

Biological Analysis Report

SE-DIST-2020-02-18-01

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

Event Description: **SMP- LW Drainage**
Request ID: **RQ-2020-01-27-23**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Matthew Sewell

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Certified by: Puja Jasrotia, Environmental Manager

Date Certified: 16-MAR-2020 11:33

A handwritten signature in black ink, appearing to be 'Puja Jasrotia', with a horizontal line underneath it.

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 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: E-2 West @ Atlantic

Collection Date/Time: 02/17/2020 10:50

Field ID: G3SE0007

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2158489	SM 10200 H (mod.)	Chlorophyll-a, Corrected	14		ug/L	P379370	
		Phaeophytin-a	3.4		ug/L	P379370	
		Chlorophyll-a, Uncorrected	16		ug/L	P379370	
2158495	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	25.6	Q	MPN/100 mL	P379359	

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: E-1 West @ Glades

Collection Date/Time: 02/17/2020 11:20

Field ID: G3SE0033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2158490	SM 10200 H (mod.)	Chlorophyll-a, Corrected	12		ug/L	P379370	
		Phaeophytin-a	2.3	I	ug/L	P379370	
		Chlorophyll-a, Uncorrected	14		ug/L	P379370	
2158496	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	162.4	Q	MPN/100 mL	P379359	

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: Hillsboro Canal @ Pioneer Park

Collection Date/Time: 02/17/2020 12:30

Field ID: G3SE0028

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2158493	Enterolert/QT	Enterococci-Quanti-Tray	10.0	Q	MPN/100 mL	P379359	

Ref. Method and Comment:

Enterolert/QT: Laboratory duplicate result is 10.0 U. Precision data is unavailable due to the small amount of analyte in the QC sample.

Sample Location: E-4 @ Clint Moore

Collection Date/Time: 02/17/2020 13:00

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2158491	SM 10200 H (mod.)	Chlorophyll-a, Corrected	7.2		ug/L	P379370	
		Phaeophytin-a	3.2		ug/L	P379370	
		Chlorophyll-a, Uncorrected	9.4		ug/L	P379370	
2158497	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	309.0	Q	MPN/100 mL	P379359	
2158499	SOP-PCR-1.0	HF183-qPCR**	71	U	GEU/100 mL	P378875	
	SOP-PCR-1.2	GULL2-qPCR**	4.2E+03	U	TSC/100 mL	P378875	
	SOP-PCR-1.3	GFD-purified-qPCR**	84	U	TSC/100 mL	P379915	LCS, MS
	SOP-PCR-1.4	BacR-qPCR**	760	U	TSC/100 mL	P378875	LCS
	SOP-PCR-1.5	DG3-qPCR**	640	U	TSC/100 mL	P378875	

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 A98078

Sample Location: E-4 @ Clint Moore

Collection Date/Time: 02/17/2020 13:10

Field ID: G3SE0019_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2158492	SM 10200 H (mod.)	Chlorophyll-a, Corrected	7.0		ug/L	P379370	
		Phaeophytin-a	3.2		ug/L	P379370	
		Chlorophyll-a, Uncorrected	9.2		ug/L	P379370	
2158498	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	256.0	Q	MPN/100 mL	P379359	
2158500	SOP-PCR-1.0	HF183-qPCR**	71	U	GEU/100 mL	P378875	
	SOP-PCR-1.2	GULL2-qPCR**	4.2E+03	U	TSC/100 mL	P379867	
	SOP-PCR-1.3	GFD-purified-qPCR**	84	U	TSC/100 mL	P379915	LCS, MS
	SOP-PCR-1.4	BacR-qPCR**	760	U	TSC/100 mL	P378875	LCS
	SOP-PCR-1.5	DG3-qPCR**	640	U	TSC/100 mL	P378875	

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 A98079

Sample Location: Tidal Creek to Lox

Collection Date/Time: 02/17/2020 14:20

Field ID: G2SE0027

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2158488	SM 10200 H (mod.)	Chlorophyll-a, Corrected	11		ug/L	P379370	
		Phaeophytin-a	0.94	I	ug/L	P379370	
		Chlorophyll-a, Uncorrected	12		ug/L	P379370	
2158494	Enterolert/QT	Enterococci-Quanti-Tray	41.0	Q	MPN/100 mL	P379359	

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.

Enterolert/QT: Precision data is unavailable due to the small amount of analyte in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: Enterolert/QT

Batch ID: P379359

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

Reference Method: SM 10200 H (mod.)

