Chemical Analysis Report

NE-DIST-2016-04-15-01

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

Event Description: **Nassau Mid West**
Request ID: **RQ-2016-04-11-57**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
Jacksonville, FL 32256-7577
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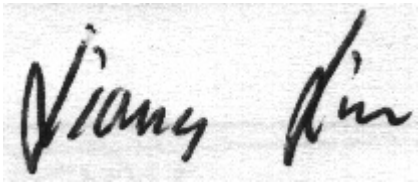
Certified by: Liang Lin, Environmental Administrator

Date Certified: 10-MAY-2016 16:07



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: BRANDY BR. @ 121 **Collection Date/Time: 04/14/2016 09:00**

Field ID: BRANDY BR. @ 121 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789834	EPA 180.1 Rev. 2.0	Turbidity	6.0	A	NTU	P302379	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P302720	
		Sulfate	2.6		mg SO4/L	P302724	
	SM 2120 B	Color (true)	500		PCU	P302345	
	SM 2320 B-97	Total Alkalinity	7.8		mg CaCO3/L	P302739	
	SM 2540 C-97	TDS	104		mg/L	P302953	
	SM 2540 D-97	TSS	4	I	mg/L	P302887	
	SM 4500 F-C-97	Fluoride	0.047	I	mg F/L	P302744	
1789836	EPA 350.1 Rev. 2.0	Ammonia-N	0.20		mg N/L	P303082	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P303328	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P302862	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P302928	
	SM 5310 B-00	Organic Carbon	39		mg C/L	P302948	
1789838	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.094		mg P/L	P302359	

Sample Location: CEDAR CR. @ 125 **Collection Date/Time: 04/14/2016 09:35**

Field ID: CEDAR CR. @ 125 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1789835	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P302379	
	EPA 300.0 Rev. 2.1	Chloride	9.7		mg Cl/L	P302720	
		Sulfate	0.62		mg SO4/L	P302724	
	SM 2120 B	Color (true)	320		PCU	P302345	
	SM 2320 B-97	Total Alkalinity	2.3	I	mg CaCO3/L	P302739	
	SM 2540 C-97	TDS	105		mg/L	P302953	
	SM 2540 D-97	TSS	3	I	mg/L	P302887	
	SM 4500 F-C-97	Fluoride	0.048	I	mg F/L	P302744	
1789837	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P303082	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.84		mg N/L	P303328	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P302862	
	EPA 365.1 Rev. 2.0	Total-P	0.025		mg P/L	P302928	
	SM 5310 B-00	Organic Carbon	32		mg C/L	P302948	
1789839	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.01	I	mg P/L	P302359	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P302379

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302720

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302724

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303082

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303328

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302862

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302928

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302359

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

Reference Method: SM 2120 B
Batch ID: P302345

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P302739

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P302953

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P302887

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P302744

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P302948

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: P302720

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302724

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303082

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303328

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: P302862

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302862

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: P302928

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302359

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.7		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P302739

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

Reference Method: SM 4500 F-C-97
Batch ID: P302744

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.5		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P302948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789835	Chloride	102		P	90 - 110
1789841	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789835	Sulfate	100		P	90 - 110
1789841	Sulfate	101		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789735	Ammonia-N	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789847	Kjeldahl Nitrogen	89.2	97.6	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789836	NO2NO3-N	98.8	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789753	Total-P	94.6	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789858	O-Phosphate-P	96.6	98.3	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P302744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1790152	Fluoride	98.1	98.8	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P302948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1789501	Organic Carbon	96.3	95.4	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P302379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789834	Turbidity	2.17	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302720

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789841	Chloride	0.000161	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P302724

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789841	Sulfate	1.35	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303082

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789735	Ammonia-N	0.582	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P303328

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789847	Kjeldahl Nitrogen	4.49	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P302862

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789836	NO2NO3-N	0.460	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302928

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789753	Total-P	4.41	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P302359

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789858	O-Phosphate-P	1.74	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P302345

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789841	Color (true)	0.00522	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2320 B-97
Batch ID: P302739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1790152	Total Alkalinity	0.711	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P302953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789840	TDS	3.93	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P302887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789840	TSS	8.33	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P302744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1790152	Fluoride	0.516	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P302948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1789501	Organic Carbon	0.675	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: A68902
Included Lab Sample IDs: 1789834, 1789835

