Chemical Analysis Report

WQAP-2016-05-12-02

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

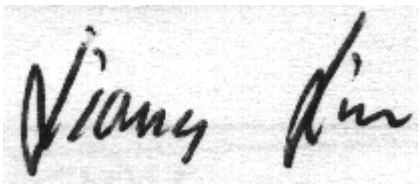
Event Description: **Big Cypress Branch, Coon Creek and Soapstone Branch**
Request ID: **RQ-2016-04-11-34**
Customer: **WQAP**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Katrina Sanders

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: 03-JUN-2016 10:25



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: COON CREEK 100 METERS UPSTREAM OF CR 69 **Collection Date/Time: 05/12/2016 11:15**

Field ID: G2WA0005 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1798532	EPA 180.1 Rev. 2.0	Turbidity	2.1	A	NTU	P304283	
	EPA 300.0 Rev. 2.1	Chloride	6.4		mg Cl/L	P304795	
	SM 2120 B	Color (true)	110		PCU	P304285	
	SM 2320 B-97	Total Alkalinity	1.1	I	mg CaCO3/L	P304848	
	SM 2540 C-97	TDS	32		mg/L	P304882	
	SM 2540 D-97	TSS	2	U	mg/L	P304864	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P305056	
1798534	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P304943	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39		mg N/L	P304969	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.34		mg N/L	P304651	
	EPA 365.1 Rev. 2.0	Total-P	0.37		mg P/L	P305094	
	SM 5310 B-00	Organic Carbon	7.6		mg C/L	P304963	
1798536	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P304254	

Sample Location: BIG CYPRESS BRANCH 100 METERS UPSTREAM OF 67 **Collection Date/Time: 05/12/2016 14:05**

Field ID: G1WA0031 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1798533	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P304283	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P304795	
	SM 2120 B	Color (true)	58		PCU	P304285	
	SM 2320 B-97	Total Alkalinity	85		mg CaCO3/L	P304848	
	SM 2540 C-97	TDS	372	A	mg/L	P304882	
	SM 2540 D-97	TSS	18	A	mg/L	P304864	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P305056	
1798535	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P304943	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P304969	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P304651	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P305094	
	SM 5310 B-00	Organic Carbon	9.7		mg C/L	P304963	
1798537	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P304254	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P304283

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: P304795

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P304943

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P304969

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P304651

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P305094

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P304254

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

Reference Method: SM 2120 B
Batch ID: P304285

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P304848

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

Reference Method: SM 2540 C-97
Batch ID: P304882

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P304864

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P305056

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P304963

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: P304795

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P304943

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P304969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P304651

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P305094

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: P304254

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P304254

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

Reference Method: SM 2320 B-97
Batch ID: P304848

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

Reference Method: SM 4500 F-C-97
Batch ID: P305056

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

Reference Method: SM 5310 B-00
Batch ID: P304963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.2		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P304795

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1798556	Chloride	98.7		P	90 - 110
1798764	Chloride	99.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P304943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1798413	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P304969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1798434	Kjeldahl Nitrogen	94.5	97.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P304651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1798516	NO2NO3-N	100	101	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P305094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1798413	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P304254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1798560	O-Phosphate-P	97.3	98.6	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P305056

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1798546	Fluoride	96.4	97.3	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P304963

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1798266	Organic Carbon	97.1	96.2	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P304283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798532	Turbidity	1.93	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P304795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798764	Chloride	0.152	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P304943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798413	Ammonia-N	1.09	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P304969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798434	Kjeldahl Nitrogen	1.58	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P304651

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798516	NO2NO3-N	0.404	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P305094

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798413	Total-P	0.455	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P304254

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798560	O-Phosphate-P	1.33	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P304285

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798546	Color (true)	0.382	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P304848

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798546	Total Alkalinity	0.220	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P304882

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798533	TDS	1.08	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P304864

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798533	TSS	6.74	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P305056

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798546	Fluoride	0.473	Spike	P	0 - 3.0

