

Biological Analysis Report

SW-DIST-2019-04-03-01

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

Overflow Analyses Performed By:
Benchmark Environmental, Inc.
1711 12th Street East
Palmetto, FL 34221
DOH Accreditation E84167

Event Description: **PP Ditch 1&5, 34th St., McKay Tidal**

Request ID: **RQ-2019-04-01-07**

Customer: **SW-DIST**

Project ID: **SMP**

Send Reports to:

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Certified by: Jacqueline Savage, Environmental Administrator

Date Certified: 15-MAY-2019 11:54



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: 34Tth Street Basin @ 11Ave S

Collection Date/Time: 04/02/2019 12:10

Field ID: G5SW0146

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074719	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.5	I	ug/L	P362448	
		Phaeophytin-a	1.5	U	ug/L	P362448	
		Chlorophyll-a, Uncorrected	2.4	I	ug/L	P362448	
2074722	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P361913	
	SOP-PCR-1.2	GULL2-qPCR**	3.3E+04	I	TSC/100 mL	P361913	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P361913	MS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold			P361044	
2074725	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	3873		MPN/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.

SOP-PCR-1.2: Precision data unavailable for Analysis Batch A90879

Sample Location: PP Ditch#1 @ 71st St

Collection Date/Time: 04/02/2019 11:30

Field ID: G5SW0134

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074720	SM 10200 H (mod.)	Chlorophyll-a, Corrected	7.8		ug/L	P362448	
		Phaeophytin-a	1.8	I	ug/L	P362448	
		Chlorophyll-a, Uncorrected	9.0		ug/L	P362448	
2074723	SOP-PCR-1.0	HF183-qPCR**	94	U	GEU/100 mL	P362090	LCS
	SOP-PCR-1.2	GULL2-qPCR**	5.6E+03	U	TSC/100 mL	P362090	
	SOP-PCR-1.3	GFD-purified-qPCR**	140	IJ	TSC/100 mL	P362765	LCS, MS, RPD
	SOP-PCR-1.4	BacR-qPCR**	1.0E+03	U	TSC/100 mL	P362090	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold			P361044	
2074726	Enterolert/QT	Enterococci-Quanti-Tray	9208		MPN/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.

SOP-PCR-1.2: Precision data unavailable for Analysis Batch A91078

SOP-PCR-1.3: Quality control failure(s) observed. See QA report for details.

SOP-PCR-1.4: Precision data unavailable for Analysis Batch A91055

Sample Location: McKay Creek Tidal off Hickory

Collection Date/Time: 04/02/2019 10:20

Field ID: G5SW0130

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074721	SM 10200 H (mod.)	Chlorophyll-a, Corrected	8.9		ug/L	P362448	
		Phaeophytin-a	0.82	U	ug/L	P362448	
		Chlorophyll-a, Uncorrected	9.5		ug/L	P362448	
2074724	SOP-PCR-1.0	HF183-qPCR**	94	U	GEU/100 mL	P362090	LCS
	SOP-PCR-1.2	GULL2-qPCR**	5.6E+03	U	TSC/100 mL	P362090	
	SOP-PCR-1.3	GFD-purified-qPCR**	690	J	TSC/100 mL	P362765	LCS, MS, RPD
	SOP-PCR-1.4	BacR-qPCR**	1.0E+03	U	TSC/100 mL	P362090	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold			P361044	
2074727	Enterolert/QT	Enterococci-Quanti-Tray	1333		MPN/100 mL		

Field ID: G5SW0130

Matrix: W-SURF-SLT

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-1.2: Precision data unavailable for Analysis Batch A91078 SOP-PCR-1.3: Quality control failure(s) observed. See QA report for details. SOP-PCR-1.4: Precision data unavailable for Analysis Batch A91055							

Quality Assurance Report
Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P362448

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.62	U	ug/L
Chlorophyll-a, Uncorrected	0.45	U	ug/L
Phaeophytin-a	0.68	U	ug/L

Reference Method: SOP-PCR-1.0
Batch ID: P361913

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

Reference Method: SOP-PCR-1.0
Batch ID: P362090

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

Reference Method: SOP-PCR-1.2
Batch ID: P361913

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

Reference Method: SOP-PCR-1.2
Batch ID: P362090

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

Reference Method: SOP-PCR-1.3
Batch ID: P362765

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

Reference Method: SOP-PCR-1.4
Batch ID: P361913

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

Quality Assurance Report Method Blank Results

Reference Method: SOP-PCR-1.4
Batch ID: P362090

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: P362448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	102		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P361913