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.8	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A68905
Included Lab Sample IDs: 1789838, 1789839

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A68911
Included Lab Sample IDs: 1789834, 1789835

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A68939
Included Lab Sample IDs: 1789834, 1789835

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Chloride	101	100	P/P	90 - 110
Sulfate	99.6	100	P/P	90 - 110
Sulfate	100	98.3	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A69026
Included Lab Sample IDs: 1789834, 1789835

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.7	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A69026
Included Lab Sample IDs: 1789834, 1789835

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A69066
Included Lab Sample IDs: 1789836, 1789837

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

Reference Method: SM 5310 B-00
Run ID: A69096
Included Lab Sample IDs: 1789836, 1789837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	94.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A69108
Included Lab Sample IDs: 1789836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	101	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A69131
Included Lab Sample IDs: 1789837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A69134
Included Lab Sample IDs: 1789836, 1789837

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A69236
Included Lab Sample IDs: 1789836, 1789837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.6	96.7	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					2.17	
EPA 300.0 Rev. 2.1	Chloride	102	99.7	102		0.0001	
	Sulfate	101	101	100		1.35	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	102	102			0.582
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	89.2	97.6			4.49
EPA 353.2 Rev. 2.0	NO2NO3-N	104	98.8	98.3			0.460
EPA 365.1 Rev. 2.0	Total-P	96.6	94.6	99.0			4.41
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.7	96.6	98.3			1.74
SM 2120 B	Color (true)					0.0052	
SM 2320 B-97	Total Alkalinity	102				0.711	
SM 2540 C-97	TDS					3.93	
SM 2540 D-97	TSS					8.33	
SM 4500 F-C-97	Fluoride	95.5	98.1	98.8			0.516
SM 5310 B-00	Organic Carbon	95.2	96.3	95.4			0.675

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1789834, 1789835
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1789834, 1789835
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1789834, 1789835

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1789836, 1789837
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1789836, 1789837
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1789836, 1789837
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1789836, 1789837
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1789838, 1789839
SM 2120 B / E31780	True Color measured at 450 nm	1789834, 1789835
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1789834, 1789835
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1789834, 1789835
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1789834, 1789835
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1789834, 1789835
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1789836, 1789837

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	04/15/2016			04/15/2016 14:58	Sima Feizi	1789834, 1789835
EPA 300.0 Rev. 2.1	04/15/2016			04/21/2016	Julia Storbeck	1789834, 1789835
EPA 350.1 Rev. 2.0	04/15/2016			04/27/2016	Diana M. Turner	1789836, 1789837
EPA 351.2 Rev. 2.0	04/15/2016	05/02/2016	Sofia Elnemr	05/03/2016	Christopher Armour	1789836, 1789837
EPA 353.2 Rev. 2.0	04/15/2016			04/22/2016	Peter D. Kaus	1789836, 1789837
EPA 365.1 Rev. 2.0	04/15/2016	04/26/2016	Christopher Armour	04/26/2016	Lipi Saha	1789836
	04/15/2016	04/26/2016	Christopher Armour	04/27/2016	Lipi Saha	1789837
EPA 365.1 Rev. 2.0 dissolved	04/15/2016			04/15/2016 13:04	Julia Storbeck	1789838
	04/15/2016			04/15/2016 13:05	Julia Storbeck	1789839
SM 2120 B	04/15/2016			04/15/2016 11:49	Rochelle Y Jackson	1789834
	04/15/2016			04/15/2016 11:50	Rochelle Y Jackson	1789835
SM 2320 B-97	04/15/2016			04/21/2016	Dale L. Simmons	1789834, 1789835
SM 2540 C-97	04/15/2016			04/20/2016	Yijie Li	1789834, 1789835
SM 2540 D-97	04/15/2016			04/20/2016	Yijie Li	1789834, 1789835
SM 4500 F-C-97	04/15/2016			04/21/2016	Dale L. Simmons	1789834, 1789835
SM 5310 B-00	04/15/2016			04/25/2016	Sofia Elnemr	1789836, 1789837