Chemical Analysis Report

WQAP-2018-08-01-04

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

Event Description: **2017 SMP Kit Template 1**
Request ID: **RQ-2018-07-23-06**
Customer: **WQAP**
Project ID: **SMP**

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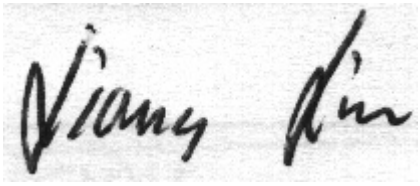

Case Narrative

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 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: Billy Creek CM **Collection Date/Time: 07/31/2018 08:10**

Field ID: G3SD0127 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2012241	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P349508	
	SM 2320 B-97	Total Alkalinity	209		mg CaCO3/L	P349653	
	SM 2540 D-97	TSS	5	I	mg/L	P349954	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P349656	
2012243	EPA 350.1 Rev. 2.0	Ammonia-N	0.077		mg N/L	P349685	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P349540	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.087		mg N/L	P349615	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P349563	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P349733	
2012245	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.094		mg P/L	P349501	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: ImperialRiver(Marine)CM **Collection Date/Time: 07/31/2018 09:47**

Field ID: G1SD0069 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2012242	EPA 180.1 Rev. 2.0	Turbidity	1.9	A	NTU	P349509	
	SM 2320 B-97	Total Alkalinity	198		mg CaCO3/L	P349653	
	SM 2540 D-97	TSS	3	I	mg/L	P349954	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P349656	
2012244	EPA 350.1 Rev. 2.0	Ammonia-N	0.079		mg N/L	P349685	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P349540	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.091		mg N/L	P349548	
	EPA 365.1 Rev. 2.0	Total-P	0.041		mg P/L	P349563	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P349733	
2012246	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P349502	

Ref. Method and Comment:
SM 2540 D-97: 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: P349508

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349509

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349685

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349540

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349548

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349615

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349563

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349501

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349502

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P349653

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

Reference Method: SM 2540 D-97
Batch ID: P349954

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P349656

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P349733

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349685

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349540

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349548

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	103		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349615

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349563

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.4		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349501

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.1		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349502

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

Reference Method: SM 2320 B-97
Batch ID: P349653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P349656

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	91 - 105

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P349733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.1		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349685

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012208	Ammonia-N	98.2	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012264	Kjeldahl Nitrogen	99.2	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012252	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349615

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012161	NO2NO3-N	99.8	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349563

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012217	Total-P	98.4	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349501

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012159	O-Phosphate-P	96.4	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349502

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012311	O-Phosphate-P	96.2	98.0	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P349656

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012216	Fluoride	97.1	97.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P349733

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012158	Organic Carbon	98.3	96.8	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012157	Turbidity	7.66	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349509

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012242	Turbidity	3.73	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349685

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012208	Ammonia-N	2.55	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012264	Kjeldahl Nitrogen	0.371	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012252	NO2NO3-N	0.432	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012161	NO2NO3-N	1.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012217	Total-P	3.19	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349501

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012159	O-Phosphate-P	0.496	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012311	O-Phosphate-P	1.58	Spike	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P349653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012216	Total Alkalinity	0.170	Sample	P	0 - 1.6

Reference Method: SM 4500 F-C-97
Batch ID: P349656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012216	Fluoride	0.476	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P349733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012158	Organic Carbon	1.22	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A85616
Included Lab Sample IDs: 2012245, 2012246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	97.7	P/P	90 - 110
O-Phosphate-P	98.9	98.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A85618
Included Lab Sample IDs: 2012241, 2012242

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	103	P/P	95 - 105
Turbidity	103	102	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A85640
Included Lab Sample IDs: 2012244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A85666
Included Lab Sample IDs: 2012243

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A85667
Included Lab Sample IDs: 2012243, 2012244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A85668
Included Lab Sample IDs: 2012244

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A85677
Included Lab Sample IDs: 2012243

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

Reference Method: SM 2320 B-97
Run ID: A85692
Included Lab Sample IDs: 2012241, 2012242

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: SM 2320 B-97
Run ID: A85692
Included Lab Sample IDs: 2012241, 2012242

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

Reference Method: SM 4500 F-C-97
Run ID: A85692
Included Lab Sample IDs: 2012241, 2012242

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A85703
Included Lab Sample IDs: 2012243, 2012244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.6	P/P	90 - 110
Ammonia-N	99.6	103	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A85729
Included Lab Sample IDs: 2012243, 2012244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.2	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		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					7.66	
	Turbidity					3.73	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	98.2	102			2.55
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	99.2	98.6			0.371
EPA 353.2 Rev. 2.0	NO2NO3-N	103	101	102			0.432
	NO2NO3-N	101	99.8	101			1.05
EPA 365.1 Rev. 2.0	Total-P	99.4	98.4	102			3.19
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1	96.4	97.0			0.496
	O-Phosphate-P	102	96.2	98.0			1.58
SM 2320 B-97	Total Alkalinity	104				0.170	
SM 4500 F-C-97	Fluoride	99.2	97.1	97.7			0.476
SM 5310 B-00	Organic Carbon	96.1	98.3	96.8			1.22

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2012241, 2012242
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2012243, 2012244
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2012243, 2012244
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2012243, 2012244
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2012243, 2012244
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2012245, 2012246
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2012241, 2012242
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2012241, 2012242
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2012241, 2012242
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2012243, 2012244

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	08/01/2018			08/01/2018 14:45	William L. Brown IV	2012241, 2012242
EPA 350.1 Rev. 2.0	08/01/2018			08/06/2018 14:22	Julia Storbeck	2012243
	08/01/2018			08/06/2018 14:30	Julia Storbeck	2012244
EPA 351.2 Rev. 2.0	08/01/2018	08/02/2018 11:00	Adrian Shelby	08/03/2018 10:07	Joseph Suarez	2012243
	08/01/2018	08/02/2018 11:00	Adrian Shelby	08/03/2018 10:08	Joseph Suarez	2012244
EPA 353.2 Rev. 2.0	08/01/2018			08/02/2018 11:30	Lauren Bottorf	2012244
	08/01/2018			08/03/2018 12:42	Lauren Bottorf	2012243
EPA 365.1 Rev. 2.0	08/01/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 09:52	Beverly Y. Sanders	2012243
	08/01/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 11:16	Beverly Y. Sanders	2012244
EPA 365.1 Rev. 2.0 dissolved	08/01/2018			08/01/2018 15:21	Julia Storbeck	2012246
	08/01/2018			08/01/2018 15:38	Julia Storbeck	2012245
SM 2320 B-97	08/01/2018			08/03/2018 08:12	Dale L. Simmons	2012241
	08/01/2018			08/03/2018 09:41	Dale L. Simmons	2012242
SM 2540 D-97	08/01/2018			08/03/2018 16:45	Yijie Li	2012241, 2012242
SM 4500 F-C-97	08/01/2018			08/03/2018 08:12	Dale L. Simmons	2012241
	08/01/2018			08/03/2018 09:41	Dale L. Simmons	2012242
SM 5310 B-00	08/01/2018			08/06/2018 19:56	Megan Treadwell	2012243
	08/01/2018			08/06/2018 20:10	Megan Treadwell	2012244