Chemical Analysis Report

SE-DIST-2024-05-08-02

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

Event Description: **SMP - Roebuck**
Request ID: **RQ-2024-04-29-40**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Andrew Luering

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Marek Topolski, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 05-JUN-2024 09:16

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 groups are included in this report: Metals and 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: ST LUCIE CANAL NEAR I 95 **Collection Date/Time: 05/07/2024 11:50**

Field ID: G2SE0077 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2487808	DEP SOP: NU-094-1	Color (true)	40		PCU	P445436	
	EPA 180.1 Rev. 2.0	Turbidity	6.8	A	NTU	P445449	
	EPA 300.0 Rev. 2.1	Chloride	2.9E+03		mg Cl/L	P445700	
	SM 4500-F- C-2011	Fluoride	0.43		mg F/L	P445722	
2487818	EPA 200.7 Rev. 4.4	Calcium	129		mg/L	P445619	
		Iron	300	I	ug/L	P445619	
		Magnesium	191		mg/L	P445619	
		Potassium	59.5		mg/L	P445619	
		Sodium	1.58E+03		mg/L	P445619	
		Strontium	1.73E+03		ug/L	P445619	
		Tin	9.0	U	ug/L	P445619	
		Titanium	3.6	I	ug/L	P445619	
		Vanadium	6.0	U	ug/L	P445619	
		Zinc	15	U	ug/L	P445619	
	EPA 200.8 Rev. 5.4	Aluminum	210		ug/L	P445619	
		Antimony	0.20	U	ug/L	P445619	
		Arsenic	1.93		ug/L	P445619	
		Barium	35.1		ug/L	P445619	
		Beryllium	0.10	U	ug/L	P445619	
		Boron	661		ug/L	P445619	
		Cadmium	0.080	U	ug/L	P445619	
		Chromium	4.0	U	ug/L	P445619	
		Cobalt	0.32		ug/L	P445619	
		Copper	24.2		ug/L	P445619	
		Lead	0.80	U	ug/L	P445619	
		Manganese	27.4		ug/L	P445619	
		Molybdenum	3.0		ug/L	P445619	
		Nickel	2.0	U	ug/L	P445619	
		Selenium	0.80	U	ug/L	P445619	
		Silver	0.040	U	ug/L	P445619	
		Thallium	0.40	U	ug/L	P445619	
	SM 2340 B-2011	Hardness	1.11E+03		mg/L	P445619	

Ref. Method and Comment:
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium and sodium are unavailable because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable because of high analyte concentration in the QC sample. The copper result was confirmed in the undigested sample on 05/29/2024.

Sample Location: ROEBUCK CREEK AT LOCKS **Collection Date/Time: 05/07/2024 11:05**

Field ID: G2SE0029 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2487806	DEP SOP: NU-094-1	Color (true)	27	A	PCU	P445436	
	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P445449	
	EPA 300.0 Rev. 2.1	Chloride	55		mg Cl/L	P445700	
	SM 4500-F- C-2011	Fluoride	0.24		mg F/L	P445722	

Non-Conformance Report

NCR ID: 10476

Event(s)	Job(s)	Sample(s)	Test(s)
SE-DIST-2024-05-08-02	TLH-2024-05-08-36		

NCR Type: CUSTODY **NCR Category: General**

Observation: After 05/09/2024, sample(s) were stored above room temperature for multiple days because of a power outage.

Resolution: Customer elected not to receive Y and/or Q qualfied data resulting from power outage, so any affected tests were removed or the sample was cancelled.

Authorized by/Date: Sarah A Nixon 5/29/2024

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: P445436

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P445449

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P445619

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P445619

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445700

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P445722

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P445436

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P445449

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P445619

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	98.7		P	85 - 115
Iron	102		P	85 - 115
Magnesium	97.6		P	85 - 115
Potassium	95.4		P	85 - 115
Sodium	98.6		P	85 - 115
Strontium	93.6		P	85 - 115
Tin	96.2		P	85 - 115
Titanium	97.6		P	85 - 115
Vanadium	95.1		P	85 - 115
Zinc	95.8		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P445619

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	103		P	85 - 115
Barium	103		P	85 - 115
Beryllium	101		P	85 - 115
Boron	104		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	99.8		P	85 - 115
Copper	98.9		P	85 - 115
Lead	103		P	85 - 115
Manganese	104		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	99.9		P	85 - 115
Selenium	104		P	85 - 115
Silver	95.6		P	85 - 115
Thallium	98.4		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445700

