 B-2011
Batch ID: P408555

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P408794

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P408797

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P408838

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299916	Chloride	103		P	90 - 110
2299975	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409193

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299916	Sulfate	98.0		P	90 - 110
2299975	Sulfate	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409150

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299976	Ammonia-N	95.8	97.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408850

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299453	Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408965

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300062	Kjeldahl Nitrogen	103	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408731

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299945	NO2NO3-N	97.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299961	Total-P	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408552

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299963	O-Phosphate-P	97.0	96.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P408797

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300414	Fluoride	97.5	96.9	P/P	92 - 107

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P408838

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299901	Organic Carbon	95.4		P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P408563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299959	Turbidity	3.23	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299916	Chloride	1.65	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409193

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299916	Sulfate	0.575	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299976	Ammonia-N	1.08	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408850

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299453	Kjeldahl Nitrogen	1.21	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300062	Kjeldahl Nitrogen	1.75	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299945	NO2NO3-N	0.572	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299961	Total-P	0.302	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408552

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299963	O-Phosphate-P	0.274	Spike	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P408555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299959	Color (true)	2.30	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P408794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300414	Total Alkalinity	4.54	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P408977

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299906	TDS	7.29	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P408797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300414	Fluoride	0.490	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P408838

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299901	Organic Carbon	1.01	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: A109883
Included Lab Sample IDs: 2299963, 2299964

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.4	P/P	90 - 110

Reference Method: SM 2120 B-2011
Run ID: A109885
Included Lab Sample IDs: 2299959, 2299960

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A109889
Included Lab Sample IDs: 2299959, 2299960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	98.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A109944
Included Lab Sample IDs: 2299961, 2299962

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

Reference Method: SM 2320 B-2011
Run ID: A109978
Included Lab Sample IDs: 2299959, 2299960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.3	97.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A109978
Included Lab Sample IDs: 2299959, 2299960

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

Reference Method: SM 5310 B-2011
Run ID: A109998
Included Lab Sample IDs: 2299961, 2299962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110004
Included Lab Sample IDs: 2299962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	105	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110010
Included Lab Sample IDs: 2299961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.2	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A110025
Included Lab Sample IDs: 2299961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.3	96.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A110097
Included Lab Sample IDs: 2299962

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A110102
Included Lab Sample IDs: 2299961, 2299962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	96.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A11040
Included Lab Sample IDs: 2299959, 2299960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	104	103	P/P	90 - 110
Sulfate	99.8	99.2	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	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					3.23	
EPA 300.0 Rev. 2.1	Chloride	103	103	105		1.65	
	Sulfate	98.0	98.0	98.6		0.575	
EPA 350.1 Rev. 2.0	Ammonia-N	97.2	95.8	97.2			1.08
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	103	104			1.21
	Kjeldahl Nitrogen	104	103	106			1.75
EPA 353.2 Rev. 2.0	NO2NO3-N	104	97.0				0.572
EPA 365.1 Rev. 2.0	Total-P	109	108	108			0.302
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	97.0	96.7			0.274
SM 2120 B-2011	Color (true)	102				2.30	
SM 2320 B-2011	Total Alkalinity	98.6				4.54	
SM 2540 C-2011	TDS					7.29	
SM 4500 F-C-2011	Fluoride	97.5	97.5	96.9			0.490
SM 5310 B-2011	Organic Carbon	95.8	95.4				1.01

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2299959, 2299960
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2299959, 2299960
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2299959, 2299960
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2299961, 2299962
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2299961, 2299962
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2299961, 2299962
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2299961, 2299962
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2299963, 2299964
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2299959, 2299960
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2299959, 2299960
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2299959, 2299960
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2299959, 2299960
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2299959, 2299960
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2299961, 2299962

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	01/14/2022			01/14/2022 15:39	Khloe J Berg	2299959, 2299960
EPA 300.0 Rev. 2.1	01/14/2022			01/28/2022 23:35	James L Waggerby	2299959
	01/14/2022			01/28/2022 23:47	James L Waggerby	2299960
EPA 350.1 Rev. 2.0	01/14/2022			01/28/2022 13:43	Ping Hua	2299961
	01/14/2022			01/28/2022 13:44	Ping Hua	2299962
EPA 351.2 Rev. 2.0	01/14/2022	01/24/2022 11:42	Samantha L Bates	01/25/2022 11:41	Alexandra J Mattheus	2299961
	01/14/2022	01/27/2022 10:17	Samantha L Bates	01/28/2022 09:57	Alexandra J Mattheus	2299962
EPA 353.2 Rev. 2.0	01/14/2022			01/20/2022 10:53	Beverly Y. Sanders	2299961
	01/14/2022			01/20/2022 10:55	Beverly Y. Sanders	2299962
EPA 365.1 Rev. 2.0	01/14/2022	01/20/2022 17:50	Simonne.V. Calhoun	01/21/2022 13:40	Shengyu Ding	2299962
	01/14/2022	01/20/2022 17:50	Simonne.V. Calhoun	01/24/2022 15:17	Shengyu Ding	2299961
EPA 365.1 Rev. 2.0 dissolved	01/14/2022			01/14/2022 14:39	Ping Hua	2299963
	01/14/2022			01/14/2022 14:41	Ping Hua	2299964
SM 2120 B-2011	01/14/2022			01/14/2022 16:20	Sarah A Nixon	2299959
	01/14/2022			01/14/2022 16:21	Sarah A Nixon	2299960
SM 2320 B-2011	01/14/2022			01/21/2022 02:10	Dale L. Simmons	2299960
	01/14/2022			01/21/2022 02:24	Dale L. Simmons	2299959
SM 2540 C-2011	01/14/2022			01/18/2022 15:32	Yijie Li	2299959, 2299960
SM 2540 D-2011	01/14/2022			01/18/2022 15:32	Yijie Li	2299959, 2299960
SM 4500 F-C-2011	01/14/2022			01/21/2022 02:10	Dale L. Simmons	2299960
	01/14/2022			01/21/2022 02:24	Dale L. Simmons	2299959
SM 5310 B-2011	01/14/2022			01/21/2022 07:31	Nathaniel J Jones	2299961
	01/14/2022			01/21/2022 07:44	Nathaniel J Jones	2299962