

Biological Analysis Report

WAS-SECT-2018-02-21-01

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

Event Description: **Quincy, Little, Sand, 8, juniper**
Request ID: **RQ-2018-02-19-20**
Customer: **WAS-SECT**
Project ID: **SMP**

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Date Certified: 21-MAR-2018 11:52



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, Microbiology and Molecular.

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 POND MIDDLE

Collection Date/Time: 02/21/2018 08:25

Field ID: G1WA0044

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969455	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.4		ug/L	P340865	
		Phaeophytin-a	1.0	I	ug/L	P340865	
		Chlorophyll-a, Uncorrected	4.2		ug/L	P340865	

Sample Location: SAND POND MIDDLE

Collection Date/Time: 02/21/2018 08:25

Field ID: G1WA0044

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969463	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	8.6		MPN/100 mL	P340482	

Sample Location: EIGHT MILE POND MIDDLE

Collection Date/Time: 02/21/2018 09:10

Field ID: G1WA0024

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969456	SM 10200 H (mod.)	Chlorophyll-a, Corrected	22		ug/L	P340865	
		Phaeophytin-a	2.8		ug/L	P340865	
		Chlorophyll-a, Uncorrected	24		ug/L	P340865	

Sample Location: EIGHT MILE POND MIDDLE

Collection Date/Time: 02/21/2018 09:10

Field ID: G1WA0024

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969464	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	4.1		MPN/100 mL	P340482	

Sample Location: EIGHT MILE POND MIDDLE

Collection Date/Time: 02/21/2018 09:10

Field ID: G1WA0024

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969475	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Sample Location: JUNIPER CREEK UPSTREAM OF JUNIPER CREEK RD

Collection Date/Time: 02/21/2018 10:30

Field ID: G1WA0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969457	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.82	I	ug/L	P340865	
		Phaeophytin-a	1.1	I	ug/L	P340865	
		Chlorophyll-a, Uncorrected	1.5		ug/L	P340865	

Sample Location: JUNIPER CREEK UPSTREAM OF JUNIPER CREEK RD

Collection Date/Time: 02/21/2018 10:30

Field ID: G1WA0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969465	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	275.5		MPN/100 mL	P340482	

Sample Location: JUNIPER CREEK UPSTREAM OF JUNIPER CREEK RD

Collection Date/Time: 02/21/2018 10:30

Field ID: G1WA0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969476	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Sample Location: QUINCY CREEK UPSTREAM OF SR 268

Collection Date/Time: 02/21/2018 11:15

Field ID: G1WA0051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969458	SM 10200 H (mod.)	Chlorophyll-a, Corrected	5.7		ug/L	P340865	
		Phaeophytin-a	0.62	I	ug/L	P340865	
		Chlorophyll-a, Uncorrected	6.3		ug/L	P340865	

Sample Location: QUINCY CREEK UPSTREAM OF SR 268

Collection Date/Time: 02/21/2018 11:15

Field ID: G1WA0051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969466	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	435.2		MPN/100 mL	P340482	

Sample Location: QUINCY CREEK UPSTREAM OF SR 268

Collection Date/Time: 02/21/2018 11:15

Field ID: G1WA0051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969471	SOP-PCR-1.0	HF183-qPCR**	160	T	GEU/100 mL	P340257	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: QUINCY CREEK UPSTREAM OF SR 267

Collection Date/Time: 02/21/2018 11:40

Field ID: G1WA0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969459	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.8		ug/L	P340865	
		Phaeophytin-a	0.73	I	ug/L	P340865	
		Chlorophyll-a, Uncorrected	3.4		ug/L	P340865	

Sample Location: QUINCY CREEK UPSTREAM OF SR 267

Collection Date/Time: 02/21/2018 11:40

Field ID: G1WA0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969467	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	317.0		MPN/100 mL	P340482	

Sample Location: QUINCY CREEK UPSTREAM OF SR 267

Collection Date/Time: 02/21/2018 11:40

Field ID: G1WA0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969472	SOP-PCR-1.0	HF183-qPCR**	290	I	GEU/100 mL	P340257	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Sample Location: QUINCY CREEK UPSTREAM OF SR 65

