

Chemical Analysis Report

SW-DIST-2018-06-28-01

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

Event Description: **Bear, Lakes, Green**

Request ID: **RQ-2018-06-25-03**

Customer: **SW-DIST**

Project ID: **SMP**

Send Reports to:

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Date Certified: 23-JUL-2018 11:30



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 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: Bear Creek @ Beacon

Collection Date/Time: 06/27/2018 10:15

Field ID: G5SW0102

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003867	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P347704	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P348747	
		Sulfate	27		mg SO4/L	P348748	
	SM 2120 B	Color (true)	22		PCU	P347691	
	SM 2320 B-97	Total Alkalinity	133		mg CaCO3/L	P348098	
	SM 2540 C-97	TDS	355	A	mg/L	P347931	
	SM 2540 D-97	TSS	7	IA	mg/L	P347875	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P348102	
2003869	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P348267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P348136	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P347770	
	EPA 365.1 Rev. 2.0	Total-P	0.091		mg P/L	P347885	
	SM 5310 B-00	Organic Carbon	4.7		mg C/L	P348327	
2003871	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P347708	

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-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Green Lake North

Collection Date/Time: 06/27/2018 11:25

Field ID: G5SW0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003868	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P347704	
	EPA 300.0 Rev. 2.1	Chloride	17	A	mg Cl/L	P348747	
		Sulfate	0.22	IA	mg SO4/L	P348748	
	SM 2120 B	Color (true)	37	A	PCU	P347692	
	SM 2320 B-97	Total Alkalinity	16		mg CaCO3/L	P348098	
	SM 2540 C-97	TDS	60		mg/L	P347931	
	SM 2540 D-97	TSS	2	I	mg/L	P347876	
	SM 4500 F-C-97	Fluoride	0.060	I	mg F/L	P348102	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P348267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.72		mg N/L	P348136	
2003870	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P347770	
	EPA 365.1 Rev. 2.0	Total-P	0.021		mg P/L	P347885	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P348327	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P347708	
	dissolved						

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-97: 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: P347704

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348747

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348748

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348267

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348136

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347770

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347885

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P347708

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

Reference Method: SM 2120 B
Batch ID: P347691

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P347692

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P348098

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

Reference Method: SM 2540 C-97
Batch ID: P347931

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P347875

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P347876

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P348102

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P348327

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: P348747

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348748

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348267

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348136

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.9		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	95.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347885

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P347708

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.4		P	90 - 110

Reference Method: SM 2120 B
Batch ID: P347691

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

Reference Method: SM 2120 B
Batch ID: P347692

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-97
Batch ID: P348098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P348102

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P348327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.9		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003868	Chloride	108		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003868	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003870	Ammonia-N	97.9	96.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348136

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003869	Kjeldahl Nitrogen	94.5	93.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003869	NO2NO3-N	97.5	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347885

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003869	Total-P	91.7	92.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P347708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003772	O-Phosphate-P	91.0	91.4	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P348102

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003915	Fluoride	104	104	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P348327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003829	Organic Carbon	100		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P347704

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003825	Turbidity	6.04	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003868	Chloride	0.534	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003870	Ammonia-N	0.985	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348136

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003869	Kjeldahl Nitrogen	0.961	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003869	NO2NO3-N	1.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003869	Total-P	0.827	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P347708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003772	O-Phosphate-P	0.439	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P347691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003774	Color (true)	3.24	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P347692

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003868	Color (true)	0.268	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P348098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003915	Total Alkalinity	0.730	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P347931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003867	TDS	0.563	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P348102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003915	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P348327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003829	Organic Carbon	0.0241	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A84913

Included Lab Sample IDs: 2003867, 2003868

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115
Color (true)	102	102	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A84917

Included Lab Sample IDs: 2003867, 2003868

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A84918

Included Lab Sample IDs: 2003871, 2003872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	94.5	92.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A84938

Included Lab Sample IDs: 2003869, 2003870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.0	95.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85029

Included Lab Sample IDs: 2003869

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.5	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85030

Included Lab Sample IDs: 2003870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	99.2	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A85091