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P445722

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	95 - 106

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P445619

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2487818	Iron	101	103	P/P	70 - 130
2487818	Strontium	93.5	92.5	P/P	70 - 130
2487818	Tin	96.5	98.3	P/P	70 - 130
2487818	Titanium	96.0	98.1	P/P	70 - 130
2487818	Vanadium	97.6	99.2	P/P	70 - 130
2487818	Zinc	99.0	99.8	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P445619

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2487818	Aluminum	102	104	P/P	70 - 130
2487818	Antimony	110	109	P/P	70 - 130
2487818	Arsenic	116	116	P/P	70 - 130
2487818	Barium	110	108	P/P	70 - 130
2487818	Beryllium	94.3	101	P/P	70 - 130
2487818	Cadmium	103	99.1	P/P	70 - 130
2487818	Chromium	97.5	98.4	P/P	70 - 130
2487818	Cobalt	96.1	96.9	P/P	70 - 130
2487818	Copper	100	100	P/P	70 - 130
2487818	Lead	110	109	P/P	70 - 130
2487818	Manganese	98.3	97.8	P/P	70 - 130
2487818	Molybdenum	114	113	P/P	70 - 130
2487818	Nickel	100	101	P/P	70 - 130
2487818	Selenium	111	110	P/P	70 - 130
2487818	Silver	91.7	91.1	P/P	70 - 130
2487818	Thallium	106	105	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2487833	Chloride	99.1		P	90 - 110
2488107	Chloride	104		P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P445722

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2486815	Fluoride	103	104	P/P	95 - 107

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P445436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2487806	Color (true)	2.44	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P445449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2487808	Turbidity	0.884	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P445619

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2487818	Calcium	1.44	Spike	P	0 - 20
2487818	Iron	2.10	Spike	P	0 - 20
2487818	Magnesium	0.722	Spike	P	0 - 20
2487818	Potassium	1.86	Spike	P	0 - 20
2487818	Sodium	0.417	Spike	P	0 - 20
2487818	Strontium	0.574	Spike	P	0 - 20
2487818	Tin	1.91	Spike	P	0 - 20
2487818	Titanium	1.94	Spike	P	0 - 20
2487818	Vanadium	1.67	Spike	P	0 - 20
2487818	Zinc	0.821	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P445619

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2487818	Aluminum	1.89	Spike	P	0 - 20
2487818	Antimony	1.09	Spike	P	0 - 20
2487818	Arsenic	0.366	Spike	P	0 - 20
2487818	Barium	0.898	Spike	P	0 - 20
2487818	Beryllium	6.76	Spike	P	0 - 20
2487818	Boron	0.0748	Spike	P	0 - 20
2487818	Cadmium	3.81	Spike	P	0 - 20
2487818	Chromium	0.938	Spike	P	0 - 20
2487818	Cobalt	0.814	Spike	P	0 - 20
2487818	Copper	0.0323	Spike	P	0 - 20
2487818	Lead	0.879	Spike	P	0 - 20
2487818	Manganese	0.395	Spike	P	0 - 20
2487818	Molybdenum	0.863	Spike	P	0 - 20
2487818	Nickel	0.632	Spike	P	0 - 20
2487818	Selenium	0.513	Spike	P	0 - 20
2487818	Silver	0.662	Spike	P	0 - 20
2487818	Thallium	0.808	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2487833	Chloride	3.85	Sample	P	0 - 20

Reference Method: SM 4500-F- C-2011
Batch ID: P445722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2486815	Fluoride	0.520	Spike	P	0 - 1.7

* 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: A125751
Included Lab Sample IDs: 2487806, 2487808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	98.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A125758
Included Lab Sample IDs: 2487806, 2487808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	99.0	P/P	95 - 105

