

Biological Analysis Report

NE-DIST-2017-07-12-01

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

Overflow Analyses Performed By:
Advanced Environmental Laboratories - Gainesville
6815 SW Archer Road
Gainesville, Florida 32608
DOH Accreditation E82001

Event Description: **Suwannee 2**
Request ID: **RQ-2017-07-10-08**
Customer: **NE-DIST**
Project ID: **SMP**

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Date Certified: 30-AUG-2017 13:21



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: Chlorophyll/Grain Size/BOD, Molecular and Overflow.

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: CANNON CRK @ CANNON CRK RD W CR 47 **Collection Date/Time: 07/11/2017 11:15**

Field ID: G1NE0617 07112017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912901	SM 10200 H (mod.)	Chlorophyll-a, Corrected	11		ug/L	P328693	
		Phaeophytin-a	0.69	I	ug/L	P328693	
		Chlorophyll/Phaeophytin Ratio	1.7			P328693	
		Chlorophyll-a, Uncorrected	12		ug/L	P328693	
1912910	SOP-PCR-1.0	HF183-qPCR**	110	T	GEU/100 mL	P330030	
	SOP-PCR-1.3	GFD-purified-qPCR**	34	T	TSC/100 mL	P328245	LCS, MS, RPD
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Ref. Method and Comment:

SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: OLUSTEE CREEK @ CR 238

Collection Date/Time: 07/11/2017 11:55

Field ID: G1NE0332 07112017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912900	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.55	U	ug/L	P328693	
		Phaeophytin-a	0.40	U	ug/L	P328693	
		Chlorophyll/Phaeophytin Ratio	2.8			P328693	
		Chlorophyll-a, Uncorrected	0.40	U	ug/L	P328693	
1912903	EPA 1603	Escherichia coli-Membrane Filter	50	B	cfu/100 mL		
1912907	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Ref. Method and Comment:

SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: PARENERS BRANCH @ CR 1491

Collection Date/Time: 07/11/2017 12:30

Field ID: G1NE0600 07112017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912904	EPA 1603	Escherichia coli-Membrane Filter	610		cfu/100 mL		
1912908	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P328087	
	SOP-PCR-1.4	BacR-qPCR**	5.44E+06		TSC/100 mL	P328087	LCS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Ref. Method and Comment:

SOP-PCR-1.0: No amplification of HF183 marker.

Sample Location: NEW RIVER @ SR 100

Collection Date/Time: 07/11/2017 10:10

Field ID: G1NE0534 07112017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912905	EPA 1603	Escherichia coli-Membrane Filter	200		cfu/100 mL		
1912909	SOP-PCR-1.0	HF183-purified-qPCR**	24	UJ	GEU/100 mL	P328794	LCS, SUR
	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Ref. Method and Comment:

SOP-PCR-1.0: No amplification of PURHF marker. Quality control failure(s) observed. See QA report for details.

Sample Location: MILL CREEK @ BELLAMY/ALLIGATOR RD

Collection Date/Time: 07/11/2017 12:55

Field ID: G1NE0605 07112017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912899	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.4		ug/L	P328612	
		Phaeophytin-a	0.40	U	ug/L	P328612	
		Chlorophyll/Phaeophytin Ratio	1.6			P328612	
		Chlorophyll-a, Uncorrected	2.6		ug/L	P328612	
1912902	EPA 1603	Escherichia coli-Membrane Filter	4000		cfu/100 mL		
1912906	SOP-PCR-1.0	HF183-qPCR**	12	T	GEU/100 mL	P328087	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: CANNON CRK @ CANNON CRK RD W CR 47 Collection Date/Time: 07/11/2017 11:15

Field ID: G1NE0617

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1917659	EPA 1603	Escherichia coli-Membrane Filter	600		cfu/100 mL		

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)
 Batch ID: P328612

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Chlorophyll-a, Uncorrected	0.40	U	ug/L
Phaeophytin-a	0.40	U	ug/L

Reference Method: SM 10200 H (mod.)
 Batch ID: P328693

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Chlorophyll-a, Uncorrected	0.40	U	ug/L
Phaeophytin-a	0.40	U	ug/L

Reference Method: SOP-PCR-1.0
 Batch ID: P328087

Component	Result	Code	Units
HF183-qPCR	280	U	GEU/100 mL

Reference Method: SOP-PCR-1.0
 Batch ID: P328794

Component	Result	Code	Units
HF183-purified-qPCR	47	U	GEU/100 mL

Reference Method: SOP-PCR-1.0
 Batch ID: P330030

Component	Result	Code	Units
HF183-qPCR	280	U	GEU/100 mL
HF183-qPCR	280	U	GEU/100 mL

