

Chemical Analysis Report

CEN-DIST-2022-12-21-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Crabgrass Creek and Little Creek Bios**
Request ID: **RQ-2022-10-10-13**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 17-JAN-2023 11:31

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 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: Bull Creek @ Upstream of 441 Bridge

Collection Date/Time: 12/20/2022 10:45

Field ID: G3CE0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2377068	DEP SOP: NU-094-1	Color (true)	350		PCU	P423845	
	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P423848	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P424400	
		Sulfate	2.9		mg SO4/L	P424209	
	SM 2320 B-2011	Total Alkalinity	0.65	UQ	mg CaCO3/L	P424167	
	SM 2540 C-2015	TDS	102		mg/L	P424227	
	SM 2540 D-2015	TSS	2	U	mg/L	P424117	
2377069	SM 4500-F- C-2011	Fluoride	0.030	I	mg F/L	P424515	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.056		mg N/L	P424305	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P424049	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P424015	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P424135	
2377070	SM 5310 B-2011	Organic Carbon	35		mg C/L	P424182	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.13		mg P/L	P423850	

Ref. Method and Comment:

SM 2320 B-2011: The sample was analyzed out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P423845

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423848

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424209

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424400

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424305

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424049

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424015

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424135

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423850

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: P424167

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

Reference Method: SM 2540 C-2015
Batch ID: P424227

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P424117

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P424515

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P424182

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: P423845

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423848

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424209

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424400

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424305

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424049

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424015

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424135

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: P423850

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P424167

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.0		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P424227

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.9		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P424117

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	88.6		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P424515

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P424182

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 300.0 Rev. 2.1
Batch ID: P424209

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376969	Sulfate	95.4		P	90 - 110
2377150	Sulfate	95.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424400

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376969	Chloride	97.8		P	90 - 110
2377150	Chloride	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424305

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377017	Ammonia-N	99.6	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424049

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376971	Kjeldahl Nitrogen	101	99.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424015

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377078	NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424135

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377087	Total-P	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423850

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377101	O-Phosphate-P	97.8	97.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P424515

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377253	Fluoride	95.1	97.3	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P424182

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377374	Organic Carbon	97.4	96.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P423845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376995	Color (true)	1.98	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376906	Turbidity	5.24	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424209

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376969	Sulfate	1.76	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424400

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376969	Chloride	0.284	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424305

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377017	Ammonia-N	1.49	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424049

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376971	Kjeldahl Nitrogen	1.00	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424015

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377078	NO2NO3-N	0.477	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377087	Total-P	0.499	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423850

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377101	O-Phosphate-P	0.663	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P424167

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377457	Total Alkalinity	0.646	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P424227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376970	TDS	5.76	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P424117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376970	TSS	6.06	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P424515

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377253	Fluoride	1.42	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P424182

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377374	Organic Carbon	0.325	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A116605

Included Lab Sample IDs: 2377068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	96.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A116606

Included Lab Sample IDs: 2377068

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A116607

Included Lab Sample IDs: 2377070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	98.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A116681

Included Lab Sample IDs: 2377069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A116716

Included Lab Sample IDs: 2377068

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

Reference Method: SM 2320 B-2011

Run ID: A116751

Included Lab Sample IDs: 2377068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.5	95.9	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A116757

Included Lab Sample IDs: 2377069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A116758

Included Lab Sample IDs: 2377069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.9	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A116770

Included Lab Sample IDs: 2377069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.4	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A116809

Included Lab Sample IDs: 2377069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	98.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A116833

Included Lab Sample IDs: 2377068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.5	102	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A116886

Included Lab Sample IDs: 2377068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	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	MS
DEP SOP: NU-094-1	Color (true)	97.7			1.98	
EPA 180.1 Rev. 2.0	Turbidity	102			5.24	
EPA 300.0 Rev. 2.1	Chloride	102	97.8	100	0.284	
	Sulfate	96.6	95.4	95.4	1.76	
EPA 350.1 Rev. 2.0	Ammonia-N	95.6	99.6	98.0		1.49
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	101	99.3		1.00
EPA 353.2 Rev. 2.0	NO2NO3-N	105	105	104		0.477
EPA 365.1 Rev. 2.0	Total-P	103	105	105		0.499
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	97.8	97.1		0.663
SM 2320 B-2011	Total Alkalinity	95.0			0.646	
SM 2540 C-2015	TDS	96.9			5.76	
SM 2540 D-2015	TSS	88.6			6.06	
SM 4500-F- C-2011	Fluoride	98.9	95.1	97.3		1.42
SM 5310 B-2011	Organic Carbon	96.6	97.4	96.8		0.325

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2377068
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2377068
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2377068
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2377068
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2377069
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2377069
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2377069
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2377069
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2377070
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2377068
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2377068
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2377068
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2377068
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2377069

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	12/21/2022			12/21/2022 15:05	Alexis Price	2377068
EPA 180.1 Rev. 2.0	12/21/2022			12/21/2022 15:09	Anna M. Plaviak	2377068
EPA 300.0 Rev. 2.1	12/21/2022			01/05/2023 22:52	Anna M. Plaviak	2377068
	12/21/2022			01/10/2023 17:01	Anna M. Plaviak	2377068
EPA 350.1 Rev. 2.0	12/21/2022			01/09/2023 15:17	Ping Hua	2377069
EPA 351.2 Rev. 2.0	12/21/2022	01/03/2023 13:30	Simonne.V. Calhoun	01/05/2023 13:23	Samantha L Bates	2377069
EPA 353.2 Rev. 2.0	12/21/2022			12/29/2022 11:56	Beverly Y. Sanders	2377069
EPA 365.1 Rev. 2.0	12/21/2022	01/05/2023 13:37	Adam P Silver	01/06/2023 10:12	James L Waggerby	2377069
EPA 365.1 Rev. 2.0 dissolved	12/21/2022			12/21/2022 15:25	Elise M. Gillis	2377070
SM 2320 B-2011	12/21/2022			01/05/2023 07:26	Dale L. Simmons	2377068
SM 2540 C-2015	12/21/2022			12/22/2022 16:12	Yijie Li	2377068
SM 2540 D-2015	12/21/2022			12/22/2022 16:12	Yijie Li	2377068
SM 4500-F- C-2011	12/21/2022			01/12/2023 17:26	Dale L. Simmons	2377068
SM 5310 B-2011	12/21/2022			01/05/2023 18:11	Khloe J Berg	2377069