

Chemical Analysis Report

SW-DIST-2016-10-11-01

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

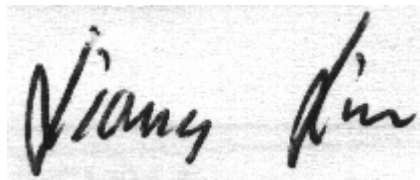
Event Description: **Sring Bayou**
Request ID: **RQ-2016-10-10-23**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Judy Ashton

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 02-NOV-2016 15:07

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: Kreamer Bayou

Collection Date/Time: 10/10/2016 11:05

Field ID: G5SW0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1839568	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P312974	
	SM 2320 B-97	Total Alkalinity	98		mg CaCO3/L	P313517	
	SM 2540 D-97	TSS	3	U	mg/L	P313838	
	SM 4500 F-C-97	Fluoride	0.60		mg F/L	P313520	
1839572	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P313605	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75		mg N/L	P313634	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P313638	
	EPA 365.1 Rev. 2.0	Total-P	0.056		mg P/L	P313769	
	SM 5310 B-00	Organic Carbon	9.3		mg C/L	P313094	
1839576	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P312918	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Spring Bayou

Collection Date/Time: 10/10/2016 11:30

Field ID: G5SW0078

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1839569	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P312974	
	SM 2320 B-97	Total Alkalinity	99		mg CaCO3/L	P313517	
	SM 2540 D-97	TSS	4	I	mg/L	P313838	
	SM 4500 F-C-97	Fluoride	0.53		mg F/L	P313520	
1839573	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P313605	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P313634	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P313638	
	EPA 365.1 Rev. 2.0	Total-P	0.059		mg P/L	P313769	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P313094	
1839577	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P312918	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: G5SW0125

Collection Date/Time: 10/10/2016 11:46

Field ID: G5SW0125

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1839570	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P312974	
	SM 2320 B-97	Total Alkalinity	101		mg CaCO3/L	P313517	
	SM 2540 D-97	TSS	6	I	mg/L	P313838	
	SM 4500 F-C-97	Fluoride	0.48		mg F/L	P313520	
1839574	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P313605	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.72		mg N/L	P313634	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P313638	
	EPA 365.1 Rev. 2.0	Total-P	0.064		mg P/L	P313769	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P313094	
1839578	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P312918	

Field ID: G5SW0125

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment: SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.							

Sample Location: G5SW0124

Collection Date/Time: 10/10/2016 12:05

Field ID: G5SW0124

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1839571	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P312974	
	SM 2320 B-97	Total Alkalinity	101		mg CaCO3/L	P313517	
	SM 2540 D-97	TSS	4	I	mg/L	P313838	
	SM 4500 F-C-97	Fluoride	0.52		mg F/L	P313520	
1839575	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P313605	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P313634	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P313638	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P313769	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P313094	
1839579	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.016		mg P/L	P312918	
Ref. Method and Comment: 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: P312974

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P313605

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P313634

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P313638

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P313769

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P312918

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

Reference Method: SM 2320 B-97
Batch ID: P313517

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

Reference Method: SM 2540 D-97
Batch ID: P313838

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P313520

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P313094

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: P313605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	106		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P313634

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: P313638

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313769

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313769

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P312918

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.5		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P313517

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P313520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P313094

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839190	Ammonia-N	99.8	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P313634

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839574	Kjeldahl Nitrogen	103	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313638

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839572	NO2NO3-N	106	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313769

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P313769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1838560	Total-P	100	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P312918

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1839578	O-Phosphate-P	95.7	97.2	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P313520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1840427	Fluoride	97.1	99.1	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P313094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1838561	Organic Carbon	97.0	98.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P312974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839551	Turbidity	6.06	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P313605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839190	Ammonia-N	2.37	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P313634

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839574	Kjeldahl Nitrogen	1.15	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P313638

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839572	NO2NO3-N	1.38	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P313769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1838560	Total-P	0.601	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P312918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1839578	O-Phosphate-P	1.45	Spike	P	0 - 20

Reference Method: SM 2320 B-97

Batch ID: P313517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840427	Total Alkalinity	0.169	Sample	P	0 - 4.8