Quality Assurance Report Method Blank Results

Reference Method: SOP-PCR-1.3
Batch ID: P328245

Component	Result	Code	Units
GFD-purified-qPCR	340	U	TSC/100 mL
GFD-purified-qPCR	340	U	TSC/100 mL

Reference Method: SOP-PCR-1.4
Batch ID: P328087

Component	Result	Code	Units
BacR-qPCR	3.0E+03	U	TSC/100 mL
BacR-qPCR	3.0E+03	U	TSC/100 mL

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P328612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	111		P	84 - 116

Reference Method: SM 10200 H (mod.)
Batch ID: P328693

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	106		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P328087

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	115	68.8	P/P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P328794

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-purified-qPCR	98.4	8.66	P/F	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P330030

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	107	95.3	P/P	50 - 175
HF183-qPCR	100	92.9	P/P	50 - 175

Reference Method: SOP-PCR-1.3
Batch ID: P328245

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	14.7	103	F/P	50 - 175
GFD-purified-qPCR	20.1	123	F/P	50 - 175

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SOP-PCR-1.4
Batch ID: P328087

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	23.9	84.9	F/P	50 - 175
BacR-qPCR	29.2	68.4	F/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P328087

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1910311	HF183-qPCR	108	99.5	P	50 - 175
1911680	HF183-qPCR	130		P	50 - 175
1911681	HF183-qPCR	122		P/P	50 - 175
1911682	HF183-qPCR	85.1		P	50 - 175
1911683	HF183-qPCR	117	99.5	P	50 - 175
1911746	HF183-qPCR	83.3		P	50 - 175
1911747	HF183-qPCR	95.3		P	50 - 175
1912403	HF183-qPCR	95.7		P	50 - 175
1912566	HF183-qPCR	116	99.5	P	50 - 175
1912567	HF183-qPCR	98.1		P	50 - 175
1912906	HF183-qPCR	93.4		P	50 - 175
1912908	HF183-qPCR	88.3		P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P328794

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912909	HF183-purified-qPCR	100	99.5	P	50 - 175
1913036	HF183-purified-qPCR	114		P	50 - 175
1914276	HF183-purified-qPCR	95.8		P	50 - 175
1915212	HF183-purified-qPCR	94.2		P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P330030

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911743	HF183-qPCR	95.0	99.5	P	50 - 175
1911744	HF183-qPCR	84.6		P	50 - 175
1911745	HF183-qPCR	85.9		P	50 - 175
1912910	HF183-qPCR	89.4		P	50 - 175
1920808	HF183-qPCR	87.2	99.5	P	50 - 175
1920809	HF183-qPCR	81.9		P	50 - 175
1920810	HF183-qPCR	82.9		P	50 - 175
1920940	HF183-qPCR	98.2		P	50 - 175
1920941	HF183-qPCR	71.3	99.5	P	50 - 175
1920942	HF183-qPCR	69.5		P	50 - 175
1921167	HF183-qPCR	89.4		P/P	50 - 175
1921170	HF183-qPCR	77.6		P	50 - 175
1921171	HF183-qPCR	85.9	99.5	P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.3
Batch ID: P328245

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1870630	GFD-purified-qPCR	147		P	50 - 175
1879803	GFD-purified-qPCR	146		P	50 - 175
1879804	GFD-purified-qPCR	105		P	50 - 175
1902820	GFD-purified-qPCR	72.0		P	50 - 175
1909295	GFD-purified-qPCR	27.7		F	50 - 175
1909893	GFD-purified-qPCR	116		P	50 - 175
1912403	GFD-purified-qPCR	107		P	50 - 175
1912569	GFD-purified-qPCR	40.0		F	50 - 175
1912910	GFD-purified-qPCR	71.4		P	50 - 175
1913825	GFD-purified-qPCR	94.1		P	50 - 175
1913826	GFD-purified-qPCR	83.0		P	50 - 175
1913827	GFD-purified-qPCR	108		P	50 - 175
1913828	GFD-purified-qPCR	81.2	91.4	P/P	50 - 175
1913829	GFD-purified-qPCR	59.8		P	50 - 175
1913830	GFD-purified-qPCR	60.7		P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P328087

