

Biological Analysis Report

NE-DIST-2017-11-28-01

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

Overflow Analyses Performed By:
ALS Environmental - Jacksonville
9143 Philips Highway, Suite 200
Jacksonville, FL 32256
DOH Accreditation E82502

Event Description: **LSJR BMAP 2**
Request ID: **RQ-2017-11-27-16**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256-7577
Attn: Jeremy Parrish

For additional information please contact
Cheryl Swanson - Administrator
J. Marshall Faircloth - Aquatic Toxicology
Jacqueline Savage - Bench Biology
Jacqueline Savage - Microbiology
Puja Jasrotia, Ph.D. - Molecular Biology
Jennifer Walters - Taxonomy (Invertebrate & Algal)
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8177

Certified by: Puja Jasrotia,

Date Certified: 10-JAN-2018 16:15



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: Goodbys Crk above W branch @ San Clerc

Collection Date/Time: 11/27/2017 08:25

Field ID: G2NE0899

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1948629	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.0		ug/L	P336656	
		Phaeophytin-a	0.44	U	ug/L	P336656	
		Chlorophyll-a, Uncorrected	2.4		ug/L	P336656	
1948636	SM 9223 B	Escherichia Coli-Quanti-Tray**	794		MPN/100 mL		
1948645	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P335941	
	SOP-PCR-1.4	BacR-qPCR**	950	T	TSC/100 mL	P335941	
	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.

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

SOP-PCR-1.4: Duplicate was analyzed and result is 1.5E+03 U.

Sample Location: Big Fishweir Crk SF East Park St

Collection Date/Time: 11/27/2017 10:55

Field ID: G2NE0959

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1948630	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.55	U	ug/L	P336656	
		Phaeophytin-a	0.40	U	ug/L	P336656	
		Chlorophyll-a, Uncorrected	0.40	U	ug/L	P336656	
1948637	SM 9223 B	Escherichia Coli-Quanti-Tray**	2140		MPN/100 mL		
1948646	SOP-PCR-1.0	HF183-qPCR**	94	U	GEU/100 mL	P335941	
	SOP-PCR-1.2	GULL2-qPCR**	250	T	TSC/100 mL	P335941	
	SOP-PCR-1.4	BacR-qPCR**	1.0E+03	U	TSC/100 mL	P335941	
	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.

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

SOP-PCR-1.2: Precision data unavailable for Analysis Batch A81254.

SOP-PCR-1.4: No amplification of BACR marker.

Sample Location: Craig Crk 100m down from bridge in park

Collection Date/Time: 11/27/2017 09:00

Field ID: G2NE0966

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1948631	SM 10200 H (mod.)	Chlorophyll-a, Corrected	4.0		ug/L	P336656	
		Phaeophytin-a	0.40	U	ug/L	P336656	
		Chlorophyll-a, Uncorrected	4.4		ug/L	P336656	
1948638	SM 9223 B	Escherichia Coli-Quanti-Tray**	556		MPN/100 mL		
1948647	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P335941	
	SOP-PCR-1.2	GULL2-qPCR**	8.4E+03	U	TSC/100 mL	P335941	
	SOP-PCR-1.3	GFD-purified-qPCR**	24	T	TSC/100 mL	P337630	LCS, MS, RPD
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P335941	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Field ID: G2NE0966

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. SOP-PCR-1.0: No amplification of HF183 marker. SOP-PCR-1.2: No amplification of GULL2 marker. Precision data unavailable for Analysis Batch A81254. SOP-PCR-1.4: No amplification of BACR marker.							

