

Biological Analysis Report

NE-DIST-2018-07-12-03

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

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

Event Description: **LSJR Southside 2**
Request ID: **RQ-2018-07-09-14**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Cheryl A. Swanson, Program Administrator

Date Certified: 21-AUG-2018 12:46



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: DEEP BOTTOM CREEK AT SCOTT MILL RD

Collection Date/Time: 07/11/2018 12:45

Field ID: 20030595

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006915	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.7		ug/L	P348636	
		Phaeophytin-a	2.4		ug/L	P348636	
		Chlorophyll-a, Uncorrected	5.3		ug/L	P348636	
2006921	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	173		MPN/100 mL		
2006929	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Ref. Method and Comment:

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

Sample Location: DEEP BOTTOM CREEK AT I-295

Collection Date/Time: 07/11/2018 13:35

Field ID: 20030596

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006916	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.8		ug/L	P348636	
		Phaeophytin-a	0.91	I	ug/L	P348636	
		Chlorophyll-a, Uncorrected	2.4		ug/L	P348636	
2006922	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	884		MPN/100 mL		
2006930	SOP-PCR-1.0	HF183-qPCR**	280	U	GEU/100 mL	P349103	
	SOP-PCR-1.2	GULL2-qPCR**	1.7E+04	U	TSC/100 mL	P349103	
	SOP-PCR-1.3	GFD-purified-qPCR**	1.74E+03		TSC/100 mL	P349601	MS
	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P349103	LCS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Ref. Method and Comment:

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

SOP-PCR-1.2: Precision data unavailable for Analysis Batch A85710

Sample Location: DEEP BOTTOM CR AT CHEATHAM TRAIL

Collection Date/Time: 07/11/2018 13:10

Field ID: 20030592

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006917	SM 10200 H (mod.)	Chlorophyll-a, Corrected	4.1		ug/L	P348636	
		Phaeophytin-a	3.9		ug/L	P348636	
		Chlorophyll-a, Uncorrected	6.6		ug/L	P348636	
2006923	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	96		MPN/100 mL		
2006931	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Ref. Method and Comment:

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

Sample Location: CORMORANT BRANCH @ MARBON RD

Collection Date/Time: 07/11/2018 11:20

Field ID: 20030852dup

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006927	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	1110		MPN/100 mL		
2006933	SOP-PCR-1.0	HF183-qPCR**	280	U	GEU/100 mL	P349103	
	SOP-PCR-1.2	GULL2-qPCR**	1.7E+04	U	TSC/100 mL	P349103	
	SOP-PCR-1.3	GFD-purified-qPCR**	170	U	TSC/100 mL	P349601	MS

Field ID: 20030852dup

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006933	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P349103	LCS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Ref. Method and Comment:
 SOP-PCR-1.2: Precision data unavailable for Analysis Batch A85710

Sample Location: CORMORANT BRANCH AT JULINGTON CREEK ROAD

Collection Date/Time: 07/11/2018 10:10

Field ID: 20030685

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006918	SM 10200 H (mod.)	Chlorophyll-a, Corrected	10		ug/L	P348636	
		Phaeophytin-a	2.6		ug/L	P348636	
		Chlorophyll-a, Uncorrected	12		ug/L	P348636	
2006924	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	86		MPN/100 mL		
2006932	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Ref. Method and Comment:
 SM 10200 H (mod.): Precision data is not available for Phaeophytin-a due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: CORMORANT BRANCH @ MARBON RD

Collection Date/Time: 07/11/2018 11:15

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006928	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	717		MPN/100 mL		
2006934	SOP-PCR-1.0	HF183-qPCR**	280	U	GEU/100 mL	P349103	
	SOP-PCR-1.2	GULL2-qPCR**	1.7E+04	U	TSC/100 mL	P349103	
	SOP-PCR-1.3	GFD-purified-qPCR**	320	I	TSC/100 mL	P349601	MS
	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P349103	LCS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Ref. Method and Comment:
 SOP-PCR-1.2: Precision data unavailable for Analysis Batch A85710

Sample Location: OLDFIELD CR @ LORETTO RD

Collection Date/Time: 07/11/2018 11:40

Field ID: 20030563

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006919	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.9		ug/L	P348636	
		Phaeophytin-a	1.4		ug/L	P348636	
		Chlorophyll-a, Uncorrected	2.7		ug/L	P348636	
2006925	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	135		MPN/100 mL		

Ref. Method and Comment:
 SM 10200 H (mod.): Precision data is not available for Phaeophytin-a due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: OLDFIELD CR @ JULINGTON CREEK ROAD

Collection Date/Time: 07/11/2018 10:40

Field ID: 20030684

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006920	SM 10200 H (mod.)	Chlorophyll-a, Corrected	7.5		ug/L	P348636	

Field ID: 20030684

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006920	SM 10200 H (mod.)	Phaeophytin-a	0.48	I	ug/L	P348636	
		Chlorophyll-a, Uncorrected	8.1		ug/L		
2006926	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	1260		MPN/100 mL		

Ref. Method and Comment:
SM 10200 H (mod.): Precision data is not available for Phaeophytin-a 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: P348636

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: P349103

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

Reference Method: SOP-PCR-1.2
Batch ID: P349103

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

Reference Method: SOP-PCR-1.3
Batch ID: P349601

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

Reference Method: SOP-PCR-1.4
Batch ID: P349103

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: P348636

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	98.0		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P349103

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

Reference Method: SOP-PCR-1.0
Batch ID: P349103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	102	142	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P349103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	85.6	133	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P349601

