

Biological Analysis Report

SO-DIST-2021-05-04-01

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

Overflow Analyses Performed By:
Sanders Laboratories
10090 Bavaria Road
Ft. Myers, FL 33913
DOH Accreditation E85457

Event Description: **2021 SMP : Estero Cricks**
Request ID: **RQ-2021-05-03-63**
Customer: **SO-DIST**
Project ID: **SMP**

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Date Certified: 07-JUN-2021 16:04



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: 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: Mullock Creek near US41

Collection Date/Time: 05/03/2021 10:10

Field ID: G1SD0100

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2244592	SOP-PCR-1.0	HF183-qPCR**	3.3E+03	U	TSC/100 mL	P397598	
	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P397598	
	SOP-PCR-1.5	DG3-qPCR**	2.7E+03	I	TSC/100 mL	P397598	
2244597	Colilert-18	Escherichia Coli-Quanti-Tray	19900		MPN/100 mL		

Ref. Method and Comment:
 SOP-PCR-1.5: Duplicate was analyzed and result is 2.6E+03 U.

Sample Location: Mullock Creek upstream of US 41

Collection Date/Time: 05/03/2021 10:45

Field ID: G1SD0005

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2244593	SOP-PCR-1.0	HF183-qPCR**	1.7E+03	U	TSC/100 mL	P397598	
	SOP-PCR-1.2	GULL2-qPCR**	1.8E+03	U	TSC/100 mL	P397598	
	SOP-PCR-1.3	GFD-qPCR**	1.4E+03	I	TSC/100 mL	P397598	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P397598	
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P397598	
2244598	Colilert-18	Escherichia Coli-Quanti-Tray	5480		MPN/100 mL		

Ref. Method and Comment:
 SOP-PCR-1.2: Precision data unavailable for Gull2-qPCR component.
 SOP-PCR-1.3: Precision data unavailable for GFD-qPCR component.

Sample Location: Hendry Creek @ Old Gladiolus Dr

Collection Date/Time: 05/03/2021 11:20

Field ID: G1SD0062

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2244594	SOP-PCR-1.0	HF183-qPCR**	830	U	TSC/100 mL	P397598	
	SOP-PCR-1.2	GULL2-qPCR**	900	U	TSC/100 mL	P397598	
	SOP-PCR-1.3	GFD-qPCR**	2.88E+03		TSC/100 mL	P397598	
	SOP-PCR-1.4	BacR-qPCR**	760	U	TSC/100 mL	P397598	
	SOP-PCR-1.5	DG3-qPCR**	640	U	TSC/100 mL	P397598	
2244599	Enterolert/QT	ENTEROCOCCI-ENTEROLERT	464		MPN/100 mL		

Ref. Method and Comment:
 SOP-PCR-1.2: Precision data unavailable for Gull2-qPCR component.
 SOP-PCR-1.3: Precision data unavailable for GFD-qPCR component.

Sample Location: Hendry Creek @ Gladiolus Rd

Collection Date/Time: 05/03/2021 11:40

Field ID: G1SD0097

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2244595	SOP-PCR-1.0	HF183-qPCR**	830	U	TSC/100 mL	P397598	
	SOP-PCR-1.2	GULL2-qPCR**	900	U	TSC/100 mL	P397598	
	SOP-PCR-1.3	GFD-qPCR**	950		TSC/100 mL	P397598	
	SOP-PCR-1.4	BacR-qPCR**	760	U	TSC/100 mL	P397598	
	SOP-PCR-1.5	DG3-qPCR**	640	U	TSC/100 mL	P397598	
2244600	Enterolert/QT	ENTEROCOCCI-ENTEROLERT	1300		MPN/100 mL		

Ref. Method and Comment:
 SOP-PCR-1.2: Precision data unavailable for Gull2-qPCR component.
 SOP-PCR-1.3: Precision data unavailable for GFD-qPCR component.

Sample Location: Henry Creek @ Summerlin Rd

Collection Date/Time: 05/03/2021 12:10

Field ID: G1SD0098

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2244596	SOP-PCR-1.0	HF183-qPCR**	1.7E+03	U	TSC/100 mL	P397598	
	SOP-PCR-1.2	GULL2-qPCR**	1.8E+03	U	TSC/100 mL	P397598	
	SOP-PCR-1.3	GFD-qPCR**	5.2E+03		TSC/100 mL	P397598	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P397598	
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P397598	
2244601	Enterolert/QT	ENTEROCOCCI-ENTEROLERT	2420	J	MPN/100 mL		

Ref. Method and Comment:

SOP-PCR-1.2: Precision data unavailable for Gull2-qPCR component.