Sample Location: Craig Crk @ Hendricks Ave

Collection Date/Time: 11/27/2017 10:30

Field ID: G2NE0801

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1948640	SM 9223 B	Escherichia Coli-Quanti-Tray**	529		MPN/100 mL		
1948649	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P335941	
	SOP-PCR-1.4	BacR-qPCR**	500	T	TSC/100 mL	P335941	
	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: Butcher Pen Crk @ Wesconnett Rd

Collection Date/Time: 11/27/2017 11:50

Field ID: G2NE0760

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1948641	SM 9223 B	Escherichia Coli-Quanti-Tray**	4350		MPN/100 mL		
1948650	SOP-PCR-1.0	HF183-qPCR**	56	T	GEU/100 mL	P335941	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: Butcher Pen Crk @ Confederate Pt Rd

Collection Date/Time: 11/27/2017 11:35

Field ID: G2NE0089

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1948632	SM 10200 H (mod.)	Chlorophyll-a, Corrected	12		ug/L	P336656	
		Phaeophytin-a	1.2		ug/L	P336656	
		Chlorophyll-a, Uncorrected	13		ug/L	P336656	
1948639	SM 9223 B	Escherichia Coli-Quanti-Tray**	216		MPN/100 mL		
1948648	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P335941	
	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.
 SOP-PCR-1.0: No amplification of HF183 marker.

Sample Location: Little Fishweir Crk @ Oak Street

Collection Date/Time: 11/27/2017 11:15

Field ID: G2NE0961

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1948642	SM 9223 B	Escherichia Coli-Quanti-Tray**	1870		MPN/100 mL		
1948651	SOP-PCR-1.0	HF183-qPCR**	25	T	GEU/100 mL	P335941	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P336656

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: P335941

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

Reference Method: SOP-PCR-1.2
Batch ID: P335941

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

Reference Method: SOP-PCR-1.3
Batch ID: P337630

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

Reference Method: SOP-PCR-1.4
Batch ID: P335941

Component	Result	Code	Units
BacR-qPCR	3.0E+03	U	TSC/100 mL
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: P336656

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	110		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P335941

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	126	95.4	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P335941

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	72.0	115	P/P	50 - 300

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SOP-PCR-1.3
Batch ID: P337630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	125	39.7	P/F	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P335941

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	136	88.4	P/P	50 - 175
BacR-qPCR	117	120	P/P	50 - 175
BacR-qPCR	146	144	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P335941

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1948645	HF183-qPCR	75.3	96.4	P/P	50 - 175
1948646	HF183-qPCR	85.5		P	50 - 175
1948647	HF183-qPCR	88.6		P	50 - 175
1948648	HF183-qPCR	84.6		P	50 - 175
1948649	HF183-qPCR	86.5		P	50 - 175
1948650	HF183-qPCR	93.9		P	50 - 175
1948651	HF183-qPCR	77.1		P	50 - 175
1948780	HF183-qPCR	80.3		P	50 - 175
1948781	HF183-qPCR	95.2		P	50 - 175
1948782	HF183-qPCR	70.2		P	50 - 175
1948783	HF183-qPCR	81.6		P	50 - 175
1948784	HF183-qPCR	67.7		P	50 - 175
1949076	HF183-qPCR	85.5		P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P335941

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1948646	GULL2-qPCR	59.0		P	50 - 300
1948647	GULL2-qPCR	53.4		P	50 - 300
1948780	GULL2-qPCR	50.2		P	50 - 300
1949076	GULL2-qPCR	56.3		P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P337630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940859	GFD-purified-qPCR	159		P	50 - 175
1948647	GFD-purified-qPCR	74.2		P	50 - 175
1949076	GFD-purified-qPCR	105		P	50 - 175
1956533	GFD-purified-qPCR	274		F	50 - 175
1956534	GFD-purified-qPCR	302		F	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.4
Batch ID: P335941