Reference Method: SM 4500 F-C-97

Batch ID: P313520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1840427	Fluoride	1.40	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00

Batch ID: P313094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1838561	Organic Carbon	1.63	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 365.1 Rev. 2.0 dissolved

Run ID: A72157

Included Lab Sample IDs: 1839576, 1839577, 1839578, 1839579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.6	100	P/P	90 - 110
O-Phosphate-P	99.7	99.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A72177

Included Lab Sample IDs: 1839568, 1839569, 1839570, 1839571

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	100	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A72203

Included Lab Sample IDs: 1839572, 1839573, 1839574, 1839575

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

Reference Method: SM 2320 B-97

Run ID: A72322

Included Lab Sample IDs: 1839568, 1839569, 1839570, 1839571

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	103	P/P	90 - 110
Total Alkalinity	103	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A72322

Included Lab Sample IDs: 1839568, 1839569, 1839570, 1839571

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A72351

Included Lab Sample IDs: 1839572, 1839573, 1839574, 1839575

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A72364

Included Lab Sample IDs: 1839572, 1839573, 1839574, 1839575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A72440

Included Lab Sample IDs: 1839572, 1839573, 1839574, 1839575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A72456

Included Lab Sample IDs: 1839572, 1839573, 1839574, 1839575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	104	P/P	90 - 110
Kjeldahl Nitrogen	108	100	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	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					6.06	
EPA 350.1 Rev. 2.0	Ammonia-N	106	99.8	104			2.37
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	103	101			1.15
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	105	106	105			1.38
EPA 365.1 Rev. 2.0	Total-P	103	100	99.9			0.601
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5	95.7	97.2			1.45
SM 2320 B-97	Total Alkalinity	103				0.169	
SM 4500 F-C-97	Fluoride	98.7	97.1	99.1			1.40
SM 5310 B-00	Organic Carbon	98.8	97.0	98.9			1.63

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1839568, 1839569, 1839570, 1839571
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1839572, 1839573, 1839574, 1839575
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1839572, 1839573, 1839574, 1839575
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1839572, 1839573, 1839574, 1839575
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1839572, 1839573, 1839574, 1839575
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1839576, 1839577, 1839578, 1839579
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1839568, 1839569, 1839570, 1839571
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1839568, 1839569, 1839570, 1839571
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1839568, 1839569, 1839570, 1839571
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1839572, 1839573, 1839574, 1839575

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	10/11/2016			10/11/2016 15:51	Blanca Fach	1839568, 1839569, 1839570, 1839571
EPA 350.1 Rev. 2.0	10/11/2016			10/20/2016	Sofia Elnemr	1839572, 1839573, 1839574, 1839575
EPA 351.2 Rev. 2.0	10/11/2016	10/21/2016	Adrian Shelby	10/27/2016	Christopher Armour	1839572, 1839573, 1839574, 1839575
EPA 353.2 Rev. 2.0	10/11/2016			10/21/2016	Beverly Y. Sanders	1839572, 1839573, 1839574, 1839575
EPA 365.1 Rev. 2.0	10/11/2016	10/25/2016	Vijayalakshmi Reddy	10/26/2016	Lipi Saha	1839572, 1839573, 1839574, 1839575
EPA 365.1 Rev. 2.0 dissolved	10/11/2016			10/11/2016 14:33	Julia Storbeck	1839578
	10/11/2016			10/11/2016 15:16	Julia Storbeck	1839576, 1839577
	10/11/2016			10/11/2016 15:17	Julia Storbeck	1839579
SM 2320 B-97	10/11/2016			10/19/2016	Dale L. Simmons	1839568, 1839569, 1839570, 1839571
SM 2540 D-97	10/11/2016			10/15/2016	Yijie Li	1839568, 1839569, 1839570, 1839571
SM 4500 F-C-97	10/11/2016			10/19/2016	Dale L. Simmons	1839568, 1839569, 1839570, 1839571
SM 5310 B-00	10/11/2016			10/13/2016	Julie Michelle Frank	1839572, 1839573, 1839574, 1839575