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912567	BacR-qPCR	50.8		P	50 - 175
1912908	BacR-qPCR	78.7		P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P328612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912777	Chlorophyll/Phaeophytin Ratio	0.0	Sample	P	0 - 25
1912777	Chlorophyll-a, Corrected	3.32	Sample	P	0 - 25
1912777	Chlorophyll-a, Uncorrected	6.75	Sample	P	0 - 25
1912777	Phaeophytin-a	24.5	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)
Batch ID: P328693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912925	Chlorophyll/Phaeophytin Ratio	0.0	Sample	P	0 - 25
1912925	Chlorophyll-a, Corrected	4.61	Sample	P	0 - 25
1912925	Chlorophyll-a, Uncorrected	2.84	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P328087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911681	HF183-qPCR	20.4	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: SOP-PCR-1.0
Batch ID: P328794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1916651	HF183-purified-qPCR	8.29	Spike	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P330030

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1921167	HF183-qPCR	4.00	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P328245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1913828	GFD-purified-qPCR	11.8	Spike	P	0 - 25
1918018	GFD-purified-qPCR	55.0	Spike	F	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P328087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1908242	BacR-qPCR	9.19	Spike	P	0 - 25
1917377	BacR-qPCR	6.85	Spike	P	0 - 25

* 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 Surrogates

Lab Sample ID: 1912906
Field Sample ID: G1NE0605 07112017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	102	P	50 - 300

Lab Sample ID: 1912908
Field Sample ID: G1NE0600 07112017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	103	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	98.7	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	98.7	P	50 - 300

Lab Sample ID: 1912909
Field Sample ID: G1NE0534 07112017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	8.05	F	30 - 300

Quality Assurance Report Surrogates

Lab Sample ID: 1912910
Field Sample ID: G1NE0617 07112017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	94.2	P	50 - 300

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery			MS % Recovery			LCS	Precision	
									SMP	MS
SM 10200 H (mod.)	Chlorophyll/Phaeophytin Ratio								0.0	
	Chlorophyll/Phaeophytin Ratio								0.0	
	Chlorophyll-a, Corrected	111							3.32	
	Chlorophyll-a, Corrected	106							4.61	
	Chlorophyll-a, Uncorrected								6.75	
	Chlorophyll-a, Uncorrected								2.84	
	Phaeophytin-a								24.5	
SOP-PCR-1.0	HF183-purified-qPCR	8.66	98.4		100	114	95.8			8.29
					94.2					
	HF183-qPCR	68.8	115		108	130	122			20.4
					99.5					
SOP-PCR-1.0	HF183-qPCR	107	92.9	100	77.6	87.2	81.9			4.00
		95.3			82.9					
	GFD-purified-qPCR	14.7	123	20.1	116	107	40.0			55.0
		103			71.4					11.8
SOP-PCR-1.4	BacR-qPCR	23.9	68.4	29.2	50.8	78.7				9.19
		84.9								6.85

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 1603 / E82001	Escherichia coli by membrane filter method using modified mTEC by Advanced Environmental Gainesville Overflow Laboratories for NED	1912902, 1912903, 1912904, 1912905, 1917659
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	1912899, 1912900, 1912901
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	1912906, 1912908, 1912910
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	1912909
SOP-PCR-1.3 / E31780	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	1912910
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	1912908
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	1912906, 1912907, 1912908, 1912909, 1912910

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 1603	07/11/2017			07/11/2017 14:40	AEL - Gainesville	1912902, 1912903, 1912904, 1912905, 1917659
SM 10200 H (mod.)	07/12/2017	07/12/2017 14:20	Amelia G. Rankin	07/17/2017	Jennifer Mihalic	1912899
	07/12/2017	07/12/2017 14:20	Amelia G. Rankin	07/18/2017	Jennifer Mihalic	1912900, 1912901
SOP-PCR-1.0	07/12/2017	07/12/2017 13:30	Avril Wood	08/15/2017	Puja Jasrotia	1912910
	07/12/2017	07/12/2017 13:30	Puja Jasrotia	07/20/2017	Puja Jasrotia	1912906, 1912908
	07/12/2017	07/12/2017 13:30	Puja Jasrotia	08/04/2017	Sarah Menz	1912909
SOP-PCR-1.3	07/12/2017	07/12/2017 13:30	Puja Jasrotia	07/21/2017	Sarah Menz	1912910
SOP-PCR-1.4	07/12/2017	07/12/2017 13:30	Puja Jasrotia	08/10/2017	Sarah Menz	1912908
SOP-PCR-4.0	07/12/2017	07/12/2017 13:30	Avril Wood	08/03/2017	Puja Jasrotia	1912906, 1912907, 1912908, 1912909
	07/12/2017	07/12/2017 13:30	Avril Wood	08/14/2017	Puja Jasrotia	1912910