

Chemical Analysis Report

SO-DIST-2016-04-29-01

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

Event Description: **SMP: Everglades Lakes**

Request ID: **RQ-2016-04-25-06**

Customer: **SO-DIST**

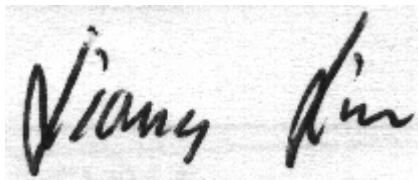
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901
Attn: Ben Paswater

For additional information please contact
Timothy W. Fitzpatrick
Liang-Tsair Lin, Ph.D.
Colin Wright, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 27-MAY-2016 17:06

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

NON-CONFORMANCE REPORT INCLUDED

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: 3289X West Lake @ Center

Collection Date/Time: 04/27/2016 11:10

Field ID: G5SD042716-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1794240	EPA 180.1 Rev. 2.0	Turbidity	13	A	NTU	P303247	
	SM 2320 B-97	Total Alkalinity	163		mg CaCO3/L	P303817	
	SM 2540 D-97	TSS	39		mg/L	P303794	
	SM 4500 F-C-97	Fluoride	0.56		mg F/L	P303822	
1794243	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P303862	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	4.1		mg N/L	P304309	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P303631	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P304054	
	SM 5310 B-00	Organic Carbon	51		mg C/L	P303956	

Ref. Method and Comment:

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

SM 5310 B-00: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: 3289X Long Lake North

Collection Date/Time: 04/27/2016 10:40

Field ID: G5SD042716-2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1794241	EPA 180.1 Rev. 2.0	Turbidity	17	Q	NTU	P303247	
	SM 2320 B-97	Total Alkalinity	152		mg CaCO3/L	P303817	
	SM 2540 D-97	TSS	35		mg/L	P303794	
	SM 4500 F-C-97	Fluoride	0.56		mg F/L	P303822	
1794244	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P303862	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	4.2		mg N/L	P304309	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P303631	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P304054	
	SM 5310 B-00	Organic Carbon	49		mg C/L	P303956	
1794247	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	IQJ	mg P/L	P303298	MS

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired upon receipt.

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample. The result was confirmed on 05/25/2016.

SM 5310 B-00: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired prior to or upon receipt. Refer to the narrative for an explanation of QC Codes.

Sample Location: DUP 3289X Long Lake North

Collection Date/Time: 04/27/2016 10:45

Field ID: G5SD042716-3

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1794242	EPA 180.1 Rev. 2.0	Turbidity	16	Q	NTU	P303247	
	SM 2320 B-97	Total Alkalinity	150		mg CaCO3/L	P303817	
	SM 2540 D-97	TSS	27		mg/L	P303794	
	SM 4500 F-C-97	Fluoride	0.56		mg F/L	P303822	
1794245	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P303862	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	4.0		mg N/L	P304309	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P303631	
	EPA 365.1 Rev. 2.0	Total-P	0.099		mg P/L	P304054	
	SM 5310 B-00	Organic Carbon	51		mg C/L	P303956	

Field ID: G5SD042716-3

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1794248	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	IQ	mg P/L	P303298	MS

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired upon receipt.

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample. The result was confirmed on 05/25/2016.

SM 5310 B-00: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired prior to or upon receipt.

Non-Conformance Report

NCR ID: 5842

Event(s)

SO-DIST-2016-04-29-01

Job(s)

NCR Type: SHIPPING/RECEIVING

Sample(s)

NCR Category: Samples arrived late

Test(s)

Observation: FedEx code: 8099 4719 4947
Samples arrived 1 day late.

Resolution: Biology and Chemistry supervisors were notified by phone and email. The following samples were analyzed but expired and results are qualified:
Turbidity: Sample IDs 1794241, 1794242.
Orthophosphate: Sample IDs 1794247, 1794248.

