

Chemical Analysis Report

NE-DIST-2023-02-08-02

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Palm Valley Boat 2023**
Request ID: **RQ-2023-02-06-51**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
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Certified by: Colin Wright, Program Administrator

Date Certified: 28-FEB-2023 08:28

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular background.

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: St.Augustine Inlet SE of Vilano Bt.Rmp

Collection Date/Time: 02/07/2023 10:25

Field ID: G5NE0587

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2385881	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P425560	
	SM 2320 B-2011	Total Alkalinity	116		mg CaCO3/L	P425908	
	SM 2540 D-2015	TSS	19		mg/L	P426007	
	SM 4500-F- C-2011	Fluoride	1.2		mg F/L	P425910	
2385882	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P425940	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40		mg N/L	P425755	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P425722	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P425643	
	SM 5310 B-2011	Organic Carbon	3.7	I	mg C/L	P425802	

Sample Location: DEEP CREEK 270M ABOVE ICW

Collection Date/Time: 02/07/2023 13:05

Field ID: 27010165

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2385883	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P425560	
	SM 2320 B-2011	Total Alkalinity	112		mg CaCO3/L	P425908	
	SM 2540 D-2015	TSS	10		mg/L	P426007	
	SM 4500-F- C-2011	Fluoride	0.90		mg F/L	P425910	
2385884	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P426088	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P425755	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P425722	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P425643	
	SM 5310 B-2011	Organic Carbon	8.4		mg C/L	P425802	

Sample Location: CAPO CREEK 300M ABOVE MOUTH

Collection Date/Time: 02/07/2023 13:50

Field ID: 27010019

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2385879	EPA 180.1 Rev. 2.0	Turbidity	7.3	A	NTU	P425560	
	SM 2320 B-2011	Total Alkalinity	111		mg CaCO3/L	P425908	
	SM 2540 D-2015	TSS	17	A	mg/L	P426007	
	SM 4500-F- C-2011	Fluoride	0.92		mg F/L	P425910	
2385880	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P425940	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.51		mg N/L	P425755	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P425722	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P425643	
	SM 5310 B-2011	Organic Carbon	8.2		mg C/L	P425802	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425560

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425940

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426088

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425755

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425722

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425643

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

Reference Method: SM 2320 B-2011
Batch ID: P425908

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

Reference Method: SM 2540 D-2015
Batch ID: P426007

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P425910

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P425802

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425560

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425940

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	100		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425722

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: P425643

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

Reference Method: SM 2320 B-2011
Batch ID: P425908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.3		P	94 - 106

Reference Method: SM 2540 D-2015
Batch ID: P426007

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.0		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P425910

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P425802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425940

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385602	Ammonia-N	99.6	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385811	Ammonia-N	101	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385884	Kjeldahl Nitrogen	98.0	99.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425722

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385604	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425643

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385618	Total-P	96.2	95.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P425910

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385654	Fluoride	98.5	97.8	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385882	Organic Carbon	92.3	91.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385879	Turbidity	0.953	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425940

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385602	Ammonia-N	0.827	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385811	Ammonia-N	1.53	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385884	Kjeldahl Nitrogen	1.72	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385604	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385618	Total-P	1.19	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P425908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385654	Total Alkalinity	1.09	Sample	P	0 - 3.8

Reference Method: SM 2540 D-2015
Batch ID: P426007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385879	TSS	4.76	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P425910

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385654	Fluoride	0.463	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P425802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385882	Organic Carbon	1.30	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117333

Included Lab Sample IDs: 2385879, 2385881, 2385883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117402

Included Lab Sample IDs: 2385880, 2385882, 2385884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117408

Included Lab Sample IDs: 2385880, 2385882, 2385884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.8	98.8	P/P	90 - 110
Total-P	98.0	97.8	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A117442

Included Lab Sample IDs: 2385880, 2385882, 2385884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	97.6	P/P	90 - 110
Organic Carbon	98.6	97.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A117472