Batch ID: P379370

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.82	U	ug/L
Chlorophyll-a, Uncorrected	0.60	U	ug/L
Phaeophytin-a	0.90	U	ug/L

Reference Method: SM 9223 Quanti-Tray

Batch ID: P379359

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

Quality Assurance Report Method Blank Results

Reference Method: SOP-PCR-1.0
Batch ID: P378875

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

Reference Method: SOP-PCR-1.2
Batch ID: P378875

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

Reference Method: SOP-PCR-1.2
Batch ID: P379867

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

Reference Method: SOP-PCR-1.3
Batch ID: P379915

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

Reference Method: SOP-PCR-1.4
Batch ID: P378875

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

Reference Method: SOP-PCR-1.5
Batch ID: P378875

Component	Result	Code	Units
DG3-qPCR	2.6E+03	U	TSC/100 mL

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P379370

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	97.2		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P378875

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	131	111	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P378875

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

Reference Method: SOP-PCR-1.2
Batch ID: P378875

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	102	117	P/P	50 - 300

Reference Method: SOP-PCR-1.2
Batch ID: P379867

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	102	117	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P379915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	89.5	8.37	P/F	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P378875

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	102	217	P/F	50 - 175

Reference Method: SOP-PCR-1.5
Batch ID: P378875

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DG3-qPCR	109	105	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P378875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2157508	HF183-qPCR	121	118	P/P	50 - 175
2157661	HF183-qPCR	120		P	50 - 175
2158499	HF183-qPCR	106		P	50 - 175
2158500	HF183-qPCR	113		P	50 - 175
2158557	HF183-qPCR	120		P	50 - 175
2158855	HF183-qPCR	99.0		P	50 - 175
2159056	HF183-qPCR	102		P	50 - 175
2159689	HF183-qPCR	95.5		P	50 - 175
2159690	HF183-qPCR	119		P	50 - 175
2160399	HF183-qPCR	121		P	50 - 175
2160400	HF183-qPCR	123		P	50 - 175
2160474	HF183-qPCR	126		P	50 - 175
2160504	HF183-qPCR	124		P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P378875

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-1.2

Batch ID: P378875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2157661	GULL2-qPCR	69.6		P	50 - 300
2158499	GULL2-qPCR	72.3		P	50 - 300
2158855	GULL2-qPCR	55.0		P	50 - 300
2159056	GULL2-qPCR	65.4		P	50 - 300
2160399	GULL2-qPCR	80.1		P	50 - 300
2160400	GULL2-qPCR	80.2		P	50 - 300
2160474	GULL2-qPCR	79.7		P	50 - 300
2160504	GULL2-qPCR	92.6		P	50 - 300

Reference Method: SOP-PCR-1.2

Batch ID: P379867

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158500	GULL2-qPCR	71.5		P	50 - 300

Reference Method: SOP-PCR-1.3

Batch ID: P379915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2157661	GFD-purified-qPCR	97.7		P	50 - 175
2158499	GFD-purified-qPCR	94.3		P	50 - 175
2158500	GFD-purified-qPCR	93.2		P	50 - 175
2158855	GFD-purified-qPCR	56.4		P	50 - 175
2159056	GFD-purified-qPCR	99.6		P	50 - 175
2160399	GFD-purified-qPCR	116		P	50 - 175
2160400	GFD-purified-qPCR	235		F	50 - 175
2160474	GFD-purified-qPCR	120		P	50 - 175
2160504	GFD-purified-qPCR	120		P	50 - 175
2160505	GFD-purified-qPCR	139		P	50 - 175
2160595	GFD-purified-qPCR	85.3		P	50 - 175
2161864	GFD-purified-qPCR	90.4		P	50 - 175
2161865	GFD-purified-qPCR	104		P	50 - 175
2161866	GFD-purified-qPCR	110	101	P/P	50 - 175

Reference Method: SOP-PCR-1.4

Batch ID: P378875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2157508	BacR-qPCR	72.0	77.3	P/P	50 - 175
2157661	BacR-qPCR	70.6		P	50 - 175
2158499	BacR-qPCR	73.4		P	50 - 175
2158500	BacR-qPCR	92.9		P	50 - 175
2158557	BacR-qPCR	78.5		P	50 - 175
2158855	BacR-qPCR	56.4		P	50 - 175
2159056	BacR-qPCR	52.7		P	50 - 175
2159689	BacR-qPCR	61.9		P	50 - 175
2159690	BacR-qPCR	63.5		P	50 - 175
2160399	BacR-qPCR	62.3		P	50 - 175
2160400	BacR-qPCR	67.9		P	50 - 175
2160474	BacR-qPCR	71.2		P	50 - 175
2160504	BacR-qPCR	75.4		P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.5
Batch ID: P378875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2157508	DG3-qPCR	99.6	96.9	P/P	50 - 175
2157661	DG3-qPCR	102		P	50 - 175
2158499	DG3-qPCR	87.7		P	50 - 175
2158500	DG3-qPCR	112		P	50 - 175
2158557	DG3-qPCR	105		P	50 - 175
2158855	DG3-qPCR	96.6		P	50 - 175
2159056	DG3-qPCR	93.0		P	50 - 175
2159689	DG3-qPCR	91.8		P	50 - 175
2159690	DG3-qPCR	89.0		P	50 - 175
2160399	DG3-qPCR	117		P	50 - 175
2160400	DG3-qPCR	107		P	50 - 175
2160474	DG3-qPCR	99.1		P	50 - 175
2160504	DG3-qPCR	105		P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P379370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158428	Chlorophyll-a, Corrected	2.57	Sample	P	0 - 25
2158428	Chlorophyll-a, Uncorrected	2.63	Sample	P	0 - 25

