

Chemical Analysis Report

WTRSHD-MGT-2012-02-03-02

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

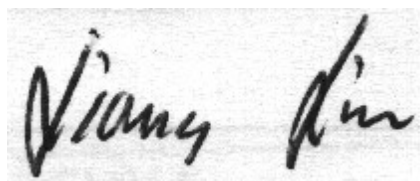
Event Description: **TMDL Sampling - Merritts Mill Pond SURFACE WATER**
Request ID: **RQ-2012-01-23-37**
Customer: **WTRSHD-MGT**
Project ID: **GRNT-10608**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 23-FEB-2012 11:23

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

Abbreviations and data remark codes

CERT # - NELAP (National Environmental Laboratory Accreditation Program) Certification Number of the laboratory that performed the analysis.

LCS – Laboratory Control Sample; in the QC Failures column, this notation indicates a batch recovery failure.

MS – Matrix Spike; in the QC Failures column, this notation indicates a batch recovery failure.

RPD – Relative Percent Difference; in the QC Failures column, this notation indicates a batch failure for precision.

CCV – Continuing Calibration Verification; in the QC Failures column, this notation indicates a failure of the calibration verification check sample.

RSD – Relative Standard Deviation expressed as a percentage.

SMP – Sample.

** - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

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

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).

Precision is reported as relative percent difference unless otherwise noted.

Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published test performance acceptance criteria.

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.

All sample collection performed by Bureau of Laboratories staff followed the field Standard Operating Procedures adopted by reference in Rule 62-160 FAC unless otherwise noted.

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.

Results for NELAP accredited tests contained in this report meet the requirements specified by the National Environmental Laboratory Accreditation Conference (NELAC). All samples received were in acceptable condition and met NELAC requirements unless otherwise noted. Results generated in this report pertain to the samples collected and submitted for analysis.

Job: TLH-2012-02-03-31

Group: Nutrients

Job: TLH-2012-02-03-32

Group: Metals

Sample Location: MMP-3**Collection Date/Time: 02/02/2012 01:01 PM****Field ID: MMP-3****Matrix: W-OTHER**

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1406406	EPA 180.1 Rev. 2.0	Turbidity	0.40		NTU	P235691	
	EPA 300.0 Rev. 2.1	Chloride	4.5		mg Cl/L	P235971	
		Sulfate	1.3		mg SO4/L	P235973	
	SM 2120 B	Color (true)	2.5	U	PCU	P235693	
	SM 2320 B-97	Alkalinity	123		mg CaCO3/L	P235900	
	SM 2540 C-97	TDS	158	A	mg/L	P235960	
	SM 2540 D-97	TSS	3	I	mg/L	P235845	
	SM 4500 F-C-97	Fluoride	0.040	I	mg F/L	P235800	
1406407	EPA 350.1 Rev. 2.0	Ammonia-N	0.044		mg N/L	P235735	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.11	I	mg N/L	P236295	
	EPA 353.2 Rev. 2.0	NO2NO3-N	3.2		mg N/L	P235770	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P235856	
	SM 5310 B-00	Organic Carbon	1.0	U	mg C/L	P235948	
1406408	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.016		mg P/L	P235707	
1406409	EPA 200.7 Rev. 4.4	Boron	15	U	ug/L	P236031	
		Potassium	0.41	I	mg/L	P236031	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0**Batch ID: P235691**

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4**Batch ID: P236031**

Component	Result	Code	Units
Boron	15	U	ug/L
Potassium	0.30	U	mg/L

Reference Method: EPA 300.0 Rev. 2.1**Batch ID: P235971**

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1**Batch ID: P235973**

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P235735

Component	Result	Code	Units
Ammonia-N	0.010	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P236295

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P235770

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P235856

Component	Result	Code	Units
Total-P	0.004	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P235707

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

Reference Method: SM 2120 B

Batch ID: P235693

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97

Batch ID: P235900

Component	Result	Code	Units
Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-97

Batch ID: P235960

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97

Batch ID: P235845

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97

Batch ID: P235800

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00

Batch ID: P235948

Component	Result	Code	Units
Organic Carbon	1.0	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P236031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Boron	96.8		P	85 - 115
Potassium	104		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235971

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235973

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P235735

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: P236295

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: P235770

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P235856

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P235707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.5		P	90 - 110

Reference Method: SM 2320 B-97

Batch ID: P235900

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alkalinity	103		P	85 - 115

Reference Method: SM 4500 F-C-97

Batch ID: P235800

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	85 - 115

Reference Method: SM 5310 B-00

Batch ID: P235948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P236031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406008	Boron	103	105	P/P	80 - 120
1406008	Potassium	104	103	P/P	80 - 120
1406400	Boron	103		P	80 - 120
1406400	Potassium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235971

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406309	Chloride	93.1		P	90 - 110
1406326	Chloride	95.4	93.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235973

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406309	Sulfate	91.7		P	90 - 110
1406326	Sulfate	91.9	91.1	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P235735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406396	Ammonia-N	93.7	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P236295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1408192	Kjeldahl Nitrogen	98.9	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P235770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406390	NO2NO3-N	96.2	96.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P235856

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406396	Total-P	103	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P235707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406398	O-Phosphate-P	94.9	96.9	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Batch ID: P235800

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406148	Fluoride	86.8	103	P/P	85 - 115