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	128	101	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P349103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	107	222	P/F	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P349103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2005377	HF183-qPCR	108		P	50 - 175
2005936	HF183-qPCR	107		P	50 - 175
2005939	HF183-qPCR	96.2		P	50 - 175
2005940	HF183-qPCR	104		P	50 - 175
2006654	HF183-qPCR	108		P	50 - 175
2006655	HF183-qPCR	97.7		P	50 - 175
2006930	HF183-qPCR	104		P	50 - 175
2006933	HF183-qPCR	102		P	50 - 175
2006934	HF183-qPCR	95.6		P	50 - 175
2007936	HF183-qPCR	97.7		P	50 - 175
2009105	HF183-qPCR	99.3		P	50 - 175
2010653	HF183-qPCR	104		P	50 - 175
2010654	HF183-qPCR	105	102	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P349103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2005377	GULL2-qPCR	89.8		P	50 - 300
2005939	GULL2-qPCR	74.2		P	50 - 300
2006654	GULL2-qPCR	82.8		P	50 - 300
2006930	GULL2-qPCR	88.4		P	50 - 300
2006933	GULL2-qPCR	99.5		P	50 - 300
2006934	GULL2-qPCR	87.5		P	50 - 300

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.2
Batch ID: P349103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010653	GULL2-qPCR	126		P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P349601

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2005377	GFD-purified-qPCR	260		F	50 - 175
2005939	GFD-purified-qPCR	192		F	50 - 175
2006654	GFD-purified-qPCR	0.0		F	50 - 175
2006930	GFD-purified-qPCR	154		P	50 - 175
2006933	GFD-purified-qPCR	162		P	50 - 175
2006934	GFD-purified-qPCR	153		P	50 - 175
2010653	GFD-purified-qPCR	134		P	50 - 175
2012938	GFD-purified-qPCR	251		F	50 - 175
2012939	GFD-purified-qPCR	187		F	50 - 175
2012940	GFD-purified-qPCR	311	344	F/F	50 - 175
2012941	GFD-purified-qPCR	265		F	50 - 175
2012942	GFD-purified-qPCR	179		F	50 - 175
2012943	GFD-purified-qPCR	189		F	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P349103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2005377	BacR-qPCR	78.3		P	50 - 175
2005939	BacR-qPCR	75.3		P	50 - 175
2006654	BacR-qPCR	74.3		P	50 - 175
2006930	BacR-qPCR	93.9		P	50 - 175
2006933	BacR-qPCR	85.7		P	50 - 175
2006934	BacR-qPCR	80.0		P	50 - 175
2010653	BacR-qPCR	72.7		P	50 - 175
2010654	BacR-qPCR	74.6	70.5	P/P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P348636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006843	Chlorophyll-a, Corrected	3.03	Sample	P	0 - 25
2006843	Chlorophyll-a, Uncorrected	3.23	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P349103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010654	HF183-qPCR	2.26	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: SOP-PCR-1.3
Batch ID: P349601

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012940	GFD-purified-qPCR	10.0	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P349103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010654	BacR-qPCR	5.67	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: 2006930
Field Sample ID: 20030596

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	106	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	132	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	128	P	50 - 300

Lab Sample ID: 2006933
Field Sample ID: 20030852dup

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	106	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	135	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	136	P	50 - 300

Lab Sample ID: 2006934
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	112	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	129	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	128	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	98.0						3.03	
	Chlorophyll-a, Uncorrected							3.23	
SOP-PCR-1.0	HF183-qPCR	142	102	104	108	107			2.26
				96.2					
SOP-PCR-1.2	GULL2-qPCR	133	85.6	126	89.8	74.2			
				82.8					

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
SOP-PCR-1.3	GFD-purified-qPCR	101	128	251	187	311			10.0
SOP-PCR-1.4	BacR-qPCR	222	107	72.7	78.3	75.3			5.67
				344					
				74.3					

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	2006915, 2006916, 2006917, 2006918, 2006919, 2006920
SM 9223 B Quanti-Tray / E82502	Escherichia coli by Colilert Quanti-Tray method by ALS Environmental Laboratory in Jacksonville	2006921, 2006922, 2006923, 2006924, 2006925, 2006926, 2006927, 2006928
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2006930, 2006933, 2006934
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2006930, 2006933, 2006934
SOP-PCR-1.3 / E31780	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	2006930, 2006933, 2006934
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2006930, 2006933, 2006934
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	2006929, 2006930, 2006931, 2006932, 2006933, 2006934

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 10200 H (mod.)	07/12/2018	07/12/2018 14:50	Jennifer Mihalic	07/17/2018 08:25	Carina A. Tull	2006915, 2006916, 2006917, 2006918, 2006919, 2006920
SM 9223 B Quanti-Tray	07/11/2018	07/11/2018 15:53		07/12/2018 16:50	ALS Environmental, Jax	2006921, 2006922, 2006923, 2006924, 2006925, 2006926, 2006927, 2006928
SOP-PCR-1.0	07/12/2018	07/12/2018 13:30	Sarah Menz	08/02/2018 09:41	Mailin Lopez	2006930, 2006933, 2006934
SOP-PCR-1.2	07/12/2018	07/12/2018 13:30	Sarah Menz	08/06/2018 14:51	Mailin Lopez	2006930, 2006933, 2006934
SOP-PCR-1.3	07/12/2018	07/12/2018 13:30	Angela Smith	08/09/2018 08:59	Sarah Menz	2006930, 2006933, 2006934
SOP-PCR-1.4	07/12/2018	07/12/2018 13:30	Sarah Menz	08/02/2018 14:19	Mailin Lopez	2006930, 2006933, 2006934
SOP-PCR-4.0	07/12/2018	07/12/2018 13:30	Angela Smith	07/26/2018 10:05	Sarah Menz	2006929, 2006930, 2006931, 2006932, 2006933, 2006934