Chemical Analysis Report

CEN-DIST-2023-06-06-01

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

Event Description: **Run 15**
Request ID: **RQ-2023-06-05-25**
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: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 26-JUN-2023 14:02

B. Steinbock

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: Hidden Lake at Center **Collection Date/Time: 06/05/2023 12:22**

Field ID: G4CE0158 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414861	DEP SOP: NU-094-1	Color (true)	38		PCU	P430875	
	EPA 180.1 Rev. 2.0	Turbidity	7.0		NTU	P430870	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P430961	
		Sulfate	1.0		mg SO4/L	P430965	
	SM 2320 B-2011	Total Alkalinity	141		mg CaCO3/L	P431144	
	SM 2540 C-2015	TDS	194		mg/L	P431306	
	SM 2540 D-2015	TSS	5	I	mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P431429	
2414863	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P430926	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P430880	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431131	
	EPA 365.1 Rev. 2.0	Total-P	0.047		mg P/L	P430992	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P431040	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Crooked Lake at Center of N Lobe **Collection Date/Time: 06/05/2023 14:33**

Field ID: G2CE0265 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414862	DEP SOP: NU-094-1	Color (true)	96		PCU	P430876	
	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P430870	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P430961	
		Sulfate	2.5		mg SO4/L	P430965	
	SM 2320 B-2011	Total Alkalinity	29		mg CaCO3/L	P431144	
	SM 2540 C-2015	TDS	102		mg/L	P431306	
	SM 2540 D-2015	TSS	5	I	mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.045	I	mg F/L	P431429	
2414864	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P430926	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P430880	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431131	
	EPA 365.1 Rev. 2.0	Total-P	0.042		mg P/L	P430992	
	SM 5310 B-2011	Organic Carbon	23		mg C/L	P431040	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P430875

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P430876

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430870

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430961

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430965

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430926

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431131

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430992

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P431144

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

Reference Method: SM 2540 C-2015
Batch ID: P431306

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431089

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P431040

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: P430875

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P430876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430870

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430961

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430965

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430926

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: P430880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431131

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: P430992

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P431144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P431306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.5		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P431089

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.9		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431040

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430961

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414487	Chloride	104		P	90 - 110
2414597	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430965

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414487	Sulfate	99.6		P	90 - 110
2414597	Sulfate	91.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430926

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414863	Ammonia-N	96.6	97.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414863	Kjeldahl Nitrogen	94.8	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431131

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414591	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414911	Total-P	106	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414566	Fluoride	103	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414863	Organic Carbon	96.2	98.2	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P430875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414777	Color (true)	15.8	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P430876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414890	Color (true)	7.05	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430870

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414780	Turbidity	16.6	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414487	Chloride	2.24	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414487	Sulfate	1.89	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430926

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414863	Ammonia-N	0.907	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414863	Kjeldahl Nitrogen	7.57	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431131

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414591	NO2NO3-N	0.319	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414911	Total-P	3.53	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P431144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415722	Total Alkalinity	2.63	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P431306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414566	TDS	5.76	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414566	Fluoride	0.503	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P431040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414863	Organic Carbon	1.02	Spike	P	0 - 20

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119605
Included Lab Sample IDs: 2414861, 2414862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.8	97.5	P/P	90 - 110
Sulfate	97.8	99.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A119614
Included Lab Sample IDs: 2414861, 2414862

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

Reference Method: DEP SOP: NU-094-1
Run ID: A119615
Included Lab Sample IDs: 2414861, 2414862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.5	P/P	90 - 110
Color (true)	100	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119634
Included Lab Sample IDs: 2414863, 2414864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.4	98.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119663
Included Lab Sample IDs: 2414863, 2414864

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

Reference Method: SM 5310 B-2011
Run ID: A119681
Included Lab Sample IDs: 2414863, 2414864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.9	99.3	P/P	90 - 110
Organic Carbon	99.3	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119703
Included Lab Sample IDs: 2414863, 2414864

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119723
Included Lab Sample IDs: 2414863, 2414864

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

Reference Method: SM 2320 B-2011
Run ID: A119730
Included Lab Sample IDs: 2414861, 2414862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.6	95.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A119876
Included Lab Sample IDs: 2414861, 2414862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	102	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)	102				15.8	
	Color (true)	102				7.05	
EPA 180.1 Rev. 2.0	Turbidity	98.5				16.6	
EPA 300.0 Rev. 2.1	Chloride	100	104	102		2.24	
	Sulfate	99.1	99.6	91.3		1.89	
EPA 350.1 Rev. 2.0	Ammonia-N	95.6	96.6	97.6			0.907
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.8	94.8	108			7.57
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	100			0.319
EPA 365.1 Rev. 2.0	Total-P	99.1	106	101			3.53
SM 2320 B-2011	Total Alkalinity	100				2.63	
SM 2540 C-2015	TDS	94.5				5.76	
SM 2540 D-2015	TSS	95.9					
SM 4500-F- C-2011	Fluoride	98.3	103	103			0.503
SM 5310 B-2011	Organic Carbon	95.6	96.2	98.2			1.02

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2414861, 2414862
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2414861, 2414862
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2414861, 2414862
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2414861, 2414862
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2414863, 2414864
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2414863, 2414864
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2414863, 2414864
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2414863, 2414864
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2414861, 2414862
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2414861, 2414862
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2414861, 2414862
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2414861, 2414862
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2414863, 2414864

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	06/06/2023			06/06/2023 15:12	Alexis Price	2414861
	06/06/2023			06/06/2023 15:16	Alexis Price	2414862
EPA 180.1 Rev. 2.0	06/06/2023			06/06/2023 14:44	Anna M. Plaviak	2414861
	06/06/2023			06/06/2023 14:45	Anna M. Plaviak	2414862
EPA 300.0 Rev. 2.1	06/06/2023			06/07/2023 23:38	James L Waggerby	2414861
	06/06/2023			06/07/2023 23:53	James L Waggerby	2414862
EPA 350.1 Rev. 2.0	06/06/2023			06/07/2023 13:35	Khloe J Berg	2414863
	06/06/2023			06/07/2023 13:41	Khloe J Berg	2414864
EPA 351.2 Rev. 2.0	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 11:57	Ping Hua	2414863
	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 12:05	Ping Hua	2414864
EPA 353.2 Rev. 2.0	06/06/2023			06/12/2023 09:53	Beverly Y. Sanders	2414863
	06/06/2023			06/12/2023 09:55	Beverly Y. Sanders	2414864
EPA 365.1 Rev. 2.0	06/06/2023	06/08/2023 14:40	Alexis Price	06/09/2023 14:25	Chandler E Cox	2414863
	06/06/2023	06/08/2023 14:40	Alexis Price	06/09/2023 14:26	Chandler E Cox	2414864
SM 2320 B-2011	06/06/2023			06/11/2023 01:28	Dale L. Simmons	2414861
	06/06/2023			06/11/2023 01:38	Dale L. Simmons	2414862
SM 2540 C-2015	06/06/2023			06/08/2023 15:07	Yijie Li	2414861, 2414862
SM 2540 D-2015	06/06/2023			06/08/2023 15:07	Yijie Li	2414861, 2414862
SM 4500-F- C-2011	06/06/2023			06/16/2023 20:37	Adam P Silver	2414861
	06/06/2023			06/16/2023 20:43	Adam P Silver	2414862
SM 5310 B-2011	06/06/2023			06/08/2023 13:51	Elise M. Gillis	2414863
	06/06/2023			06/08/2023 17:23	Elise M. Gillis	2414864