Chemical Analysis Report

TLH-ROC-2022-01-18-01

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

Event Description: **Run 7**
Request ID: **RQ-2022-01-03-57**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

For additional information please contact
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Certified by: Colin Wright, Program Administrator

Date Certified: 10-FEB-2022 09:44

NON-CONFORMANCE REPORT INCLUDED

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 group are included in this report: Nutrients.

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: Alligator Harbor near clam beds **Collection Date/Time: 01/18/2022 11:45**

Field ID: G2TLHR0025 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2300110	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P408703	
	SM 2320 B-2011	Total Alkalinity	114		mg CaCO3/L	P408795	
	SM 2540 D-2011	TSS	7	I	mg/L	P409201	
	SM 4500 F-C-2011	Fluoride	1.0		mg F/L	P408798	
2300112	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P409225	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.42		mg N/L	P408967	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P408860	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P408649	
	SM 5310 B-2011	Organic Carbon	3.1		mg C/L	P408839	
2300114	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	UY	mg P/L	P408695	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Sample was left out at room temperature overnight, should be stored at 6 degC.

Sample Location: Oyster Bay North **Collection Date/Time: 01/18/2022 13:05**

Field ID: G1TLHR0134 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2300111	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P408703	
	SM 2320 B-2011	Total Alkalinity	107		mg CaCO3/L	P408795	
	SM 2540 D-2011	TSS	4	I A	mg/L	P409201	
	SM 4500 F-C-2011	Fluoride	0.80		mg F/L	P408798	
2300113	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P409225	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P408969	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P408860	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P408649	
	SM 5310 B-2011	Organic Carbon	7.1		mg C/L	P408839	
2300115	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	UY	mg P/L	P408695	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Sample was left out at room temperature overnight, should be stored at 6 degC.

Non-Conformance Report

NCR ID: 9225

Event(s)	Job(s)	Sample(s)	Test(s)
TLH-ROC-2022-01-18-01	TLH-2022-01-18-21	2300114	
TLH-ROC-2022-01-18-01	TLH-2022-01-18-21	2300115	

NCR Type: SHIPPING/RECEIVING **NCR Category: Sample Integrity**

Observation: Samples stored at room temperature overnight.

Resolution: Samples moved to refrigerator on 01/19/22 at 07:44. Data will be qualified as appropriate.

Authorized by/Date: Kyle Klug 2/10/2022

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P408703

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409225

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408967

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408969

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408860

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408649

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408695

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: SM 2320 B-2011
Batch ID: P408795

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 D-2011
Batch ID: P409201

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P408798

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P408839

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409225

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408967

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	104		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	101		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408860

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	101		P	90 - 110

Reference Method: SM 2320 B-2011
Batch ID: P408795

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.5		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P408798

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P408839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409225

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300112	Ammonia-N	99.6	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408967

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300264	Kjeldahl Nitrogen	97.5	110	P/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300368	Kjeldahl Nitrogen	104	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408860

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300112	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299870	Total-P	105	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300115	O-Phosphate-P	101	105	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P408798

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299867	Fluoride	98.4	97.7	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P408839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299602	Organic Carbon	95.2	96.1	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P408703

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300127	Turbidity	3.97	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409225

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300112	Ammonia-N	0.667	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300264	Kjeldahl Nitrogen	10.1	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300368	Kjeldahl Nitrogen	3.78	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408860

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300112	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299870	Total-P	2.09	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300115	O-Phosphate-P	3.50	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P408795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299867	Total Alkalinity	3.55	Sample	P	0 - 5.2

Quality Assurance Report
Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P408798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299867	Fluoride	0.487	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P408839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299602	Organic Carbon	0.768	Spike	P	0 - 20

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A109926
Included Lab Sample IDs: 2300114, 2300115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	100	P/P	90 - 110
O-Phosphate-P	99.9	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A109929
Included Lab Sample IDs: 2300110, 2300111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	97.5	P/P	95 - 105

Reference Method: SM 2320 B-2011
Run ID: A109978
Included Lab Sample IDs: 2300110, 2300111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.8	97.0	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A109978
Included Lab Sample IDs: 2300110, 2300111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	101	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A109998
Included Lab Sample IDs: 2300112, 2300113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	97.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A110002
Included Lab Sample IDs: 2300112, 2300113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110013
Included Lab Sample IDs: 2300112, 2300113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A110097
Included Lab Sample IDs: 2300112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	105	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A110103
Included Lab Sample IDs: 2300113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A110133
Included Lab Sample IDs: 2300112, 2300113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	98.4	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					3.97	
EPA 350.1 Rev. 2.0	Ammonia-N	95.6	99.6	100			0.667
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	97.5	110			10.1
	Kjeldahl Nitrogen	101	104	108			3.78
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	106	105	108			2.09
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	101	105			3.50
SM 2320 B-2011	Total Alkalinity	99.5				3.55	
SM 4500 F-C-2011	Fluoride	98.9	98.4	97.7			0.487
SM 5310 B-2011	Organic Carbon	95.8	95.2	96.1			0.768

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2300110, 2300111
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2300112, 2300113
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2300112, 2300113
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2300112, 2300113
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2300112, 2300113
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2300114, 2300115
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2300110, 2300111
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2300110, 2300111
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2300110, 2300111
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2300112, 2300113

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	01/18/2022			01/19/2022 14:57	Sarah A Nixon	2300110, 2300111
EPA 350.1 Rev. 2.0	01/18/2022			01/31/2022 14:49	Ping Hua	2300112
	01/18/2022			01/31/2022 14:53	Ping Hua	2300113
EPA 351.2 Rev. 2.0	01/18/2022	01/27/2022 10:16	Alexandra J Mattheus	01/28/2022 12:09	Alexandra J Mattheus	2300113
	01/18/2022	01/27/2022 10:17	Samantha L Bates	01/28/2022 10:35	Alexandra J Mattheus	2300112
EPA 353.2 Rev. 2.0	01/18/2022			01/24/2022 10:33	Beverly Y. Sanders	2300112
	01/18/2022			01/24/2022 10:39	Beverly Y. Sanders	2300113
EPA 365.1 Rev. 2.0	01/18/2022	01/20/2022 17:50	Simonne.V. Calhoun	01/24/2022 16:30	Shengyu Ding	2300112
	01/18/2022	01/20/2022 17:50	Simonne.V. Calhoun	01/24/2022 16:31	Shengyu Ding	2300113
EPA 365.1 Rev. 2.0 dissolved	01/18/2022			01/19/2022 14:44	James L Waggerby	2300115
	01/18/2022			01/19/2022 14:51	James L Waggerby	2300114
SM 2320 B-2011	01/18/2022			01/21/2022 06:55	Dale L. Simmons	2300110
	01/18/2022			01/21/2022 07:07	Dale L. Simmons	2300111
SM 2540 D-2011	01/18/2022			01/21/2022 15:02	Yijie Li	2300110, 2300111
SM 4500 F-C-2011	01/18/2022			01/21/2022 05:11	Dale L. Simmons	2300110
	01/18/2022			01/21/2022 05:16	Dale L. Simmons	2300111
SM 5310 B-2011	01/18/2022			01/21/2022 19:22	Nathaniel J Jones	2300112
	01/18/2022			01/21/2022 19:52	Nathaniel J Jones	2300113