

Chemical Analysis Report

CEN-DIST-2016-04-05-01

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

Event Description: **Lady Lake**
Request ID: **RQ-2016-04-04-63**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Mike Linger

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 29-APR-2016 15:06

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

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: Lady Lake

Collection Date/Time: 04/04/2016 10:35

Field ID: G4CE0096

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1786327	EPA 180.1 Rev. 2.0	Turbidity	1.4	A	NTU	P301668	
	EPA 300.0 Rev. 2.1	Chloride	9.2		mg Cl/L	P301852	
		Sulfate	7.2		mg SO4/L	P301855	
	SM 2120 B	Color (true)	12		PCU	P301638	
	SM 2320 B-97	Total Alkalinity	1.3	I	mg CaCO3/L	P301933	
	SM 2540 C-97	TDS	52		mg/L	P302203	
	SM 2540 D-97	TSS	2	I	mg/L	P302208	
	SM 4500 F-C-97	Fluoride	0.058	I	mg F/L	P301936	
1786329	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P301896	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P302335	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301915	
	EPA 365.1 Rev. 2.0	Total-P	0.01		mg P/L	P302043	
	SM 5310 B-00	Organic Carbon	7.5		mg C/L	P301927	
1786331	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301604	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: Lady Lake

Collection Date/Time: 04/04/2016 10:45

Field ID: G4CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1786328	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P301668	
	EPA 300.0 Rev. 2.1	Chloride	9.2		mg Cl/L	P301852	
		Sulfate	7.2		mg SO4/L	P301855	
	SM 2120 B	Color (true)	12		PCU	P301638	
	SM 2320 B-97	Total Alkalinity	1.2	I	mg CaCO3/L	P301933	
	SM 2540 C-97	TDS	43		mg/L	P302203	
	SM 2540 D-97	TSS	2	I	mg/L	P302208	
	SM 4500 F-C-97	Fluoride	0.060	I	mg F/L	P301936	
1786330	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P301896	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P302335	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301915	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P302043	
	SM 5310 B-00	Organic Carbon	7.4		mg C/L	P301927	
1786332	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301604	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

SM 4500 F-C-97: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301668

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301852

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301855

Component	Result	Code	Units
Sulfate	0.20	U	mg SO ₄ /L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301896

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302335

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301915

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302043

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301604

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

Reference Method: SM 2120 B
Batch ID: P301638

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P301933

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

Reference Method: SM 2540 C-97
Batch ID: P302203

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P302208

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P301936

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P301927

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: P301852

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301855

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301896

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302335

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P302335

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P301915

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P302043

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.1		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P301604

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

Reference Method: SM 2320 B-97
 Batch ID: P301933

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

Reference Method: SM 4500 F-C-97
 Batch ID: P301936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.8		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P301927

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P301852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786383	Chloride	99.8		P	90 - 110
1786431	Chloride	98.7		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P301855

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786383	Sulfate	98.9		P	90 - 110
1786431	Sulfate	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P301896

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786329	Ammonia-N	100	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P302335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786069	Kjeldahl Nitrogen	88.9	84.8	F/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P301915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786340	NO2NO3-N	93.0	92.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P302043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786246	Total-P	100	95.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P301604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1786062	O-Phosphate-P	101	103	P/P	90 - 110

Reference Method: SM 5310 B-00
 Batch ID: P301927

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1785898	Organic Carbon	92.6	94.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P301668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786327	Turbidity	1.40	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786383	Chloride	0.0281	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786383	Sulfate	0.595	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786329	Ammonia-N	1.88	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P302335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786069	Kjeldahl Nitrogen	2.43	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786340	NO2NO3-N	0.288	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P302043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786246	Total-P	3.94	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786062	O-Phosphate-P	1.20	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P301638

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786339	Color (true)	1.91	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P301933

