

Chemical Analysis Report

NE-DIST-2020-09-11-01

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

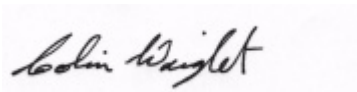
Event Description: **Extra Priority allocations NEROC**
Request ID: **RQ-2020-08-17-24**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 01-OCT-2020 08:49

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray 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: Turtle Spring Head

Collection Date/Time: 09/10/2020 13:20

Field ID: 22051013

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2195676	EPA 180.1 Rev. 2.0	Turbidity	0.20		NTU	P387276	
	EPA 300.0 Rev. 2.1	Chloride	6.3		mg Cl/L	P387418	
		Sulfate	6.7		mg SO4/L	P387420	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P387286	
	SM 2320 B-2011	Total Alkalinity	196	A	mg CaCO3/L	P387363	
	SM 2540 C-2011	TDS	209	A	mg/L	P387784	
	SM 2540 D-2011	TSS	2	UA	mg/L	P387631	
	SM 4500 F-C-2011	Fluoride	0.057	I	mg F/L	P387365	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P387306	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.20	I	mg N/L	P387461	
2195677	EPA 353.2 Rev. 2.0	NO2NO3-N	1.1		mg N/L	P387339	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P387806	
	SM 5310 B-2011	Organic Carbon	0.80	I	mg C/L	P387426	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.017		mg P/L	P387282	
2195678	EPA 365.1 Rev. 2.0 dissolved						

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P387276

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387418

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387420

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387306

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387461

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387339

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P387806

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P387282

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

Reference Method: SM 2120 B-2011
Batch ID: P387286

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P387363

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P387784

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P387631

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P387365

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P387426

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387418

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387420

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	92.5		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387461

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P387806

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P387282

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

Reference Method: SM 2120 B-2011
Batch ID: P387286

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	95.4		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P387363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	93 - 104

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P387365

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P387426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2195501	Chloride	93.1		P	90 - 110
2195725	Chloride	96.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387420

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2195501	Sulfate	95.1		P	90 - 110
2195725	Sulfate	94.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2195677	Ammonia-N	95.0	96.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2195578	Kjeldahl Nitrogen	92.9	96.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2195530	NO2NO3-N	96.2	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P387806

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2195530	Total-P	103	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P387282

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2195513	O-Phosphate-P	102	102	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P387365

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2195676	Fluoride	101	99.9	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P387426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2195578	Organic Carbon	98.5	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P387276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195700	Turbidity	3.59	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195501	Chloride	0.0871	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195501	Sulfate	0.114	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195677	Ammonia-N	1.21	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P387461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195578	Kjeldahl Nitrogen	3.14	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P387339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195530	NO2NO3-N	0.501	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P387806

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195530	Total-P	2.55	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P387282

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195513	O-Phosphate-P	0.295	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P387286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195661	Color (true)	1.65	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P387363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195676	Total Alkalinity	0.703	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P387784

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195676	TDS	8.61	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P387365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195676	Fluoride	0.967	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P387426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2195578	Organic Carbon	1.51	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: A100939

Included Lab Sample IDs: 2195676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.0	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A100940

Included Lab Sample IDs: 2195678

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.8	97.5	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A100942

Included Lab Sample IDs: 2195676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.8	99.3	P/P	90 - 115

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A100947

Included Lab Sample IDs: 2195677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	97.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A100959

Included Lab Sample IDs: 2195677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	102	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A100975

Included Lab Sample IDs: 2195676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.5	103	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A100975

Included Lab Sample IDs: 2195676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	104	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A100980

Included Lab Sample IDs: 2195676

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A101004

Included Lab Sample IDs: 2195677

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A101057

Included Lab Sample IDs: 2195677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.1	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A101251

Included Lab Sample IDs: 2195677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.0	96.0	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					3.59	
EPA 300.0 Rev. 2.1	Chloride	96.3	93.1	96.2		0.0871	
	Sulfate	96.2	95.1	94.8		0.114	
EPA 350.1 Rev. 2.0	Ammonia-N	92.5	95.0	96.3			1.21
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	92.9	96.4			3.14
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	96.2	97.0			0.501
EPA 365.1 Rev. 2.0	Total-P	107	103	108			2.55
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	102	102			0.295
SM 2120 B-2011	Color (true)	95.4				1.65	
SM 2320 B-2011	Total Alkalinity	101				0.703	
SM 2540 C-2011	TDS					8.61	
SM 4500 F-C-2011	Fluoride	102	101	99.9			0.967
SM 5310 B-2011	Organic Carbon	99.8	98.5	100			1.51

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2195676
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2195676
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2195676
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2195677
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2195677
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2195677
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2195677
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2195678
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2195676
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2195676
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2195676
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2195676
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2195676
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2195677

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	09/11/2020			09/11/2020 14:50	Yen Ta	2195676
EPA 300.0 Rev. 2.1	09/11/2020			09/16/2020 00:59	Lipi Saha	2195676
EPA 350.1 Rev. 2.0	09/11/2020			09/13/2020 13:55	Ping Hua	2195677
EPA 351.2 Rev. 2.0	09/11/2020	09/16/2020 12:40	David Boose	09/17/2020 11:57	Virginia P. Brown	2195677
EPA 353.2 Rev. 2.0	09/11/2020			09/14/2020 11:27	Beverly Y. Sanders	2195677
EPA 365.1 Rev. 2.0	09/11/2020	09/24/2020 11:57	Yen Ta	09/29/2020 11:27	Lipi Saha	2195677
EPA 365.1 Rev. 2.0 dissolved	09/11/2020			09/11/2020 15:46	Samantha Davila	2195678
SM 2120 B-2011	09/11/2020			09/11/2020 15:57	Madeline Gruver	2195676
SM 2320 B-2011	09/11/2020			09/14/2020 18:18	Dale L. Simmons	2195676
SM 2540 C-2011	09/11/2020			09/16/2020 15:09	Yijie Li	2195676
SM 2540 D-2011	09/11/2020			09/16/2020 15:09	Yijie Li	2195676
SM 4500 F-C-2011	09/11/2020			09/14/2020 18:07	Dale L. Simmons	2195676
SM 5310 B-2011	09/11/2020			09/15/2020 22:18	David Boose	2195677