SOP-PCR-1.3: Precision data unavailable for GFD-qPCR component.

Enterolert/QT: All Quanti-Tray wells were positive. Result may be higher than reported

Sample Location: Hendry Creek @ Whitney Way

Collection Date/Time: 05/03/2021 12:35

Field ID: G1SD0099

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2244612	SOP-PCR-1.0	HF183-qPCR**	830	U	TSC/100 mL	P397598	
	SOP-PCR-1.2	GULL2-qPCR**	1.8E+03	U	TSC/100 mL	P397598	
	SOP-PCR-1.3	GFD-qPCR**	1.3E+03	I	TSC/100 mL	P397598	
	SOP-PCR-1.4	BacR-qPCR**	760	U	TSC/100 mL	P397598	
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P397598	
2244621	Enterolert/QT	ENTEROCOCCI-ENTEROLERT	884		MPN/100 mL		

Ref. Method and Comment:

SOP-PCR-1.2: Precision data unavailable for Gull2-qPCR component.

SOP-PCR-1.3: Precision data unavailable for GFD-qPCR component.

Quality Assurance Report Method Blank Results

Reference Method: SOP-PCR-1.0

Batch ID: P397598

Component	Result	Code	Units
HF183-qPCR	3.3E+03	U	TSC/100 mL

Reference Method: SOP-PCR-1.2

Batch ID: P397598

Component	Result	Code	Units
GULL2-qPCR	3.6E+03	U	TSC/100 mL

Reference Method: SOP-PCR-1.3

Batch ID: P397598

Component	Result	Code	Units
GFD-qPCR	720	U	TSC/100 mL

Reference Method: SOP-PCR-1.4

Batch ID: P397598

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

Quality Assurance Report Method Blank Results

Reference Method: SOP-PCR-1.5
Batch ID: P397598

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P397598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	99.1	111	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P397598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	90.9	98.5	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P397598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-qPCR	99.0	94.8	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P397598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	97.3	67.3	P/P	50 - 175

Reference Method: SOP-PCR-1.5
Batch ID: P397598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DG3-qPCR	88.8	56.0	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P397598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244592	HF183-qPCR	82.0	87.6	P/P	50 - 175
2244593	HF183-qPCR	92.5		P	50 - 175
2244594	HF183-qPCR	88.8		P	50 - 175
2244595	HF183-qPCR	83.0		P	50 - 175
2244596	HF183-qPCR	90.3		P	50 - 175
2244612	HF183-qPCR	76.3		P	50 - 175
2244659	HF183-qPCR	83.6		P	50 - 175
2244660	HF183-qPCR	82.2		P	50 - 175
2244661	HF183-qPCR	82.2		P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0

Batch ID: P397598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244937	HF183-qPCR	86.5		P	50 - 175

Reference Method: SOP-PCR-1.2

Batch ID: P397598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244593	GULL2-qPCR	70.8		P	50 - 300
2244594	GULL2-qPCR	73.3		P	50 - 300
2244595	GULL2-qPCR	68.9		P	50 - 300
2244596	GULL2-qPCR	60.2		P	50 - 300
2244612	GULL2-qPCR	68.6		P	50 - 300

Reference Method: SOP-PCR-1.3

Batch ID: P397598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244593	GFD-qPCR	87.9		P	50 - 175
2244594	GFD-qPCR	72.7		P	50 - 175
2244595	GFD-qPCR	72.5		P	50 - 175
2244596	GFD-qPCR	73.2		P	50 - 175
2244612	GFD-qPCR	69.7		P	50 - 175

Reference Method: SOP-PCR-1.4

Batch ID: P397598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244592	BacR-qPCR	69.8	77.6	P/P	50 - 175
2244593	BacR-qPCR	82.4		P	50 - 175
2244594	BacR-qPCR	84.4		P	50 - 175
2244595	BacR-qPCR	68.6		P	50 - 175
2244596	BacR-qPCR	64.8		P	50 - 175
2244612	BacR-qPCR	51.8		P	50 - 175
2244937	BacR-qPCR	83.0		P	50 - 175

Reference Method: SOP-PCR-1.5

Batch ID: P397598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244592	DG3-qPCR	63.4	68.8	P/P	50 - 175
2244593	DG3-qPCR	73.8		P	50 - 175
2244594	DG3-qPCR	67.7		P	50 - 175
2244595	DG3-qPCR	74.6		P	50 - 175
2244596	DG3-qPCR	57.7		P	50 - 175
2244612	DG3-qPCR	62.1		P	50 - 175
2244937	DG3-qPCR	64.4		P	50 - 175