Collection Date/Time: 02/21/2018 12:08

Field ID: G1WA0049

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969460	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.3		ug/L	P340865	
		Phaeophytin-a	0.88	I	ug/L	P340865	
		Chlorophyll-a, Uncorrected	2.9		ug/L	P340865	

Sample Location: QUINCY CREEK UPSTREAM OF SR 65

Collection Date/Time: 02/21/2018 12:08

Field ID: G1WA0049

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969468	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	455.0		MPN/100 mL	P340482	

Sample Location: QUINCY CREEK UPSTREAM OF SR 65

Collection Date/Time: 02/21/2018 12:08

Field ID: G1WA0049

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969473	SOP-PCR-1.0	HF183-qPCR**	230	T	GEU/100 mL	P340257	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: QUINCY CREEK 100 METERS UPSTREAM OF RALPH STRONG RD

Collection Date/Time: 02/21/2018 13:20

Field ID: G1WA0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969461	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.2		ug/L	P340865	
		Phaeophytin-a	0.99	I	ug/L	P340865	
		Chlorophyll-a, Uncorrected	2.8		ug/L	P340865	

Sample Location: QUINCY CREEK 100 METERS UPSTREAM OF RALPH STRONG RD

Collection Date/Time: 02/21/2018 13:20

Field ID: G1WA0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969469	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	568.6	A	MPN/100 mL	P340482	

Sample Location: QUINCY CREEK 100 METERS UPSTREAM OF RALPH STRONG RD

Collection Date/Time: 02/21/2018 13:20

Field ID: G1WA0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969474	SOP-PCR-1.0	HF183-qPCR**	120	T	GEU/100 mL	P340257	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: LITTLE RIVER 100 METERS UPSTREAM OF US 90

Collection Date/Time: 02/21/2018 13:45

Field ID: G1WA0073

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1969462	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.2		ug/L	P340865	
		Phaeophytin-a	0.81	I	ug/L	P340865	

Field ID: G1WA0073					Matrix: W-SURF-FRH			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
1969462	SM 10200 H (mod.)	Chlorophyll-a, Uncorrected	2.7		ug/L	P340865		

Sample Location: LITTLE RIVER 100 METERS UPSTREAM OF US 90 Collection Date/Time: 02/21/2018 13:45

Field ID: G1WA0073					Matrix: W-SURF-FRH			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
1969470	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	307.6		MPN/100 mL	P340482		

Sample Location: LITTLE RIVER 100 METERS UPSTREAM OF US 90 Collection Date/Time: 02/21/2018 13:45

Field ID: G1WA0073					Matrix: W-SURF-FRH			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
1969521	SOP-PCR-1.0	HF183-qPCR**	280	U	GEU/100 mL	P340391		
	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold					

Ref. Method and Comment:
 SOP-PCR-1.0: No amplification of HF183 marker.

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)
 Batch ID: P340865

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 9223 Quanti-Tray
 Batch ID: P340482

Component	Result	Code	Units
Escherichia Coli-Quanti-Tray	1.0	U	MPN/100 mL

Reference Method: SOP-PCR-1.0
 Batch ID: P340257

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

Reference Method: SOP-PCR-1.0
 Batch ID: P340391

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

Quality Assurance Report Laboratory Control Sample Accuracy

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P340865

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	103		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P340257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	102	95.1	P/P	50 - 175
HF183-qPCR	122	124	P/P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P340391

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	138	113	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P340257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1963137	HF183-qPCR	106		P	50 - 175
1963138	HF183-qPCR	105		P	50 - 175
1963139	HF183-qPCR	74.7		P	50 - 175
1963140	HF183-qPCR	77.6		P	50 - 175
1963378	HF183-qPCR	72.6		P	50 - 175
1963529	HF183-qPCR	65.7		P	50 - 175
1963576	HF183-qPCR	75.4		P	50 - 175
1963834	HF183-qPCR	73.2		P	50 - 175
1964002	HF183-qPCR	58.1		P	50 - 175
1964003	HF183-qPCR	64.8	60.5	P/P	50 - 175
1969471	HF183-qPCR	78.6		P	50 - 175
1969472	HF183-qPCR	82.5		P	50 - 175
1969473	HF183-qPCR	74.1		P	50 - 175
1969474	HF183-qPCR	75.7		P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P340391

