Chemical Analysis Report

SW-DIST-2016-03-25-01

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

Event Description: **1382H, 1382I, 8043**
Request ID: **RQ-2016-03-21-53**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
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13051 N. Telecom Parkway
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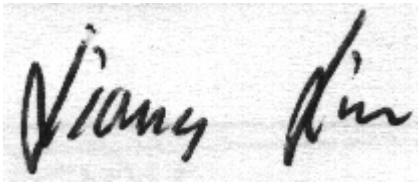
Certified by: Liang Lin, Environmental Administrator

Date Certified: 14-APR-2016 16:53



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: G5SW0120 **Collection Date/Time: 03/24/2016 11:40**

Field ID: G5SW0120 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1783693	EPA 180.1 Rev. 2.0	Turbidity	0.85		NTU	P301069	
	SM 2320 B-97	Total Alkalinity	153		mg CaCO3/L	P301444	
	SM 2540 D-97	TSS	3	U	mg/L	P301475	
	SM 4500 F-C-97	Fluoride	0.50		mg F/L	P301447	
1783696	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P301371	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.52		mg N/L	P301514	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.078		mg N/L	P301160	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P301390	
	SM 5310 B-00	Organic Carbon	4.9		mg C/L	P301427	
1783699	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301075	

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

Sample Location: G5SW0020 **Collection Date/Time: 03/24/2016 13:10**

Field ID: G5SW0020 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1783694	EPA 180.1 Rev. 2.0	Turbidity	1.4	A	NTU	P301070	
	SM 2320 B-97	Total Alkalinity	157	A	mg CaCO3/L	P301444	
	SM 2540 D-97	TSS	4	I	mg/L	P301475	
	SM 4500 F-C-97	Fluoride	0.38		mg F/L	P301447	
1783697	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P301371	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48		mg N/L	P301514	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.21		mg N/L	P301160	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P301390	
	SM 5310 B-00	Organic Carbon	3.7		mg C/L	P301427	
1783700	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301075	

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

Sample Location: G5SW0017 **Collection Date/Time: 03/24/2016 13:35**

Field ID: G5SW0017 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1783695	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P301070	
	SM 2320 B-97	Total Alkalinity	156		mg CaCO3/L	P301444	
	SM 2540 D-97	TSS	3	I	mg/L	P301475	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P301447	
1783698	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P301371	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29	I	mg N/L	P301514	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.31		mg N/L	P301160	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P301460	
	SM 5310 B-00	Organic Carbon	3.0		mg C/L	P301427	
1783701	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P301075	

Field ID: G5SW0017 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301069

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301070

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301371

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301514

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301160

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301390

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301460

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301075

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P301444

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

Reference Method: SM 2540 D-97
Batch ID: P301475

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P301447

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P301427

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: P301371

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301514

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301160

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301390

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301460

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301460

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301075

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

Reference Method: SM 2320 B-97
Batch ID: P301444

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P301447

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.8		P	94 - 108

Reference Method: SM 5310 B-00
Batch ID: P301427

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783375	Ammonia-N	105	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301514

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783091	Kjeldahl Nitrogen	108	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301160

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783375	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301390

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301390

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783091	Total-P	95.0	94.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783698	Total-P	101	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301075

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783561	O-Phosphate-P	98.6	99.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P301447

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783694	Fluoride	95.9	96.6	P/P	94 - 107

Reference Method: SM 5310 B-00
Batch ID: P301427

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783094	Organic Carbon	92.7	94.1	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783557	Turbidity	4.46	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P301070

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783694	Turbidity	7.30	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783375	Ammonia-N	0.671	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301514

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783091	Kjeldahl Nitrogen	3.07	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301160

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783375	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301390

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783091	Total-P	0.226	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301460

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783698	Total-P	2.29	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P301075

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783561	O-Phosphate-P	1.13	Spike	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P301444

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783694	Total Alkalinity	0.418	Sample	P	0 - 4.8