Reference Method: SM 5310 B-00

Batch ID: P235948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1406316	Organic Carbon	113	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P235691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406330	Turbidity	4.24	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P236031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406008	Boron	1.86	Spike	P	0 - 20
1406008	Potassium	1.47	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235971

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406326	Chloride	1.43	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P235973

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406326	Sulfate	0.657	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P235735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406396	Ammonia-N	2.39	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P236295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1408192	Kjeldahl Nitrogen	1.37	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P235770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406390	NO ₂ NO ₃ -N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P235856

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406396	Total-P	2.04	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P235707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406398	O-Phosphate-P	1.75	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B

Batch ID: P235693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406331	Color (true)	2.56	Sample	P	0 - 20

Reference Method: SM 2320 B-97

Batch ID: P235900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406395	Alkalinity	0.663	Sample	P	0 - 20
1407249	Alkalinity	0.166	Sample	P	0 - 20

Reference Method: SM 2540 C-97

Batch ID: P235960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406406	TDS	4.44	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97

Batch ID: P235800

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406148	Fluoride	0.0	Sample	P	0 - 20

Reference Method: SM 5310 B-00

Batch ID: P235948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406316	Organic Carbon	9.95	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 180.1 Rev. 2.0

Run ID: A43378

Included Lab Sample IDs: 1406406

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

Reference Method: SM 2120 B

Run ID: A43379

Included Lab Sample IDs: 1406406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	94.4	91.2	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A43389

Included Lab Sample IDs: 1406408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	97.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A43401

Included Lab Sample IDs: 1406407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.1	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A43420

Included Lab Sample IDs: 1406407

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

Reference Method: SM 4500 F-C-97

Run ID: A43431

Included Lab Sample IDs: 1406406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	100	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A43460

Included Lab Sample IDs: 1406407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.9	98.8	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A43479

Included Lab Sample IDs: 1406406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alkalinity	97.3	97.7	P/P	85 - 115

Reference Method: SM 5310 B-00

Run ID: A43504

Included Lab Sample IDs: 1406407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	107	107	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A43516

Included Lab Sample IDs: 1406406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.3	102	P/P	90 - 110
Sulfate	93.0	97.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A43543

Included Lab Sample IDs: 1406409

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	97.5	98.0	P/P	90 - 110
Potassium	104	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A43650

Included Lab Sample IDs: 1406407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	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			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						4.24	
EPA 200.7 Rev. 4.4	Boron	96.8	103	105	103			1.86
	Potassium	104	104	103	103			1.47
EPA 300.0 Rev. 2.1	Chloride	97.7	95.4	93.6	93.1			1.43
	Sulfate	94.0	91.9	91.1	91.7			0.657
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	93.7	96.2				2.39
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	98.9	101				1.37
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	96.2	96.2				0.0
EPA 365.1 Rev. 2.0	Total-P	103	103	101				2.04
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5	94.9	96.9				1.75
SM 2120 B	Color (true)						2.56	
SM 2320 B-97	Alkalinity	103					0.166	
							0.663	
SM 2540 C-97	TDS						4.44	
SM 4500 F-C-97	Fluoride	100	86.8	103			0.0	
SM 5310 B-00	Organic Carbon	96.5	113	97.0				9.95

Reference Method Descriptions

Method / NELAC Cert. #	Description
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
SM 2120 B / E31780	True Color measured at 450 nm or Apparent Color

Reference Method Descriptions

Method / NELAC Cert. #

SM 2320 B-97 / E31780

SM 2540 C-97 / E31780

SM 2540 D-97 / E31780

SM 4500 F-C-97 / E31780

SM 5310 B-00 / E31780

DescriptionAlkalinity in aqueous matrices as mg CaCO₃/L

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Nonpurgeable Organic Carbon in aqueous matrices

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	02/03/2012			02/03/2012 14:52	Bryan A. Werth	1406406
EPA 200.7 Rev. 4.4	02/03/2012	02/08/2012	Elliott D. Healy	02/14/2012	Elisa J Lutz	1406409
EPA 300.0 Rev. 2.1	02/03/2012			02/08/2012	Gary Dearman	1406406
EPA 350.1 Rev. 2.0	02/03/2012			02/06/2012	Diana M. Dunbar	1406407
EPA 351.2 Rev. 2.0	02/03/2012	02/20/2012	Bryan A. Werth	02/21/2012	Bryan A. Werth	1406407
EPA 353.2 Rev. 2.0	02/03/2012			02/07/2012	Sima Feizi	1406407
EPA 365.1 Rev. 2.0	02/03/2012	02/08/2012	Megan E. Faircloth	02/09/2012	Megan E. Faircloth	1406407
EPA 365.1 Rev. 2.0 dissolved	02/03/2012			02/03/2012 15:35	Pallavi R. Gadwal	1406408
SM 2120 B	02/03/2012			02/03/2012 13:31	Rochelle Y Jackson	1406406
SM 2320 B-97	02/03/2012			02/10/2012	Dale L. Simmons	1406406
SM 2540 C-97	02/03/2012			02/06/2012	Yijie Li	1406406
SM 2540 D-97	02/03/2012			02/06/2012	Yijie Li	1406406
SM 4500 F-C-97	02/03/2012			02/08/2012	Dale L. Simmons	1406406
SM 5310 B-00	02/03/2012			02/13/2012	Rochelle Y Jackson	1406407