

Chemical Analysis Report

NW-DIST-2021-07-22-01

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

Event Description: **Crescent Lake LVI**
Request ID: **RQ-2021-07-19-53**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 208
Pensacola, FL 32502-5794
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 18-AUG-2021 12:47

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored 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: Locklin Lake Center

Collection Date/Time: 07/21/2021 11:30

Field ID: G4NW0437

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2264203	EPA 180.1 Rev. 2.0	Turbidity	0.85		NTU	P401434	
	EPA 300.0 Rev. 2.1	Chloride	5.2		mg Cl/L	P401812	
		Sulfate	1.4		mg SO4/L	P402023	
	SM 2120 B-2011	Color (true)	13		PCU	P401432	
	SM 2320 B-2011	Total Alkalinity	11		mg CaCO3/L	P401516	
	SM 2540 C-2011	TDS	32		mg/L	P401970	
	SM 2540 D-2011	TSS	3	I	mg/L	P401963	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P401520	
2264204	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P401821	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P402316	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.36		mg N/L	P401529	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P401697	
	SM 5310 B-2011	Organic Carbon	2.0		mg C/L	P402025	
2264205	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P401407	

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: P401434

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P401812

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402023

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401821

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402316

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401529

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401697

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P401407

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

Reference Method: SM 2120 B-2011
Batch ID: P401432

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P401516

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

Reference Method: SM 2540 C-2011
Batch ID: P401970

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P401963

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P401520

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P402025

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: P401812

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402023

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401821

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402316

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401529

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	100		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401697

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P401407

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

Reference Method: SM 2120 B-2011
Batch ID: P401432

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.3		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P401516

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P401520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P402025

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P401812

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263862	Chloride	100		P	90 - 110
2263991	Chloride	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402023

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263988	Sulfate	97.1		P	90 - 110
2264579	Sulfate	97.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401821

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2262107	Ammonia-N	96.0	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263600	Kjeldahl Nitrogen	103	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401529

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2264204	NO2NO3-N	95.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2264238	Total-P	107	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P401407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2264180	O-Phosphate-P	100	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P401520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2263991	Fluoride	101	101	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P402025

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2264582	Organic Carbon	95.3	96.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P401434

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2264187	Turbidity	2.39	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P401812

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263991	Chloride	0.779	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P402023

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263988	Sulfate	0.672	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P401821

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2262107	Ammonia-N	1.63	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P402316

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263600	Kjeldahl Nitrogen	4.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P401529

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2264204	NO2NO3-N	0.361	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P401697

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2264238	Total-P	0.846	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P401407

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2264180	O-Phosphate-P	0.181	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P401432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2264175	Color (true)	0.420	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P401516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263991	Total Alkalinity	2.31	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P401970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2264769	TDS	0.797	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P401520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2263991	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P402025

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2264582	Organic Carbon	0.800	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: A106770

Included Lab Sample IDs: 2264205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.5	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A106777

Included Lab Sample IDs: 2264203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.6	100	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A106778

Included Lab Sample IDs: 2264203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	102	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A106814

Included Lab Sample IDs: 2264203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	99.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A106814

Included Lab Sample IDs: 2264203

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A106821

Included Lab Sample IDs: 2264204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	99.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A106905

Included Lab Sample IDs: 2264203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A106976

Included Lab Sample IDs: 2264204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	96.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A106978

Included Lab Sample IDs: 2264204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.5	95.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A107025

Included Lab Sample IDs: 2264203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	99.3	99.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A107056

Included Lab Sample IDs: 2264204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	95.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107210

Included Lab Sample IDs: 2264204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	102	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					2.39	
EPA 300.0 Rev. 2.1	Chloride	100	97.0	100		0.779	
	Sulfate	98.4	97.1	97.3		0.672	
EPA 350.1 Rev. 2.0	Ammonia-N	97.2	96.0	97.8			1.63
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	103	107			4.33
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	95.5				0.361
EPA 365.1 Rev. 2.0	Total-P	104	107	108			0.846
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	100	100			0.181
SM 2120 B-2011	Color (true)	97.3				0.420	
SM 2320 B-2011	Total Alkalinity	102				2.31	
SM 2540 C-2011	TDS					0.797	
SM 4500 F-C-2011	Fluoride	100	101	101			0.0
SM 5310 B-2011	Organic Carbon	95.4	95.3	96.6			0.800

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2264203
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2264203
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2264203
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2264204
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2264204
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2264204
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2264204
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2264205
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2264203
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2264203
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2264203
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2264203
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2264203
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2264204

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	07/22/2021			07/22/2021 15:14	Sarah A Nixon	2264203
EPA 300.0 Rev. 2.1	07/22/2021			07/30/2021 19:18	Lipi Saha	2264203
	07/22/2021			08/04/2021 18:53	Lipi Saha	2264203
EPA 350.1 Rev. 2.0	07/22/2021			08/02/2021 12:55	Roberta Tatti	2264204
EPA 351.2 Rev. 2.0	07/22/2021	08/11/2021 13:04	Benjamin T. Nordmann	08/12/2021 10:21	Virginia P. Brown	2264204
EPA 353.2 Rev. 2.0	07/22/2021			07/26/2021 10:27	Beverly Y. Sanders	2264204
EPA 365.1 Rev. 2.0	07/22/2021	07/30/2021 15:31	Simonne.V. Calhoun	08/02/2021 11:55	Shengyu Ding	2264204
EPA 365.1 Rev. 2.0 dissolved	07/22/2021			07/22/2021 13:13	Blanca Fach	2264205
SM 2120 B-2011	07/22/2021			07/22/2021 16:03	Sarah A Nixon	2264203
SM 2320 B-2011	07/22/2021			07/24/2021 02:59	Dale L. Simmons	2264203
SM 2540 C-2011	07/22/2021			07/27/2021 14:56	Yijie Li	2264203
SM 2540 D-2011	07/22/2021			07/27/2021 14:56	Yijie Li	2264203
SM 4500 F-C-2011	07/22/2021			07/24/2021 02:59	Dale L. Simmons	2264203
SM 5310 B-2011	07/22/2021			08/04/2021 23:47	Madeline Gruver	2264204