Reference Method: SM 4500 F-C-97
Batch ID: P301447

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783694	Fluoride	0.516	Spike	P	0 - 3.7

Reference Method: SM 5310 B-00
Batch ID: P301427

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783094	Organic Carbon	1.20	Spike	P	0 - 20

Quality Assurance Report
Precision

* 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: A68445
Included Lab Sample IDs: 1783693, 1783694, 1783695

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A68446
Included Lab Sample IDs: 1783699, 1783700, 1783701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.7	99.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A68481
Included Lab Sample IDs: 1783696, 1783697, 1783698

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A68562
Included Lab Sample IDs: 1783696, 1783697, 1783698

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

Reference Method: SM 5310 B-00
Run ID: A68589
Included Lab Sample IDs: 1783696, 1783697, 1783698

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.3	93.2	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A68600
Included Lab Sample IDs: 1783693, 1783694, 1783695

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A68600
Included Lab Sample IDs: 1783693, 1783694, 1783695

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.0	99.5	P/P	90 - 110
Fluoride	99.5	98.5	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A68686
Included Lab Sample IDs: 1783696, 1783697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	99.0	P/P	90 - 110
Total-P	99.0	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A68692
Included Lab Sample IDs: 1783698

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A68715
Included Lab Sample IDs: 1783696, 1783697, 1783698

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.0	96.6	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					4.46	
	Turbidity					7.30	
EPA 350.1 Rev. 2.0	Ammonia-N	100	105	106			0.671
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	108	104			3.07
EPA 353.2 Rev. 2.0	NO2NO3-N	100	101	100			0.487
EPA 365.1 Rev. 2.0	Total-P	99.8	95.0	94.8			0.226
	Total-P	105	101	103			2.29
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	98.6	99.8			1.13
SM 2320 B-97	Total Alkalinity	103				0.418	
SM 4500 F-C-97	Fluoride	97.8	95.9	96.6			0.516
SM 5310 B-00	Organic Carbon	96.6	92.7	94.1			1.20

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1783693, 1783694, 1783695
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1783696, 1783697, 1783698
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1783696, 1783697, 1783698
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1783696, 1783697, 1783698

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1783696, 1783697, 1783698
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1783699, 1783700, 1783701
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1783693, 1783694, 1783695
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1783693, 1783694, 1783695
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1783693, 1783694, 1783695
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1783696, 1783697, 1783698

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	03/25/2016			03/25/2016 14:31	Sima Feizi	1783693, 1783694, 1783695
EPA 350.1 Rev. 2.0	03/25/2016			03/31/2016	Diana M. Turner	1783696, 1783697, 1783698
EPA 351.2 Rev. 2.0	03/25/2016	04/04/2016	Sofia Elnemr	04/06/2016	Christopher Armour	1783696, 1783697, 1783698
EPA 353.2 Rev. 2.0	03/25/2016			03/28/2016	Virginia P. Brown	1783696, 1783697, 1783698
EPA 365.1 Rev. 2.0	03/25/2016	04/01/2016	Christopher Armour	04/06/2016	Rochelle Y Jackson	1783696, 1783697
	03/25/2016	04/04/2016	Christopher Armour	04/06/2016	Rochelle Y Jackson	1783698
EPA 365.1 Rev. 2.0 dissolved	03/25/2016			03/25/2016 15:43	Ping Hua	1783699, 1783700
	03/25/2016			03/25/2016 15:44	Ping Hua	1783701
SM 2320 B-97	03/25/2016			03/30/2016	Dale L. Simmons	1783693, 1783694, 1783695
SM 2540 D-97	03/25/2016			03/29/2016	Yijie Li	1783693, 1783694, 1783695
SM 4500 F-C-97	03/25/2016			03/30/2016	Dale L. Simmons	1783693, 1783694, 1783695
SM 5310 B-00	03/25/2016			04/01/2016	Sofia Elnemr	1783696, 1783697, 1783698