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: SOP-PCR-1.0
Batch ID: P397598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2244592	HF183-qPCR	6.58	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P397598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2244592	BacR-qPCR	10.5	Spike	P	0 - 25

Reference Method: SOP-PCR-1.5
Batch ID: P397598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2244592	DG3-qPCR	8.15	Spike	P	0 - 25

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

Quality Assurance Report Surrogates

Lab Sample ID: 2244592
Field Sample ID: G1SD0100

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	95.3	P	50 - 300
SOP-PCR-1.0	SKETA-qPCR	96.8	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	89.7	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	89.5	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	89.2	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	93.5	P	50 - 300

Lab Sample ID: 2244593
Field Sample ID: G1SD0005

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	119	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	104	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	122	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	104	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	83.2	P	50 - 300

Lab Sample ID: 2244594
Field Sample ID: G1SD0062

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	115	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	97.2	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	114	P	50 - 300

Quality Assurance Report Surrogates

Lab Sample ID: 2244594
 Field Sample ID: G1SD0062

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.4	SKETA-qPCR	101	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	107	P	50 - 300

Lab Sample ID: 2244595
 Field Sample ID: G1SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	99.1	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	91.3	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	107	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	95.8	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	103	P	50 - 300

Lab Sample ID: 2244596
 Field Sample ID: G1SD0098

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	98.3	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	89.8	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	104	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	91.6	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	76.4	P	50 - 300

Lab Sample ID: 2244612
 Field Sample ID: G1SD0099

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	80.7	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	79.0	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	89.3	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	73.0	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	93.7	P	50 - 300

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision SMP	MS
SOP-PCR-1.0	HF183-qPCR	111	99.1	82.2	82.2	86.5		6.58
SOP-PCR-1.2	GULL2-qPCR	98.5	90.9	70.8	73.3	68.9		
SOP-PCR-1.3	GFD-qPCR	94.8	99.0	87.9	72.7	72.5		
SOP-PCR-1.4	BacR-qPCR	67.3	97.3	69.8	77.6	82.4		10.5
SOP-PCR-1.5	DG3-qPCR	56.0	88.8	63.4	68.8	73.8		8.15

Reference Method Descriptions

Method	Description	Associated Samples
Colilert-18	E. coli by Colilert-18/QT by Sanders in Fort Myers	2244597, 2244598
Enterolert/QT	Enterococci by Enterolert/QT by Sanders in Fort Myers	2244599, 2244600, 2244601, 2244621
SOP-PCR-1.0	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2244592, 2244593, 2244594, 2244595, 2244596, 2244612
SOP-PCR-1.2	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2244593, 2244594, 2244595, 2244596, 2244612
SOP-PCR-1.3	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	2244593, 2244594, 2244595, 2244596, 2244612
SOP-PCR-1.4	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2244592, 2244593, 2244594, 2244595, 2244596, 2244612
SOP-PCR-1.5	Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction	2244592, 2244593, 2244594, 2244595, 2244596, 2244612

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
Colilert-18	05/03/2021	05/03/2021 16:10		05/04/2021 11:40	Sanders-Fort Myers	2244597, 2244598
Enterolert/QT	05/03/2021	05/03/2021 14:14		05/04/2021 15:00	Sanders-Fort Myers	2244599, 2244600, 2244601, 2244621
SOP-PCR-1.0	05/04/2021	05/04/2021 12:20	DeAsia Armster	05/05/2021 11:00	Mailin Lopez	2244592, 2244593, 2244594, 2244595, 2244596, 2244612
SOP-PCR-1.2	05/04/2021	05/04/2021 12:20	DeAsia Armster	05/12/2021 08:27	Mailin Lopez	2244593, 2244594, 2244595, 2244596, 2244612
SOP-PCR-1.3	05/04/2021	05/04/2021 12:20	DeAsia Armster	05/12/2021 12:05	DeAsia Armster	2244593, 2244594, 2244595, 2244596, 2244612
SOP-PCR-1.4	05/04/2021	05/04/2021 12:20	DeAsia Armster	05/06/2021 08:18	Mailin Lopez	2244592, 2244593, 2244594, 2244595, 2244596, 2244612
SOP-PCR-1.5	05/04/2021	05/04/2021 12:20	DeAsia Armster	05/10/2021 08:29	Mailin Lopez	2244592, 2244593, 2244594, 2244595, 2244596, 2244612