Chemical Analysis Report

CEN-DIST-2017-03-16-02

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

Event Description: **UnDrain 3046 +HA**
Request ID: **RQ-2017-01-30-55**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 12-APR-2017 14:12

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: Sand Creek @ 100m US of CR 415 **Collection Date/Time: 03/15/2017 13:29**

Field ID: G5CE0093 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1880500	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P321691	
	EPA 300.0 Rev. 2.1	Chloride	65		mg Cl/L	P322219	
		Sulfate	7.6		mg SO4/L	P322410	
	SM 2120 B	Color (true)	81		PCU	P321693	
	SM 2320 B-97	Total Alkalinity	55		mg CaCO3/L	P321869	
	SM 2540 C-97	TDS	224		mg/L	P322357	
	SM 2540 D-97	TSS	2	U	mg/L	P322156	
	SM 4500 F-C-97	Fluoride	0.091	I	mg F/L	P321872	
1880501	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P321778	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P321801	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P321962	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P321827	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P321720	
1880502	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P322294	

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: P321691

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322219

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322410

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321778

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321801

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321962

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321827

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322294

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

Reference Method: SM 2120 B
Batch ID: P321693

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P321869

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

Reference Method: SM 2540 C-97
Batch ID: P322357

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P322156

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P321872

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P321720

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: P322219

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	93.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322410

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321778

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321801

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321827

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322294

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

Reference Method: SM 2320 B-97
Batch ID: P321869

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P321872

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.5		P	92 - 103

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P321720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.3		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880620	Chloride	94.3		P	90 - 110
1880621	Chloride	92.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322410

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880620	Sulfate	103		P	90 - 110
1880621	Sulfate	95.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880467	Ammonia-N	98.4	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321801

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880622	Kjeldahl Nitrogen	95.2	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880488	NO2NO3-N	94.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321827

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880501	Total-P	99.0	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880489	O-Phosphate-P	96.9	92.7	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P321872

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880713	Fluoride	98.8	98.8	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P321720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880079	Organic Carbon	95.5	97.3	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P321691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880466	Turbidity	10.9	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880620	Chloride	0.666	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880620	Sulfate	17.0	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880467	Ammonia-N	1.81	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321801

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880622	Kjeldahl Nitrogen	4.76	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880488	NO2NO3-N	0.740	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321827

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880501	Total-P	2.78	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880489	O-Phosphate-P	4.43	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P321693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880466	Color (true)	1.10	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P321869

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880713	Total Alkalinity	0.292	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P322357

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880466	TDS	0.404	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P321872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880713	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P321720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880079	Organic Carbon	1.47	Spike	P	0 - 20

Quality Assurance Report
Precision

* 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 180.1 Rev. 2.0
Run ID: A75149
Included Lab Sample IDs: 1880500

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: SM 2120 B
Run ID: A75150
Included Lab Sample IDs: 1880500

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.3	100	P/P	85 - 115

Reference Method: SM 5310 B-00
Run ID: A75160
Included Lab Sample IDs: 1880501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.9	99.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A75184
Included Lab Sample IDs: 1880501

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

Reference Method: SM 2320 B-97
Run ID: A75223
Included Lab Sample IDs: 1880500

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A75223
Included Lab Sample IDs: 1880500

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A75234
Included Lab Sample IDs: 1880501

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A75255
Included Lab Sample IDs: 1880501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.1	92.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A75257
Included Lab Sample IDs: 1880501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.0	95.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A75326
Included Lab Sample IDs: 1880500

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.8	95.1	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A75396
Included Lab Sample IDs: 1880500

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	98.4	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A75403
Included Lab Sample IDs: 1880502

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.6	98.2	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					10.9	
EPA 300.0 Rev. 2.1	Chloride	93.2	94.3	92.7		0.666	
	Sulfate	96.8	103	95.1		17.0	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	98.4	96.2			1.81
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	95.2	101			4.76
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	94.8				0.740
EPA 365.1 Rev. 2.0	Total-P	104	99.0	102			2.78
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.8	96.9	92.7			4.43
SM 2120 B	Color (true)					1.10	
SM 2320 B-97	Total Alkalinity	104				0.292	
SM 2540 C-97	TDS					0.404	

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 4500 F-C-97	Fluoride	96.5	98.8	98.8			0.0
SM 5310 B-00	Organic Carbon	97.3	95.5	97.3			1.47

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1880500
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1880500
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1880500
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1880501
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1880501
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1880501
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1880501
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1880502
SM 2120 B / E31780	True Color measured at 450 nm	1880500
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1880500
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1880500
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1880500
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1880500
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1880501

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	03/16/2017			03/16/2017 14:13	Sima Feizi	1880500
EPA 300.0 Rev. 2.1	03/16/2017			03/25/2017	Ping Hua	1880500
	03/16/2017			03/29/2017	Ping Hua	1880500
EPA 350.1 Rev. 2.0	03/16/2017			03/17/2017	Sofia Elnemr	1880501
EPA 351.2 Rev. 2.0	03/16/2017	03/20/2017	Adrian Shelby	03/22/2017	Joseph Suarez	1880501
EPA 353.2 Rev. 2.0	03/16/2017			03/21/2017	Beverly Y. Sanders	1880501
EPA 365.1 Rev. 2.0	03/16/2017	03/20/2017	Vijayalakshmi Reddy	03/21/2017	Lipi Saha	1880501
EPA 365.1 Rev. 2.0 dissolved	03/16/2017			03/16/2017 14:50	Ping Hua	1880502
SM 2120 B	03/16/2017			03/16/2017 15:17	Julie Michelle Frank	1880500
SM 2320 B-97	03/16/2017			03/18/2017	Dale L. Simmons	1880500
SM 2540 C-97	03/16/2017			03/20/2017	Sima Feizi	1880500
SM 2540 D-97	03/16/2017			03/20/2017	Sima Feizi	1880500
SM 4500 F-C-97	03/16/2017			03/18/2017	Dale L. Simmons	1880500
SM 5310 B-00	03/16/2017			03/16/2017	Julie Michelle Frank	1880501