

Chemical Analysis Report

SO-DIST-2020-06-23-01

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

Event Description: **2020 SMP : Charlotte Harbor**
Request ID: **RQ-2020-06-22-38**
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: Nicole Reistad

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 08-JUL-2020 12:27



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: TrailerParkCanal@Mouth

Collection Date/Time: 06/22/2020 10:30

Field ID: G3SD0072

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2177946	EPA 180.1 Rev. 2.0	Turbidity	2.2	A	NTU	P383578	
	EPA 300.0 Rev. 2.1	Bromide	24		mg Br/L	P384096	
	SM 2320 B-2011	Total Alkalinity	89		mg CaCO3/L	P383730	
	SM 2540 D-2011	TSS	6	I	mg/L	P383824	
	SM 4500 F-C-2011	Fluoride	0.68		mg F/L	P383785	
2177948	EPA 350.1 Rev. 2.0	Ammonia-N	0.042		mg N/L	P383769	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P383655	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P383839	
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P383605	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P383710	
2177950	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.24		mg P/L	P383582	

Ref. Method and Comment:

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

Sample Location: MyakkaCutoff(Western)

Collection Date/Time: 06/22/2020 10:50

Field ID: G3SD0073

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2177947	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P383578	
	EPA 300.0 Rev. 2.1	Bromide	29		mg Br/L	P384096	
	SM 2320 B-2011	Total Alkalinity	93		mg CaCO3/L	P383730	
	SM 2540 D-2011	TSS	7	IA	mg/L	P383824	
	SM 4500 F-C-2011	Fluoride	0.79		mg F/L	P383742	MS
2177949	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P383769	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P383655	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P383839	
	EPA 365.1 Rev. 2.0	Total-P	0.26		mg P/L	P383605	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P383710	
2177951	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.21		mg P/L	P383582	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P383578

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384096

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383769

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383655

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383839

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383605

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383582

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

Reference Method: SM 2320 B-2011
Batch ID: P383730

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

Reference Method: SM 2540 D-2011
Batch ID: P383824

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P383742

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P383785

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P383710

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: P384096

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bromide	96.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383769

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383655

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: P383839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383605

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383582

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

Reference Method: SM 2320 B-2011
Batch ID: P383730

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P383742

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.9		P	90 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P383785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.4		P	90 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P383710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384096

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177963	Bromide	96.2	96.7	P/P	90 - 110
2178150	Bromide	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178875	Ammonia-N	100	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383655

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178153	Kjeldahl Nitrogen	107	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177948	NO2NO3-N	94.9	95.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177593	Total-P	97.4	94.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383582

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2177950	O-Phosphate-P	94.7	95.4	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P383742

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178151	Fluoride	106	108	P/F	94 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P383785

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178671	Fluoride	104	103	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P383710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2178153	Organic Carbon	94.3	93.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P383578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177946	Turbidity	1.79	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384096

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177963	Bromide	0.391	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P383769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178875	Ammonia-N	2.38	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178153	Kjeldahl Nitrogen	2.28	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177948	NO2NO3-N	0.989	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177593	Total-P	2.73	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383582

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2177950	O-Phosphate-P	0.323	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P383730

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178151	Total Alkalinity	1.28	Sample	P	0 - 8.1

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P383742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178151	Fluoride	1.41	Spike	P	0 - 2.8

Reference Method: SM 4500 F-C-2011
Batch ID: P383785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178671	Fluoride	0.463	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P383710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2178153	Organic Carbon	0.510	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A99472

Included Lab Sample IDs: 2177946, 2177947

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A99473

Included Lab Sample IDs: 2177950, 2177951

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A99504

Included Lab Sample IDs: 2177948, 2177949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	104	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A99535

Included Lab Sample IDs: 2177948, 2177949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.9	95.6	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A99540

Included Lab Sample IDs: 2177946, 2177947

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.0	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A99540

Included Lab Sample IDs: 2177947

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A99553

Included Lab Sample IDs: 2177948, 2177949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.5	97.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A99556

Included Lab Sample IDs: 2177948, 2177949

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

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A99560

Included Lab Sample IDs: 2177946

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A99585

Included Lab Sample IDs: 2177948, 2177949

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A99696

Included Lab Sample IDs: 2177946, 2177947

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	96.0	98.6	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 SMP	MS
			LCS				
EPA 180.1 Rev. 2.0	Turbidity					1.79	
EPA 300.0 Rev. 2.1	Bromide	96.0	96.2	96.7	97.2		0.391
EPA 350.1 Rev. 2.0	Ammonia-N	101	100	103			2.38
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	107	103			2.28
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.0	94.9	95.9			0.989
EPA 365.1 Rev. 2.0	Total-P	99.6	97.4	94.5			2.73
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	94.7	95.4			0.323
SM 2320 B-2011	Total Alkalinity	104				1.28	
SM 4500 F-C-2011	Fluoride	97.9	106	108			1.41
	Fluoride	97.4	104	103			0.463
SM 5310 B-2011	Organic Carbon	94.8	94.3	93.7			0.510

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2177946, 2177947
EPA 300.0 Rev. 2.1	Bromide in aqueous matrices	2177946, 2177947
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2177948, 2177949
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2177948, 2177949
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2177948, 2177949
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2177948, 2177949
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2177950, 2177951
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2177946, 2177947
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2177946, 2177947
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2177946, 2177947
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2177948, 2177949

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	06/23/2020			06/23/2020 15:02	Yen Ta	2177946, 2177947
EPA 300.0 Rev. 2.1	06/23/2020			07/02/2020 01:03	Jhamieka S. Greenwood	2177946
	06/23/2020			07/02/2020 01:20	Jhamieka S. Greenwood	2177947
EPA 350.1 Rev. 2.0	06/23/2020			06/27/2020 17:17	Ping Hua	2177949
	06/23/2020			06/27/2020 17:24	Ping Hua	2177948
EPA 351.2 Rev. 2.0	06/23/2020	06/25/2020 10:55	Sima Feizi	06/26/2020 12:14	Jhamieka S. Greenwood	2177948
	06/23/2020	06/25/2020 10:55	Sima Feizi	06/26/2020 12:15	Jhamieka S. Greenwood	2177949
EPA 353.2 Rev. 2.0	06/23/2020			06/30/2020 07:53	Beverly Y. Sanders	2177948
	06/23/2020			06/30/2020 07:59	Beverly Y. Sanders	2177949
EPA 365.1 Rev. 2.0	06/23/2020	06/24/2020 11:09	Yen Ta	06/25/2020 08:20	Benjamin T. Nordmann	2177948
	06/23/2020	06/24/2020 11:09	Yen Ta	06/25/2020 08:21	Benjamin T. Nordmann	2177949
EPA 365.1 Rev. 2.0 dissolved	06/23/2020			06/23/2020 16:39	Carlos Miranda	2177950
	06/23/2020			06/23/2020 16:41	Carlos Miranda	2177951
SM 2320 B-2011	06/23/2020			06/26/2020 08:57	Dale L. Simmons	2177946
	06/23/2020			06/26/2020 09:09	Dale L. Simmons	2177947
SM 2540 D-2011	06/23/2020			06/24/2020 13:02	Yijie Li	2177946, 2177947
SM 4500 F-C-2011	06/23/2020			06/26/2020 07:42	Dale L. Simmons	2177947
	06/23/2020			06/26/2020 23:17	Dale L. Simmons	2177946
SM 5310 B-2011	06/23/2020			06/26/2020 04:05	David Boose	2177948
	06/23/2020			06/26/2020 04:17	David Boose	2177949