

Biological Analysis Report

SW-DIST-2019-02-14-01

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

Overflow Analyses Performed By:
Advanced Environmental Laboratories - Tampa
9610 Princess Palm Avenue
Tampa, Florida 33619
DOH Accreditation E84589

Event Description: **Run 11**
Request ID: **RQ-2019-02-11-32**
Customer: **SW-DIST**
Project ID: **SMP**

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13051 N. Telecom Parkway
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Certified by: Jacqueline Savage, Environmental Administrator

Date Certified: 15-APR-2019 10:42

A handwritten signature in black ink that reads "Jackie Savage". The signature is written in a cursive, flowing style.

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 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: WARES CRK @ 36th AVE

Collection Date/Time: 02/13/2019 11:30

Field ID: G2SW0031

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062664	SM 10200 H (mod.)	Chlorophyll-a, Corrected	4.6		ug/L	P359472	
		Phaeophytin-a	2.7		ug/L	P359472	
		Chlorophyll-a, Uncorrected	6.4		ug/L	P359472	
2062673	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P360249	
	SOP-PCR-1.2	GULL2-qPCR**	3.21E+05		TSC/100 mL	P360249	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P360249	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold			P358952	
2062679	EPA 1603	Escherichia coli-Membrane Filter**	2100		cfu/100 mL		

Sample Location: WARES CRK @ 36th AVE

Collection Date/Time: 02/13/2019 11:35

Field ID: G2SW0031_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062665	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.6		ug/L	P359474	
		Phaeophytin-a	2.0		ug/L	P359474	
		Chlorophyll-a, Uncorrected	4.9		ug/L	P359474	
2062674	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P360249	
	SOP-PCR-1.2	GULL2-qPCR**	2.13E+05		TSC/100 mL	P360249	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P360249	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold			P358952	
2062680	EPA 1603	Escherichia coli-Membrane Filter**	1500	B	cfu/100 mL		

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: FB_02132019

Collection Date/Time: 02/13/2019 11:20

Field ID: BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062666	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.55	U	ug/L	P359474	
		Phaeophytin-a	0.60	U	ug/L	P359474	
		Chlorophyll-a, Uncorrected	0.40	U	ug/L	P359474	

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: WARES CRK FRESH @ 30th AVE WEST

Collection Date/Time: 02/13/2019 11:00

Field ID: G2SW0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062667	SM 10200 H (mod.)	Chlorophyll-a, Corrected	5.1		ug/L	P359474	
		Phaeophytin-a	3.8		ug/L	P359474	
		Chlorophyll-a, Uncorrected	7.6		ug/L	P359474	
2062676	SOP-PCR-1.0	HF183-qPCR**	94	U	GEU/100 mL	P360249	
	SOP-PCR-1.2	GULL2-qPCR**	2.3E+04	I	TSC/100 mL	P360249	
	SOP-PCR-1.4	BacR-qPCR**	1.0E+03	U	TSC/100 mL	P360249	

Field ID: G2SW0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062676	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold			P358952	
2062682	EPA 1603	Escherichia coli-Membrane Filter**	2000		cfu/100 mL		

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: BRADEN RIVER BELOW WARD LAKE @ RAMP **Collection Date/Time: 02/13/2019 09:50**

Field ID: G2SW0111

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062686	SM 9230 C	Enterococci-Membrane Filter	470		cfu/100 mL		

Sample Location: LONGBOAT KEY @ BISHOPS BAYOU **Collection Date/Time: 02/13/2019 12:30**

Field ID: G3SW0052

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062668	SM 10200 H (mod.)	Chlorophyll-a, Corrected	14		ug/L	P359474	
		Phaeophytin-a	2.5	I	ug/L	P359474	
		Chlorophyll-a, Uncorrected	16		ug/L	P359474	
2062683	SM 9222 D	Fecal Coliforms-Membrane Filter	217	A	cfu/100 mL		
	SM 9230 C	Enterococci-Membrane Filter	210		cfu/100 mL		

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: WARES CRK @ 9th AVE **Collection Date/Time: 02/13/2019 10:10**