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	99.7	153	P/P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P362090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	117	197	P/F	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P361913

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	154	202	P/P	50 - 300

Reference Method: SOP-PCR-1.2
Batch ID: P362090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	133	233	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P362765

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	128	29.7	P/F	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P361913

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	110	83.8	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P362090

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

Reference Method: SOP-PCR-1.4
Batch ID: P362090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	85.3	95.1	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P361913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069298	HF183-qPCR	92.0		P	50 - 175
2070024	HF183-qPCR	113		P	50 - 175
2070548	HF183-qPCR	79.3		P	50 - 175
2071394	HF183-qPCR	81.6		P	50 - 175
2071762	HF183-qPCR	67.7		P	50 - 175
2072420	HF183-qPCR	78.4		P	50 - 175
2074722	HF183-qPCR	67.4		P	50 - 175
2077085	HF183-qPCR	89.1		P	50 - 175
2077086	HF183-qPCR	99.6		P	50 - 175
2077952	HF183-qPCR	75.8		P	50 - 175
2077953	HF183-qPCR	87.1		P	50 - 175
2077954	HF183-qPCR	78.5		P	50 - 175
2077955	HF183-qPCR	79.2	73.8	P/P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P362090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074723	HF183-qPCR	92.9		P	50 - 175
2074724	HF183-qPCR	110		P	50 - 175
2078276	HF183-qPCR	84.2		P	50 - 175
2078277	HF183-qPCR	103	103	P/P	50 - 175
2078278	HF183-qPCR	88.2		P	50 - 175
2078279	HF183-qPCR	99.9		P	50 - 175
2078280	HF183-qPCR	101		P	50 - 175
2078707	HF183-qPCR	107		P	50 - 175
2079340	HF183-qPCR	100		P	50 - 175
2079341	HF183-qPCR	94.1		P	50 - 175
2079342	HF183-qPCR	103		P	50 - 175
2079788	HF183-qPCR	99.6		P	50 - 175
2079795	HF183-qPCR	98.1		P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P361913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069298	GULL2-qPCR	115		P	50 - 300
2070024	GULL2-qPCR	114		P	50 - 300
2070548	GULL2-qPCR	136		P	50 - 300
2071762	GULL2-qPCR	97.8		P	50 - 300
2074722	GULL2-qPCR	96.0		P	50 - 300
2077085	GULL2-qPCR	118		P	50 - 300

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.2

Batch ID: P361913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2077086	GULL2-qPCR	150		P	50 - 300

Reference Method: SOP-PCR-1.2

Batch ID: P362090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074723	GULL2-qPCR	74.8		P	50 - 300
2074724	GULL2-qPCR	118		P	50 - 300

Reference Method: SOP-PCR-1.3

Batch ID: P362765

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074723	GFD-purified-qPCR	75.8		P	50 - 175
2074724	GFD-purified-qPCR	110		P	50 - 175
2080247	GFD-purified-qPCR	234	162	F/P	50 - 175
2080248	GFD-purified-qPCR	158		P	50 - 175
2081275	GFD-purified-qPCR	132		P	50 - 175
2081276	GFD-purified-qPCR	156		P	50 - 175
2081376	GFD-purified-qPCR	163		P	50 - 175
2081377	GFD-purified-qPCR	144		P	50 - 175
2081378	GFD-purified-qPCR	162		P	50 - 175
2081891	GFD-purified-qPCR	178		F	50 - 175
2081892	GFD-purified-qPCR	111		P	50 - 175
2083121	GFD-purified-qPCR	116		P	50 - 175
2083122	GFD-purified-qPCR	249		F	50 - 175
2083298	GFD-purified-qPCR	78.9		P	50 - 175

Reference Method: SOP-PCR-1.4

Batch ID: P361913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2069298	BacR-qPCR	76.8		P	50 - 175
2070024	BacR-qPCR	51.3		P	50 - 175
2070548	BacR-qPCR	56.7		P	50 - 175
2071762	BacR-qPCR	72.6		P	50 - 175
2074722	BacR-qPCR	57.3		P	50 - 175
2077952	BacR-qPCR	54.2		P	50 - 175
2077953	BacR-qPCR	57.8		P	50 - 175
2077954	BacR-qPCR	44.8		F	50 - 175
2077955	BacR-qPCR	74.7	74.4	P/P	50 - 175