Reference Method: SM 9223 Quanti-Tray
Batch ID: P379359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158315	Escherichia Coli-Quanti-Tray	45.1	Sample	P	0 - 80
2158419	Escherichia Coli-Quanti-Tray	10.9	Sample	P	0 - 80
2158704	Escherichia Coli-Quanti-Tray	0.494	Sample	P	0 - 80

Reference Method: SOP-PCR-1.0
Batch ID: P378875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2157508	HF183-qPCR	2.53	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P379915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161866	GFD-purified-qPCR	9.06	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: SOP-PCR-1.4
 Batch ID: P378875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2157508	BacR-qPCR	7.11	Spike	P	0 - 25

Reference Method: SOP-PCR-1.5
 Batch ID: P378875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2157508	DG3-qPCR	2.78	Spike	P	0 - 25

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2158499
 Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	80.2	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	75.9	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	88.4	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	77.2	P	50 - 300

Lab Sample ID: 2158500
 Field Sample ID: G3SE0019_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	77.6	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	84.9	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	93.6	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	77.7	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	97.2						2.57	
	Chlorophyll-a, Uncorrected							2.63	
SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray							45.1 10.9 0.494	
SOP-PCR-1.0	HF183-qPCR	111	131	121	118	120			2.53
				106					
SOP-PCR-1.2	GULL2-qPCR	117	102	69.6	72.3	55.0			
				65.4					
	GULL2-qPCR	117	102	71.5					
SOP-PCR-1.3	GFD-purified-qPCR	8.37	89.5	139	85.3	90.4			9.06
				104					
SOP-PCR-1.4	BacR-qPCR	217	102	72.0	77.3	70.6			7.11
				73.4					

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
SOP-PCR-1.5	DG3-qPCR	105	109	99.6	96.9	102			2.78
				87.7					

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
Enterolert/QT	Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems	2158493, 2158494
SM 10200 H (mod.)	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	2158488, 2158489, 2158490, 2158491, 2158492
SM 9223 Quanti-Tray	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems	2158495, 2158496, 2158497, 2158498
SOP-PCR-1.0	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2158499, 2158500
SOP-PCR-1.2	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2158499, 2158500
SOP-PCR-1.3	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	2158499, 2158500
SOP-PCR-1.4	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2158499, 2158500
SOP-PCR-1.5	Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction	2158499, 2158500

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
Enterolert/QT	02/18/2020	02/18/2020 14:20	Jessica Sherman	02/19/2020 15:43	Jessica Sherman	2158493, 2158494
SM 10200 H (mod.)	02/18/2020	02/18/2020 13:22	Yuliya Danyuk	02/20/2020 09:00	Jessica Fetgatter	2158488, 2158489, 2158490, 2158491, 2158492
SM 9223 Quanti-Tray	02/18/2020	02/18/2020 16:06	Jessica Sherman	02/19/2020 10:14	Jessica Sherman	2158495, 2158496, 2158497, 2158498
SOP-PCR-1.0	02/18/2020	02/18/2020 13:30	Angela Smith	02/28/2020 11:32	Lauren Campbell	2158499, 2158500
SOP-PCR-1.2	02/18/2020	02/18/2020 13:30	Angela Smith	03/09/2020 14:03	Mailin Lopez	2158499
	02/18/2020	02/18/2020 13:30	Lauren Campbell	03/09/2020 14:03	Mailin Lopez	2158500
SOP-PCR-1.3	02/18/2020	02/18/2020 13:30	Lauren Campbell	03/13/2020 08:13	Mailin Lopez	2158499, 2158500
SOP-PCR-1.4	02/18/2020	02/18/2020 13:30	Angela Smith	03/05/2020 12:38	Lauren Campbell	2158499, 2158500
SOP-PCR-1.5	02/18/2020	02/18/2020 13:30	Angela Smith	03/06/2020 10:58	Lauren Campbell	2158499, 2158500