Authorised by/Date: Daisys Matthews 5/27/2016

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry Tim Fitzpatrick (850) 245-8085
Biology Cheryl Swanson (850) 245-8177

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P303247

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P303862

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P304309

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P303631

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P303631

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P304054

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P303298

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

Reference Method: SM 2320 B-97
Batch ID: P303817

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

Reference Method: SM 2540 D-97
Batch ID: P303794

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P303822

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P303956

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303862

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: P304309

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: P304309

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: P303631

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P304054

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P303298

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

Reference Method: SM 2320 B-97
Batch ID: P303817

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P303822

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.5		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P303956

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1794243	Ammonia-N	103	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P304309

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P304309

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793678	Kjeldahl Nitrogen	93.6	93.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P303631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793823	NO2NO3-N	98.3	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P304054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793837	Total-P	101	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P303298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1794247	O-Phosphate-P	65.9	64.7	F/F	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P303822

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793834	Fluoride	97.5	98.2	P/P	91 - 105

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P303247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1794240	Turbidity	1.53	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1794243	Ammonia-N	0.0843	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P304309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793678	Kjeldahl Nitrogen	0.230	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P303631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793823	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P304054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793837	Total-P	1.56	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P303298

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1794247	O-Phosphate-P	1.73	Spike	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P303817

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793834	Total Alkalinity	0.401	Sample	P	0 - 4.8

Reference Method: SM 4500 F-C-97
 Batch ID: P303822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793834	Fluoride	0.483	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P303956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1794244	Organic Carbon	1.57	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 180.1 Rev. 2.0
 Run ID: A69183
 Included Lab Sample IDs: 1794240, 1794241, 1794242

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	102	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A69192

Included Lab Sample IDs: 1794247, 1794248

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.3	P/P	90 - 110
O-Phosphate-P	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A69298

Included Lab Sample IDs: 1794243, 1794244, 1794245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A69345

Included Lab Sample IDs: 1794240, 1794241, 1794242

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.9	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A69345

Included Lab Sample IDs: 1794240, 1794241, 1794242

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A69351

Included Lab Sample IDs: 1794243, 1794244, 1794245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.3	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A69382

Included Lab Sample IDs: 1794243, 1794244, 1794245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	94.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A69432

Included Lab Sample IDs: 1794244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A69459

Included Lab Sample IDs: 1794243, 1794245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A69525

Included Lab Sample IDs: 1794243, 1794244, 1794245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.5	95.1	P/P	90 - 110
Kjeldahl Nitrogen	95.1	94.4	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				1.53	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	103 103			0.0843
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	93.6 93.9			0.230
EPA 353.2 Rev. 2.0	NO2NO3-N	101	98.3 99.3			1.01
EPA 365.1 Rev. 2.0	Total-P	99.9	101 103			1.56
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	65.9 64.7			1.73
SM 2320 B-97	Total Alkalinity	101			0.401	
SM 4500 F-C-97	Fluoride	96.5	97.5 98.2			0.483
SM 5310 B-00	Organic Carbon	100				1.57

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1794240, 1794241, 1794242
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1794243, 1794244, 1794245
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1794243, 1794244, 1794245
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1794243, 1794244, 1794245
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1794243, 1794244, 1794245
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1794247, 1794248
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1794240, 1794241, 1794242
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1794240, 1794241, 1794242
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1794240, 1794241, 1794242
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1794243, 1794244, 1794245

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	04/29/2016			04/29/2016 10:58	Sima Feizi	1794240
	04/29/2016			04/29/2016 11:00	Sima Feizi	1794241
	04/29/2016			04/29/2016 11:03	Sima Feizi	1794242
EPA 350.1 Rev. 2.0	04/29/2016			05/09/2016	Diana M. Turner	1794243, 1794244, 1794245
EPA 351.2 Rev. 2.0	04/29/2016	05/13/2016	Christopher Armour	05/16/2016	Christopher Armour	1794243, 1794244, 1794245
EPA 353.2 Rev. 2.0	04/29/2016			05/05/2016	Peter D. Kaus	1794243, 1794244, 1794245
EPA 365.1 Rev. 2.0	04/29/2016	05/11/2016	Vijayalakshmi Reddy	05/11/2016	Lipi Saha	1794244
	04/29/2016	05/11/2016	Vijayalakshmi Reddy	05/12/2016	Rochelle Y Jackson	1794243, 1794245
EPA 365.1 Rev. 2.0 dissolved	04/29/2016			04/29/2016 15:41	Julia Storbeck	1794247
	04/29/2016			04/29/2016 16:24	Julia Storbeck	1794248
SM 2320 B-97	04/29/2016			05/07/2016	Dale L. Simmons	1794240, 1794241, 1794242
SM 2540 D-97	04/29/2016			05/03/2016	Yijie Li	1794240, 1794241, 1794242
SM 4500 F-C-97	04/29/2016			05/07/2016	Dale L. Simmons	1794240, 1794241, 1794242
SM 5310 B-00	04/29/2016			05/10/2016	Diana M. Turner	1794243, 1794244, 1794245