Field ID: G2SW0029

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062669	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.6	I	ug/L	P359474	
		Phaeophytin-a	0.60	U	ug/L	P359474	
		Chlorophyll-a, Uncorrected	1.9		ug/L	P359474	
2062677	SOP-PCR-1.0	HF183-qPCR**	3.10E+03		GEU/100 mL	P360249	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold			P358952	
2062684	SM 9230 C	Enterococci-Membrane Filter	2900		cfu/100 mL		

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: WARES CRK TIDAL BY WATERTOWER **Collection Date/Time: 02/13/2019 10:35**

Field ID: G2SW0108

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062670	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.8	I	ug/L	P359474	
		Phaeophytin-a	2.1		ug/L	P359474	
		Chlorophyll-a, Uncorrected	3.2		ug/L	P359474	
2062678	SOP-PCR-1.0	HF183-qPCR**	340	I	GEU/100 mL	P360249	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold			P358952	
2062685	SM 9230 C	Enterococci-Membrane Filter	4700		cfu/100 mL		

Field ID: G2SW0108

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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.							

Quality Assurance Report
Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P359472

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Chlorophyll-a, Uncorrected	0.40	U	ug/L
Phaeophytin-a	0.60	U	ug/L

Reference Method: SM 10200 H (mod.)
Batch ID: P359474

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Chlorophyll-a, Uncorrected	0.40	U	ug/L
Phaeophytin-a	0.60	U	ug/L

Reference Method: SOP-PCR-1.0
Batch ID: P360249

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

Reference Method: SOP-PCR-1.2
Batch ID: P360249

Component	Result	Code	Units
GULL2-qPCR	1.7E+04	U	TSC/100 mL

Reference Method: SOP-PCR-1.4
Batch ID: P360249

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P359472

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	105		P	84 - 116

Reference Method: SM 10200 H (mod.)
Batch ID: P359474

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	108		P	84 - 116

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P360249

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	106	170	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P360249

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	139	236	P/P	50 - 300

Reference Method: SOP-PCR-1.4
Batch ID: P360249

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	97.4	115	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P360249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062673	HF183-qPCR	115		P	50 - 175
2062674	HF183-qPCR	112		P	50 - 175
2062676	HF183-qPCR	116		P	50 - 175
2062677	HF183-qPCR	115		P	50 - 175
2062678	HF183-qPCR	113		P	50 - 175
2063932	HF183-qPCR	107		P	50 - 175
2063933	HF183-qPCR	109		P	50 - 175
2064412	HF183-qPCR	109	108	P/P	50 - 175
2070025	HF183-qPCR	117		P	50 - 175
2070026	HF183-qPCR	101		P	50 - 175
2070612	HF183-qPCR	116		P	50 - 175
2070614	HF183-qPCR	121		P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P360249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062673	GULL2-qPCR	125		P	50 - 300
2062674	GULL2-qPCR	70.6		P	50 - 300
2062676	GULL2-qPCR	84.7		P	50 - 300
2063932	GULL2-qPCR	66.9		P	50 - 300
2063933	GULL2-qPCR	82.6		P	50 - 300
2064412	GULL2-qPCR	83.3	90.8	P/P	50 - 300
2070612	GULL2-qPCR	90.4		P	50 - 300
2070614	GULL2-qPCR	75.6		P	50 - 300

Reference Method: SOP-PCR-1.4
Batch ID: P360249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.4

Batch ID: P360249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062673	BacR-qPCR	74.1		P	50 - 175
2062674	BacR-qPCR	85.9		P	50 - 175
2062676	BacR-qPCR	89.7		P	50 - 175
2063932	BacR-qPCR	90.2		P	50 - 175
2063933	BacR-qPCR	90.0		P	50 - 175
2064412	BacR-qPCR	91.7	96.2	P/P	50 - 175
2070025	BacR-qPCR	87.4		P	50 - 175
2070026	BacR-qPCR	84.3		P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)

Batch ID: P359472

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062621	Chlorophyll-a, Corrected	3.07	Sample	P	0 - 25
2062621	Chlorophyll-a, Uncorrected	2.53	Sample	P	0 - 25
2062621	Phaeophytin-a	0.870	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)