Reference Method: SOP-PCR-1.4

Batch ID: P362090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074723	BacR-qPCR	56.2		P	50 - 175
2074724	BacR-qPCR	61.4		P	50 - 175
2078707	BacR-qPCR	73.8		P	50 - 175
2079340	BacR-qPCR	76.6		P	50 - 175
2079341	BacR-qPCR	73.4		P	50 - 175
2079342	BacR-qPCR	83.5		P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.4
Batch ID: P362090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079788	BacR-qPCR	78.6		P	50 - 175
2079795	BacR-qPCR	77.1		P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P362448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074704	Chlorophyll-a, Corrected	16.3	Sample	P	0 - 25
2074704	Chlorophyll-a, Uncorrected	22.2	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P361913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2077955	HF183-qPCR	7.14	Spike	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P362090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2078277	HF183-qPCR	0.0378	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P362765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2080247	GFD-purified-qPCR	36.3	Spike	F	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P361913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2077955	BacR-qPCR	0.391	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: 2074722
Field Sample ID: G5SW0146

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	117	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	99.6	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	94.3	P	50 - 300

Lab Sample ID: 2074723
Field Sample ID: G5SW0134

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	75.3	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	95.8	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	73.7	P	50 - 300

Lab Sample ID: 2074724
Field Sample ID: G5SW0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	100	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	123	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	97.2	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	102						16.3	
	Chlorophyll-a, Uncorrected							22.2	
SOP-PCR-1.0	HF183-qPCR	153	99.7	75.8	87.1	78.5			7.14
	HF183-qPCR	197	117	79.2	110	84.2			0.0378
SOP-PCR-1.2	GULL2-qPCR	202	154	103	136	150			
	GULL2-qPCR	233	133	118	118				
SOP-PCR-1.3	GFD-purified-qPCR	29.7	128	74.8	162	158			36.3
	BacR-qPCR	83.8	110	132	57.3	51.3			0.391
SOP-PCR-1.4	BacR-qPCR	95.1	85.3	72.6	61.4	73.8			
				56.7	76.6				

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
Enterolert/QT / E84167	Enterococci by Enterolert Quanti-Tray method by Benchmark EnviroAnalytical in Palmetto	2074726, 2074727
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	2074719, 2074720, 2074721
SM 9223 B Quanti-Tray / E84167	Escherichia coli by Colilert Quanti-Tray method by Benchmark EnviroAnalytical in Palmetto	2074725
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2074722, 2074723, 2074724

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific <i>Catelliboccus marimammalium</i> Gull2 genetic marker with quantitative polymerase chain reaction	2074722, 2074723, 2074724
SOP-PCR-1.3 / E31780	Detection and quantification of bird specific <i>Helicobacter</i> GFD genetic marker with quantitative polymerase chain reaction	2074723, 2074724
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific <i>Bacteroidetes</i> BacR genetic marker with quantitative polymerase chain reaction	2074722, 2074723, 2074724
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	2074722, 2074723, 2074724

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
Enterolert/QT	04/02/2019	04/02/2019 14:30		04/03/2019 14:53	Benchmark EnviroAnalytical - Palmetto	2074726, 2074727
SM 10200 H (mod.)	04/03/2019	04/03/2019 14:20	Edwin Gonzalez-Soto	04/16/2019 15:33	Jennifer Mihalic	2074719, 2074720, 2074721
SM 9223 B Quanti-Tray	04/02/2019	04/02/2019 14:47		04/03/2019 16:34	Benchmark EnviroAnalytical - Palmetto	2074725
SOP-PCR-1.0	04/03/2019	04/03/2019 12:50	Sarah Menz	04/18/2019 12:02	Mailin Lopez	2074722
	04/03/2019	04/03/2019 12:50	Sarah Menz	04/26/2019 13:12	Mailin Lopez	2074723, 2074724
SOP-PCR-1.2	04/03/2019	04/03/2019 12:50	Sarah Menz	04/22/2019 09:44	Mailin Lopez	2074722
	04/03/2019	04/03/2019 12:50	Sarah Menz	04/29/2019 14:28	Mailin Lopez	2074723, 2074724
SOP-PCR-1.3	04/03/2019	04/03/2019 12:50	Angela Smith	05/09/2019 09:24	Sarah Menz	2074723, 2074724
SOP-PCR-1.4	04/03/2019	04/03/2019 12:50	Sarah Menz	04/19/2019 12:02	Mailin Lopez	2074722
	04/03/2019	04/03/2019 12:50	Sarah Menz	04/29/2019 10:24	Mailin Lopez	2074723, 2074724
SOP-PCR-4.0	04/03/2019	04/03/2019 12:50	Angela Smith	04/15/2019 09:28	Sarah Menz	2074722, 2074723, 2074724