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1948645	BacR-qPCR	78.8	67.6	P/P	50 - 175
1948646	BacR-qPCR	58.1		P	50 - 175
1948647	BacR-qPCR	53.6		P	50 - 175
1948649	BacR-qPCR	88.8		P	50 - 175
1948780	BacR-qPCR	67.8		P	50 - 175
1948781	BacR-qPCR	64.7		P	50 - 175
1948782	BacR-qPCR	56.7		P	50 - 175
1948783	BacR-qPCR	67.1		P	50 - 175
1948784	BacR-qPCR	53.0		P	50 - 175
1949076	BacR-qPCR	94.5		P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P336656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1948823	Chlorophyll-a, Corrected	4.50	Sample	P	0 - 25
1948823	Chlorophyll-a, Uncorrected	5.25	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P335941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1948645	HF183-qPCR	24.6	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P337630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955375	GFD-purified-qPCR	74.0	Spike	F	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P335941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946394	BacR-qPCR	0.237	Spike	P	0 - 25
1947122	BacR-qPCR	3.82	Spike	P	0 - 25
1948645	BacR-qPCR	15.3	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

Quality Assurance Report Surrogates

Lab Sample ID: 1948645
Field Sample ID: G2NE0899

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	105	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	108	P	50 - 300

Lab Sample ID: 1948646
Field Sample ID: G2NE0959

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	112	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	112	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	120	P	50 - 300

Lab Sample ID: 1948647
Field Sample ID: G2NE0966

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	101	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	108	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	102	P	50 - 300

Lab Sample ID: 1948648
Field Sample ID: G2NE0089

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

Lab Sample ID: 1948649
Field Sample ID: G2NE0801

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	104	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	125	P	50 - 300

Lab Sample ID: 1948650
Field Sample ID: G2NE0760

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	108	P	50 - 300

Lab Sample ID: 1948651
Field Sample ID: G2NE0961

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	105	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	110			4.50	
	Chlorophyll-a, Uncorrected				5.25	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
SOP-PCR-1.0	HF183-qPCR	95.4	126	96.4	85.5	88.6			24.6
SOP-PCR-1.2	GULL2-qPCR	115	72.0	59.0	53.4	50.2			
SOP-PCR-1.3	GFD-purified-qPCR	39.7	125	274	302	159			74.0
SOP-PCR-1.4	BacR-qPCR	136	88.4	144	78.8	67.6	58.1		15.3 3.82
		120			53.6				0.237

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	1948629, 1948630, 1948631, 1948632
SM 9223 B / E82502	Escherichia coli by Colilert Quanti-Tray method by ALS Environmental Overflow Laboratory for Northeast District	1948636, 1948637, 1948638, 1948639, 1948640, 1948641, 1948642
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	1948645, 1948646, 1948647, 1948648, 1948649, 1948650, 1948651
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	1948646, 1948647
SOP-PCR-1.3 / E31780	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	1948647
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	1948645, 1948646, 1948647, 1948649
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	1948645, 1948646, 1948647, 1948648, 1948649, 1948650, 1948651

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 10200 H (mod.)	11/28/2017	11/28/2017 12:38	Cathy Sherrer	12/07/2017	Kim M. Spencer	1948629, 1948630, 1948631, 1948632
SM 9223 B	11/27/2017	11/27/2017 15:12		11/28/2017 16:28	ALS Environmental, Jax	1948636, 1948637, 1948638, 1948639, 1948640, 1948641, 1948642
SOP-PCR-1.0	11/28/2017	11/28/2017 13:30	Sarah Menz	12/08/2017	Sarah Menz	1948645, 1948646, 1948647, 1948648, 1948649, 1948650, 1948651
SOP-PCR-1.2	11/28/2017	11/28/2017 13:30	Sarah Menz	01/03/2018	Sarah Menz	1948646, 1948647
SOP-PCR-1.3	11/28/2017	11/28/2017 13:30	Avril Wood	01/05/2018	Sarah Menz	1948647
SOP-PCR-1.4	11/28/2017	11/28/2017 13:30	Sarah Menz	12/29/2017	Sarah Menz	1948645, 1948646, 1948647, 1948649
SOP-PCR-4.0	11/28/2017	11/28/2017 13:30	Sarah Menz	12/28/2017	Puja Jasrotia	1948645, 1948646, 1948647, 1948648, 1948649, 1948650, 1948651