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A125863
Included Lab Sample IDs: 2487818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	103	102	P/P	90 - 110
Antimony	103	101	P/P	90 - 110
Arsenic	102	104	P/P	90 - 110
Barium	103	101	P/P	90 - 110
Beryllium	97.6	99.4	P/P	90 - 110
Boron	98.9	99.9	P/P	90 - 110
Cadmium	105	100	P/P	90 - 110
Chromium	100	98.7	P/P	90 - 110
Cobalt	98.6	100	P/P	90 - 110
Copper	99.4	101	P/P	90 - 110
Lead	103	103	P/P	90 - 110
Manganese	100	99.0	P/P	90 - 110
Molybdenum	101	99.8	P/P	90 - 110
Nickel	100	101	P/P	90 - 110
Selenium	103	103	P/P	90 - 110
Silver	101	99.3	P/P	90 - 110
Thallium	101	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A125865
Included Lab Sample IDs: 2487818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.2	98.9	P/P	90 - 110
Iron	98.2	97.7	P/P	90 - 110
Magnesium	99.1	97.7	P/P	90 - 110
Potassium	96.0	97.8	P/P	90 - 110
Sodium	98.8	97.5	P/P	90 - 110
Strontium	97.6	98.9	P/P	90 - 110
Tin	98.0	99.0	P/P	90 - 110
Titanium	97.5	96.7	P/P	90 - 110
Vanadium	94.2	94.2	P/P	90 - 110
Zinc	97.2	96.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A125878
Included Lab Sample IDs: 2487806, 2487808

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

Reference Method: SM 4500-F- C-2011
Run ID: A125880
Included Lab Sample IDs: 2487806, 2487808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	104	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)	99.2				2.44	
EPA 180.1 Rev. 2.0	Turbidity	101				0.884	
EPA 200.7 Rev. 4.4	Calcium	98.7					1.44
	Iron	102	101	103			2.10
	Magnesium	97.6					0.722
	Potassium	95.4					1.86
	Sodium	98.6					0.417
	Strontium	93.6	93.5	92.5			0.574
	Tin	96.2	96.5	98.3			1.91
	Titanium	97.6	96.0	98.1			1.94
	Vanadium	95.1	97.6	99.2			1.67
	Zinc	95.8	99.0	99.8			0.821
EPA 200.8 Rev. 5.4	Aluminum	102	102	104			1.89
	Antimony	102	110	109			1.09
	Arsenic	103	116	116			0.366
	Barium	103	110	108			0.898
	Beryllium	101	94.3	101			6.76
	Boron	104					0.0748
	Cadmium	101	99.1	103			3.81
	Chromium	101	97.5	98.4			0.938
	Cobalt	99.8	96.1	96.9			0.814
	Copper	98.9	100	100			0.0323
	Lead	103	110	109			0.879
	Manganese	104	98.3	97.8			0.395
	Molybdenum	101	114	113			0.863
	Nickel	99.9	100	101			0.632
	Selenium	104	111	110			0.513
	Silver	95.6	91.7	91.1			0.662
	Thallium	98.4	106	105			0.808
EPA 300.0 Rev. 2.1	Chloride	100	99.1	104		3.85	
SM 4500-F- C-2011	Fluoride	102	103	104			0.520

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2487806, 2487808
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2487806, 2487808
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2487818
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2487818
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2487806, 2487808
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2487818
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2487806, 2487808

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	05/08/2024			05/08/2024 13:43	Jessica K Wilks	2487806, 2487808
EPA 180.1 Rev. 2.0	05/08/2024			05/08/2024 13:20	Khloe J Berg	2487806
	05/08/2024			05/08/2024 13:22	Khloe J Berg	2487808
EPA 200.7 Rev. 4.4	05/08/2024	05/22/2024 12:25	George D Taylor	05/23/2024 13:23	Conrad Hartmann	2487818
	05/08/2024	05/22/2024 12:25	George D Taylor	05/23/2024 14:19	Conrad Hartmann	2487818
EPA 200.8 Rev. 5.4	05/08/2024	05/22/2024 12:25	George D Taylor	05/23/2024 16:23	Emily M Philpot	2487818
	05/08/2024	05/22/2024 12:25	George D Taylor	05/23/2024 17:52	Emily M Philpot	2487818
EPA 300.0 Rev. 2.1	05/08/2024			05/24/2024 16:00	Samantha L Bates	2487806
	05/08/2024			05/24/2024 16:15	Samantha L Bates	2487808
SM 2340 B-2011	05/08/2024			05/23/2024 13:23	Conrad Hartmann	2487818
SM 4500-F- C-2011	05/08/2024			05/25/2024 12:17	Dale L. Simmons	2487806
	05/08/2024			05/25/2024 13:57	Dale L. Simmons	2487808