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786872	Total Alkalinity	0.606	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P302203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786055	TDS	2.64	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P301936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1786872	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P301927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1785898	Organic Carbon	1.77	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: EPA 300.0 Rev. 2.1
Run ID: A68637
Included Lab Sample IDs: 1786327, 1786328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	102	P/P	90 - 110
Sulfate	101	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A68657
Included Lab Sample IDs: 1786331, 1786332

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.6	98.2	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A68676
Included Lab Sample IDs: 1786327, 1786328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.3	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A68679
Included Lab Sample IDs: 1786327, 1786328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A68756
Included Lab Sample IDs: 1786329, 1786330

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A68762
Included Lab Sample IDs: 1786329, 1786330

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	95.5	94.5	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A68767
Included Lab Sample IDs: 1786329, 1786330

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	97.0	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A68768
Included Lab Sample IDs: 1786327, 1786328

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

Reference Method: SM 4500 F-C-97
Run ID: A68768
Included Lab Sample IDs: 1786327, 1786328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A68849
Included Lab Sample IDs: 1786329, 1786330

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.5	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A68947
Included Lab Sample IDs: 1786329, 1786330

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.9	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

* 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				1.40	
EPA 300.0 Rev. 2.1	Chloride	101	99.8	98.7	0.0281	
	Sulfate	99.3	98.9	97.8	0.595	
EPA 350.1 Rev. 2.0	Ammonia-N	99.1	100	98.2		1.88
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.7	88.9	84.8		2.43
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	95.5	93.0	92.5		0.288
EPA 365.1 Rev. 2.0	Total-P	96.1	100	95.3		3.94
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	101	103		1.20
SM 2120 B	Color (true)				1.91	
SM 2320 B-97	Total Alkalinity	102			0.606	
SM 2540 C-97	TDS				2.64	
SM 4500 F-C-97	Fluoride	97.8				0.0
SM 5310 B-00	Organic Carbon	93.5	92.6	94.3		1.77

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1786327, 1786328
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1786327, 1786328
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1786327, 1786328
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1786329, 1786330
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1786329, 1786330
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1786329, 1786330
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1786329, 1786330
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1786331, 1786332
SM 2120 B / E31780	True Color measured at 450 nm	1786327, 1786328
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1786327, 1786328
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1786327, 1786328
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1786327, 1786328
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1786327, 1786328
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1786329, 1786330

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	04/05/2016			04/05/2016 18:39	Sima Feizi	1786327, 1786328
EPA 300.0 Rev. 2.1	04/05/2016			04/07/2016	Julia Storbeck	1786327, 1786328
EPA 350.1 Rev. 2.0	04/05/2016			04/07/2016	Diana M. Turner	1786329, 1786330
EPA 351.2 Rev. 2.0	04/05/2016	04/15/2016	Sofia Elnemr	04/18/2016	Virginia P. Brown	1786329, 1786330
EPA 353.2 Rev. 2.0	04/05/2016			04/08/2016	Diana M. Turner	1786329, 1786330
EPA 365.1 Rev. 2.0	04/05/2016	04/12/2016	Christopher Armour	04/13/2016	Lipi Saha	1786329, 1786330
EPA 365.1 Rev. 2.0 dissolved	04/05/2016			04/05/2016 15:20	Ping Hua	1786331, 1786332
SM 2120 B	04/05/2016			04/05/2016 17:27	Blanca Fach	1786327
	04/05/2016			04/05/2016 17:28	Blanca Fach	1786328
SM 2320 B-97	04/05/2016			04/08/2016	Dale L. Simmons	1786327, 1786328
SM 2540 C-97	04/05/2016			04/07/2016	Yijie Li	1786327, 1786328
SM 2540 D-97	04/05/2016			04/07/2016	Yijie Li	1786327, 1786328
SM 4500 F-C-97	04/05/2016			04/08/2016	Dale L. Simmons	1786327, 1786328
SM 5310 B-00	04/05/2016			04/07/2016	Sofia Elnemr	1786329, 1786330