Included Lab Sample IDs: 2003867, 2003868

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

Reference Method: SM 4500 F-C-97

Run ID: A85091

Included Lab Sample IDs: 2003867, 2003868

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A85134

Included Lab Sample IDs: 2003869, 2003870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.2	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85152

Included Lab Sample IDs: 2003869, 2003870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.4	99.3	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A85182

Included Lab Sample IDs: 2003869, 2003870

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A85337

Included Lab Sample IDs: 2003867, 2003868

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	102	103	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 SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					6.04	
EPA 300.0 Rev. 2.1	Chloride	100		108		0.534	
	Sulfate	100		101			
EPA 350.1 Rev. 2.0	Ammonia-N	98.7		97.9 96.9			0.985
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.9		94.5 93.0			0.961
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	95.0		97.5 98.5			1.02
EPA 365.1 Rev. 2.0	Total-P	99.2		91.7 92.6			0.827
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.4		91.0 91.4			0.439
SM 2120 B	Color (true)	101				3.24	
	Color (true)	102				0.268	
SM 2320 B-97	Total Alkalinity	103				0.730	
SM 2540 C-97	TDS					0.563	
SM 4500 F-C-97	Fluoride	99.8		104 104			0.0
SM 5310 B-00	Organic Carbon	99.9		100			0.0241

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2003867, 2003868
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2003867, 2003868
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2003867, 2003868
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2003869, 2003870
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2003869, 2003870
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2003869, 2003870
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2003869, 2003870
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2003871, 2003872
SM 2120 B / E31780	True Color measured at 450 nm	2003867, 2003868
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2003867, 2003868
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2003867, 2003868
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2003867, 2003868
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2003867, 2003868
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2003869, 2003870

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	06/28/2018			06/28/2018 16:54	William L. Brown IV	2003867, 2003868
EPA 300.0 Rev. 2.1	06/28/2018			07/19/2018 08:51	Lipi Saha	2003868
	06/28/2018			07/19/2018 09:15	Lipi Saha	2003867
EPA 350.1 Rev. 2.0	06/28/2018			07/11/2018 15:50	Ping Hua	2003870
	06/28/2018			07/11/2018 15:54	Ping Hua	2003869
EPA 351.2 Rev. 2.0	06/28/2018	07/10/2018 10:45	Adrian Shelby	07/11/2018 10:19	Joseph Suarez	2003869
	06/28/2018	07/10/2018 10:45	Adrian Shelby	07/11/2018 10:24	Joseph Suarez	2003870
EPA 353.2 Rev. 2.0	06/28/2018			06/29/2018 11:53	Lauren Bottorf	2003869
	06/28/2018			06/29/2018 12:00	Lauren Bottorf	2003870
EPA 365.1 Rev. 2.0	06/28/2018	07/03/2018 10:50	Sima Feizi	07/05/2018 12:24	Beverly Y. Sanders	2003869
	06/28/2018	07/03/2018 10:50	Sima Feizi	07/05/2018 13:06	Beverly Y. Sanders	2003870
EPA 365.1 Rev. 2.0 dissolved	06/28/2018			06/28/2018 14:45	Megan Treadwell	2003871
	06/28/2018			06/28/2018 14:46	Megan Treadwell	2003872
SM 2120 B	06/28/2018			06/28/2018 15:44	Tanya Welborn	2003867
	06/28/2018			06/28/2018 15:50	Tanya Welborn	2003868
SM 2320 B-97	06/28/2018			07/07/2018 09:50	Dale L. Simmons	2003867
	06/28/2018			07/07/2018 10:01	Dale L. Simmons	2003868
SM 2540 C-97	06/28/2018			06/29/2018 16:30	William L. Brown IV	2003867, 2003868
SM 2540 D-97	06/28/2018			06/29/2018 16:30	William L. Brown IV	2003867, 2003868
SM 4500 F-C-97	06/28/2018			07/07/2018 09:50	Dale L. Simmons	2003867
	06/28/2018			07/07/2018 10:01	Dale L. Simmons	2003868
SM 5310 B-00	06/28/2018			07/11/2018 16:05	Megan Treadwell	2003869
	06/28/2018			07/11/2018 17:42	Megan Treadwell	2003870