Included Lab Sample IDs: 2385879, 2385881, 2385883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.6	99.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117472

Included Lab Sample IDs: 2385879, 2385881, 2385883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117479

Included Lab Sample IDs: 2385880, 2385882

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	99.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117540

Included Lab Sample IDs: 2385884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report

Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117540

Included Lab Sample IDs: 2385884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	98.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117569

Included Lab Sample IDs: 2385880, 2385882, 2385884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.8	92.4	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		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity	100				0.953	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	99.6	101			0.827
	Ammonia-N	99.0	101	103			1.53
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	98.0	99.9			1.72
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	101	96.2	95.0			1.19
SM 2320 B-2011	Total Alkalinity	99.3				1.09	
SM 2540 D-2015	TSS	94.0				4.76	
SM 4500-F- C-2011	Fluoride	99.0	98.5	97.8			0.463
SM 5310 B-2011	Organic Carbon	98.0	92.3	91.0			1.30

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2385879, 2385881, 2385883
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2385880, 2385882, 2385884
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2385880, 2385882, 2385884
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2385880, 2385882, 2385884
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2385880, 2385882, 2385884
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2385879, 2385881, 2385883
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2385879, 2385881, 2385883
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2385879, 2385881, 2385883
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2385880, 2385882, 2385884

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	02/08/2023			02/08/2023 14:19	Khloe J Berg	2385879
	02/08/2023			02/08/2023 14:21	Khloe J Berg	2385881
	02/08/2023			02/08/2023 14:22	Khloe J Berg	2385883
EPA 350.1 Rev. 2.0	02/08/2023			02/16/2023 11:27	Ping Hua	2385880
	02/08/2023			02/16/2023 11:29	Ping Hua	2385882
	02/08/2023			02/20/2023 11:43	Khloe J Berg	2385884
EPA 351.2 Rev. 2.0	02/08/2023	02/14/2023 13:15	Simonne.V. Calhoun	02/21/2023 11:55	Samantha L Bates	2385880
	02/08/2023	02/14/2023 13:15	Simonne.V. Calhoun	02/21/2023 11:56	Samantha L Bates	2385882
	02/08/2023	02/14/2023 13:15	Simonne.V. Calhoun	02/21/2023 11:58	Samantha L Bates	2385884
EPA 353.2 Rev. 2.0	02/08/2023			02/13/2023 11:12	Beverly Y. Sanders	2385880
	02/08/2023			02/13/2023 11:13	Beverly Y. Sanders	2385882
	02/08/2023			02/13/2023 11:15	Beverly Y. Sanders	2385884
EPA 365.1 Rev. 2.0	02/08/2023	02/10/2023 16:32	Adam P Silver	02/13/2023 13:39	James L Waggeberby	2385880
	02/08/2023	02/10/2023 16:32	Adam P Silver	02/13/2023 13:40	James L Waggeberby	2385882
	02/08/2023	02/10/2023 16:32	Adam P Silver	02/13/2023 13:48	James L Waggeberby	2385884
SM 2320 B-2011	02/08/2023			02/15/2023 21:55	Dale L. Simmons	2385879
	02/08/2023			02/15/2023 22:08	Dale L. Simmons	2385881
	02/08/2023			02/15/2023 22:22	Dale L. Simmons	2385883
SM 2540 D-2015	02/08/2023			02/10/2023 16:01	Yijie Li	2385879, 2385881, 2385883
SM 4500-F- C-2011	02/08/2023			02/15/2023 19:35	Dale L. Simmons	2385879
	02/08/2023			02/15/2023 19:41	Dale L. Simmons	2385881
	02/08/2023			02/15/2023 19:46	Dale L. Simmons	2385883
SM 5310 B-2011	02/08/2023			02/14/2023 21:51	Elise M. Gillis	2385882
	02/08/2023			02/15/2023 00:30	Elise M. Gillis	2385880
	02/08/2023			02/15/2023 00:48	Elise M. Gillis	2385884