Quality Assurance Report
Precision

Reference Method: SM 5310 B-00
Batch ID: P304963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1798266	Organic Carbon	0.845	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: A69464
Included Lab Sample IDs: 1798536, 1798537

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A69470
Included Lab Sample IDs: 1798532, 1798533

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

Reference Method: SM 2120 B
Run ID: A69471
Included Lab Sample IDs: 1798532, 1798533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A69587
Included Lab Sample IDs: 1798534, 1798535

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A69620
Included Lab Sample IDs: 1798532, 1798533

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

Reference Method: SM 2320 B-97
Run ID: A69641
Included Lab Sample IDs: 1798532, 1798533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	98.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A69674
Included Lab Sample IDs: 1798534, 1798535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.9	100	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A69677
Included Lab Sample IDs: 1798534, 1798535

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

Reference Method: SM 4500 F-C-97
Run ID: A69701
Included Lab Sample IDs: 1798532, 1798533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A69710
Included Lab Sample IDs: 1798534, 1798535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.6	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A69761
Included Lab Sample IDs: 1798534, 1798535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.6	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		Precision		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					1.93	
EPA 300.0 Rev. 2.1	Chloride	99.2	99.3	98.7		0.152	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	101	102			1.09
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	94.5	97.1			1.58
EPA 353.2 Rev. 2.0	NO2NO3-N	102	100	101			0.404
EPA 365.1 Rev. 2.0	Total-P	103	103	104			0.455
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	98.6	97.3			1.33
SM 2120 B	Color (true)					0.382	
SM 2320 B-97	Total Alkalinity	102				0.220	
SM 2540 C-97	TDS					1.08	
SM 2540 D-97	TSS					6.74	

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 4500 F-C-97	Fluoride	96.5	96.4	97.3			0.473
SM 5310 B-00	Organic Carbon	99.2	97.1	96.2			0.845

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1798532, 1798533
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1798532, 1798533
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1798534, 1798535
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1798534, 1798535
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1798534, 1798535
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1798534, 1798535
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1798536, 1798537
SM 2120 B / E31780	True Color measured at 450 nm	1798532, 1798533
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1798532, 1798533
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1798532, 1798533
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1798532, 1798533
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1798532, 1798533
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1798534, 1798535

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	05/12/2016			05/13/2016 16:06	Rochelle Y Jackson	1798532, 1798533
EPA 300.0 Rev. 2.1	05/12/2016			05/20/2016	Elisa J Lutz	1798532, 1798533
EPA 350.1 Rev. 2.0	05/12/2016			05/24/2016	Diana M. Turner	1798534, 1798535
EPA 351.2 Rev. 2.0	05/12/2016	05/25/2016	Sofia Elnemr	05/26/2016	Christopher Armour	1798534, 1798535
EPA 353.2 Rev. 2.0	05/12/2016			05/19/2016	Peter D. Kaus	1798534, 1798535
EPA 365.1 Rev. 2.0	05/12/2016	05/26/2016	Vijayalakshmi Reddy	05/27/2016	Rochelle Y Jackson	1798534, 1798535
EPA 365.1 Rev. 2.0 dissolved	05/12/2016			05/13/2016 13:36	Julia Storbeck	1798536
	05/12/2016			05/13/2016 13:37	Julia Storbeck	1798537
SM 2120 B	05/12/2016			05/13/2016 15:34	Rochelle Y Jackson	1798532, 1798533
SM 2320 B-97	05/12/2016			05/22/2016	Dale L. Simmons	1798532, 1798533
SM 2540 C-97	05/12/2016			05/16/2016	Sima Feizi	1798532, 1798533
SM 2540 D-97	05/12/2016			05/16/2016	Sima Feizi	1798532, 1798533
SM 4500 F-C-97	05/12/2016			05/25/2016	Dale L. Simmons	1798532, 1798533
SM 5310 B-00	05/12/2016			05/24/2016	Rochelle Y Jackson	1798534, 1798535