Batch ID: P359474

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062824	Chlorophyll-a, Corrected	9.06	Sample	P	0 - 25
2062824	Chlorophyll-a, Uncorrected	4.99	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0

Batch ID: P360249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064412	HF183-qPCR	0.665	Spike	P	0 - 25

Reference Method: SOP-PCR-1.2

Batch ID: P360249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064412	GULL2-qPCR	8.52	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4

Batch ID: P360249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064412	BacR-qPCR	4.80	Spike	P	0 - 25

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 Surrogates

Lab Sample ID: 2062673
Field Sample ID: G2SW0031

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	247	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	68.3	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	92.8	P	50 - 300

Lab Sample ID: 2062674
Field Sample ID: G2SW0031_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	244	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	83.9	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	85.3	P	50 - 300

Lab Sample ID: 2062676
Field Sample ID: G2SW0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	243	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	89.8	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	91.3	P	50 - 300

Lab Sample ID: 2062677
Field Sample ID: G2SW0029

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	252	P	50 - 300

Lab Sample ID: 2062678
Field Sample ID: G2SW0108

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	255	P	50 - 300

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision		
							LCS	SMP	MS
SM 10200 H (mod.)	Chlorophyll-a, Corrected	105						3.07	
	Chlorophyll-a, Corrected	108						9.06	
	Chlorophyll-a, Uncorrected							2.53	
	Chlorophyll-a, Uncorrected							4.99	
	Phaeophytin-a							0.870	
SOP-PCR-1.0	HF183-qPCR	170	106	107	109	109			0.665
				108					

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision SMP	MS
SOP-PCR-1.2	GULL2-qPCR	236	139	66.9	82.6	83.3		8.52
SOP-PCR-1.4	BacR-qPCR	115	97.4	90.2	90.0	91.7		4.80
				90.8		96.2		

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 1603 / E84589	Escherichia coli by membrane filter	2062679, 2062680, 2062682
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	2062664, 2062665, 2062666, 2062667, 2062668, 2062669, 2062670
SM 9222 D / E84589	Fecal coliforms by membrane filter method by Advanced Environmental Laboratories in Tampa	2062683
SM 9230 C / E84589	Enterococci by membrane filter method by Advanced Environmental Overflow Laboratories for SWD	2062683, 2062684, 2062685, 2062686
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2062673, 2062674, 2062676, 2062677, 2062678
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2062673, 2062674, 2062676
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2062673, 2062674, 2062676
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	2062673, 2062674, 2062676, 2062677, 2062678

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 1603	02/13/2019	02/13/2019 16:22		02/14/2019 14:58	AEL - Tampa	2062679, 2062680, 2062682
SM 10200 H (mod.)	02/14/2019	02/14/2019 13:30	Jennifer Mihalic	02/21/2019 08:50	Carina A. Tull	2062664
	02/14/2019	02/14/2019 13:30	Jennifer Mihalic	02/22/2019 09:05	Carina A. Tull	2062665, 2062666, 2062667, 2062668, 2062669, 2062670
SM 9222 D	02/13/2019	02/13/2019 16:31		02/14/2019 14:32	AEL - Tampa	2062683
SM 9230 C	02/13/2019	02/13/2019 16:50		02/14/2019 14:56	AEL - Tampa	2062683, 2062684, 2062685, 2062686
SOP-PCR-1.0	02/14/2019	02/14/2019 12:45	Angela Smith	03/19/2019 08:35	Mailin Lopez	2062673, 2062674, 2062676, 2062677, 2062678
SOP-PCR-1.2	02/14/2019	02/14/2019 12:45	Angela Smith	03/20/2019 09:56	Mailin Lopez	2062673, 2062674, 2062676
SOP-PCR-1.4	02/14/2019	02/14/2019 12:45	Angela Smith	03/19/2019 15:04	Mailin Lopez	2062673, 2062674, 2062676
SOP-PCR-4.0	02/14/2019	02/14/2019 12:45	Angela Smith	04/09/2019 13:46	Sarah Menz	2062673, 2062674, 2062676, 2062677, 2062678