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1960726	HF183-qPCR	102		P	50 - 175
1963638	HF183-qPCR	94.3		P	50 - 175
1964775	HF183-qPCR	89.7		P	50 - 175
1964776	HF183-qPCR	71.2		P	50 - 175
1964919	HF183-qPCR	82.4		P	50 - 175
1965315	HF183-qPCR	86.0		P	50 - 175
1965316	HF183-qPCR	96.5		P	50 - 175
1965318	HF183-qPCR	81.8		P	50 - 175
1965319	HF183-qPCR	93.1		P	50 - 175
1966062	HF183-qPCR	93.4	88.9	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P340391

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1966298	HF183-qPCR	88.9		P	50 - 175
1967544	HF183-qPCR	112		P	50 - 175
1969521	HF183-qPCR	87.3		P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P340865

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1969323	Chlorophyll-a, Corrected	0.478	Sample	P	0 - 25
1969323	Chlorophyll-a, Uncorrected	0.739	Sample	P	0 - 25
1969323	Phaeophytin-a	5.73	Sample	P	0 - 25

Reference Method: SM 9223 Quanti-Tray
Batch ID: P340482

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1969107	Escherichia Coli-Quanti-Tray	48.2	Sample	P	0 - 80
1969469	Escherichia Coli-Quanti-Tray	28.2	Sample	P	0 - 80

Reference Method: SOP-PCR-1.0
Batch ID: P340257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1964003	HF183-qPCR	6.94	Spike	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P340391

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1966062	HF183-qPCR	5.00	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: 1969471
Field Sample ID: G1WA0051

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	107	P	50 - 300

Quality Assurance Report Surrogates

Lab Sample ID: 1969472
Field Sample ID: G1WA0050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	115	P	50 - 300

Lab Sample ID: 1969473
Field Sample ID: G1WA0049

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	107	P	50 - 300

Lab Sample ID: 1969474
Field Sample ID: G1WA0018

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	101	P	50 - 300

Lab Sample ID: 1969521
Field Sample ID: G1WA0073

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	99.8	P	50 - 300

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery			MS % Recovery			LCS	Precision SMP	MS
SM 10200 H (mod.)	Chlorophyll-a, Corrected	103							0.478	
	Chlorophyll-a, Uncorrected								0.739	
	Phaeophytin-a								5.73	
SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray								48.2	28.2
SOP-PCR-1.0	HF183-qPCR	102	124	122	106	105	74.7			6.94
		95.1			77.6					
	HF183-qPCR	113	138		87.3	102	88.9			5.00
					112					

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	1969455, 1969456, 1969457, 1969458, 1969459, 1969460, 1969461, 1969462
SM 9223 Quanti-Tray / E31780	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems	1969463, 1969464, 1969465, 1969466, 1969467, 1969468, 1969469, 1969470
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	1969471, 1969472, 1969473, 1969474, 1969521
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	1969471, 1969472, 1969473, 1969474, 1969475, 1969476, 1969521

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 10200 H (mod.)	02/21/2018	02/21/2018 16:17	Mariam Hanna	03/01/2018	Kim M. Spencer	1969455, 1969456, 1969457, 1969458, 1969459, 1969460, 1969461, 1969462
SM 9223 Quanti-Tray	02/21/2018	02/21/2018 16:05	Carina A. Tull	02/22/2018 11:20	Carina A. Tull	1969463
	02/21/2018	02/21/2018 16:55	Edwin Gonzalez-Soto	02/22/2018 11:20	Carina A. Tull	1969464, 1969465, 1969466, 1969467, 1969468, 1969469, 1969470
SOP-PCR-1.0	02/21/2018	02/22/2018 09:30	Angela Smith	02/28/2018	Sarah Menz	1969521
	02/21/2018	02/22/2018 09:30	Puja Jasrotia	02/23/2018	Sarah Menz	1969471, 1969472, 1969473, 1969474
SOP-PCR-4.0	02/21/2018	02/22/2018 09:30	Angela Smith	03/12/2018	Puja Jasrotia	1969471, 1969472, 1969473, 1969474, 1969475, 1969476, 1969521