

Chemical Analysis Report

SO-DIST-2022-02-25-01

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

Event Description: **2022 SMP : Arbuckle**
Request ID: **RQ-2022-02-14-24**
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 33901-3381
Attn: William Mullen

For additional information please contact
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 22-MAR-2022 10:40



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 by the Florida Department of Health Environmental Laboratory Certification Program 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: ArbuckleCreekNearBranch

Collection Date/Time: 02/24/2022 10:30

Field ID: G4SD0210

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308313	DEP SOP: NU-094-1	Color (true)**	110		PCU	P410437	
	EPA 180.1 Rev. 2.0	Turbidity	5.6		NTU	P410381	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P410851	
		Sulfate	27		mg SO4/L	P410855	
	SM 2320 B-2011	Total Alkalinity	15		mg CaCO3/L	P410661	
	SM 2540 C-2011	TDS	119		mg/L	P410754	
	SM 2540 D-2011	TSS	8	I	mg/L	P410897	
2308314	SM 4500 F-C-2011	Fluoride	0.065	I	mg F/L	P410664	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.040	Y	mg N/L	P410632	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.92	Y	mg N/L	P410430	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.69	Y	mg N/L	P410784	
	EPA 365.1 Rev. 2.0	Total-P	0.11	Y	mg P/L	P410933	
2308315	SM 5310 B-2011	Organic Carbon	14	Y	mg C/L	P410673	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.056		mg P/L	P410374	

Ref. Method and Comment:

DEP SOP: NU-094-1: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 350.1 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 351.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 353.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 365.1 Rev. 2.0: Total-P: Sample was left out at room temperature overnight, should be stored below 6 degC.

SM 5310 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.

Non-Conformance Report

NCR ID: 9282

Event(s)

SO-DIST-2022-02-25-01

Job(s)

TLH-2022-02-25-40

Sample(s)

2308314

Test(s)

NCR Type: CUSTODY

NCR Category: General

Observation: Samples were removed from the receiving room refrigerator on 02/27/2022 at 16:30. Samples left out overnight at room temperature.

Resolution: Customers contacted by receiving staff.
Samples were placed in appropriate refrigerators on 02/28/2022 at 09:45.
Samples poured for analysis after this date will be qualified.

Authorized by/Date: Colin Wright 3/22/2022

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

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P410437

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410381

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410851

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410855

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410632

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410430

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410784

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410933

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410374

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P410661

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

Reference Method: SM 2540 C-2011
Batch ID: P410754

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P410897

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410664

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410673

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P410437

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.6		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410851

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410855

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410632

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.9		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410784

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: P410933

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410374

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P410661

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P410664

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.5		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410673

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308284	Chloride	99.0		P	90 - 110
2308650	Chloride	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410855

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308284	Sulfate	97.1		P	90 - 110
2308650	Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410632

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308285	Ammonia-N	96.8	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307820	Kjeldahl Nitrogen	100	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410784

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308275	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410933

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308314	Total-P	106	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410374

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308279	O-Phosphate-P	98.6	99.6	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P410664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308685	Fluoride	98.0	97.5	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410673

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307775	Organic Carbon	87.9	90.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308129	Turbidity	14.2	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308284	Chloride	2.10	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308284	Sulfate	0.525	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410632

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308285	Ammonia-N	1.53	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307820	Kjeldahl Nitrogen	2.10	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410784

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308275	NO2NO3-N	0.995	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410933

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308314	Total-P	3.56	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308279	O-Phosphate-P	1.01	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P410661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308685	Total Alkalinity	0.0161	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P410754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308284	TDS	3.31	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P410664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308685	Fluoride	0.498	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410673

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307775	Organic Carbon	2.23	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110631

Included Lab Sample IDs: 2308315

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110635

Included Lab Sample IDs: 2308313

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

Reference Method: DEP SOP: NU-094-1

Run ID: A110661

Included Lab Sample IDs: 2308313

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110697

Included Lab Sample IDs: 2308314

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110734

Included Lab Sample IDs: 2308314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.4	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110751

Included Lab Sample IDs: 2308313

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	98.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110751

Included Lab Sample IDs: 2308313

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

Reference Method: SM 5310 B-2011

Run ID: A110758

Included Lab Sample IDs: 2308314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	91.3	90.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110807

Included Lab Sample IDs: 2308314

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110831

Included Lab Sample IDs: 2308313

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110899

Included Lab Sample IDs: 2308314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.6	96.9	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
DEP SOP: NU-094-1	Color (true)	98.6					
EPA 180.1 Rev. 2.0	Turbidity	97.3				14.2	
EPA 300.0 Rev. 2.1	Chloride	100	99.0	97.1		2.10	
	Sulfate	101	97.1	98.9		0.525	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	96.8	98.4			1.53
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.9	100	103			2.10
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	102			0.995
EPA 365.1 Rev. 2.0	Total-P	98.0	106	101			3.56
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	98.6	99.6			1.01
SM 2320 B-2011	Total Alkalinity	98.6				0.0161	
SM 2540 C-2011	TDS					3.31	
SM 4500 F-C-2011	Fluoride	98.5	98.0	97.5			0.498
SM 5310 B-2011	Organic Carbon	96.3	87.9	90.0			2.23

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2308313
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2308313
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2308313
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2308313
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2308314
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2308314
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2308314
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2308314
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2308315
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2308313
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2308313
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2308313
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2308313
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2308314

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/25/2022			02/25/2022 16:40	Anna M. Plaviak	2308313
EPA 180.1 Rev. 2.0	02/25/2022			02/25/2022 15:43	Khloe J Berg	2308313
EPA 300.0 Rev. 2.1	02/25/2022			03/07/2022 19:40	James L Waggeberby	2308313
EPA 350.1 Rev. 2.0	02/25/2022			03/03/2022 12:04	Judith K. Clark	2308314
EPA 351.2 Rev. 2.0	02/25/2022	03/01/2022 10:02	Samantha L Bates	03/01/2022 16:31	Alexandra J Mattheus	2308314
EPA 353.2 Rev. 2.0	02/25/2022			03/08/2022 11:29	Beverly Y. Sanders	2308314
EPA 365.1 Rev. 2.0	02/25/2022	03/11/2022 12:25	Simonne.V. Calhoun	03/11/2022 17:15	Sarah A Nixon	2308314
EPA 365.1 Rev. 2.0 dissolved	02/25/2022			02/25/2022 15:17	James L Waggeberby	2308315
SM 2320 B-2011	02/25/2022			03/03/2022 05:52	Dale L. Simmons	2308313
SM 2540 C-2011	02/25/2022			03/02/2022 14:21	Yijie Li	2308313
SM 2540 D-2011	02/25/2022			03/02/2022 14:26	Yijie Li	2308313
SM 4500 F-C-2011	02/25/2022			03/03/2022 05:52	Dale L. Simmons	2308313
SM 5310 B-2011	02/25/2022			03/03/2022 01:44	Nathaniel J Jones	2308314