

Chemical Analysis Report

CEN-DIST-2021-12-03-01

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

Event Description: **Reedy Creek Below Lake Russell (3170A)**
Request ID: **RQ-2021-10-04-07**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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Certified by: Colin Wright, Program Administrator

Date Certified: 29-DEC-2021 08:28

A handwritten signature in black ink, appearing to read "Colin Wright", is placed over 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: Reedy Creek @ 375m DS of Lake Russell

Collection Date/Time: 12/02/2021 12:08

Field ID: G4CE0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2292967	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P407019	
	EPA 300.0 Rev. 2.1	Chloride	35	A	mg Cl/L	P407362	
		Sulfate	1.3	A	mg SO4/L	P407365	
	SM 2120 B-2011	Color (true)	500		PCU	P407016	
	SM 2320 B-2011	Total Alkalinity	30		mg CaCO3/L	P407160	
	SM 2540 C-2011	TDS	188		mg/L	P407487	
	SM 2540 D-2011	TSS	3	I	mg/L	P407496	
	SM 4500 F-C-2011	Fluoride	0.082	I	mg F/L	P407165	
2292968	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P407632	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8	J	mg N/L	P407791	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.036		mg N/L	P407058	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P407123	
	SM 5310 B-2011	Organic Carbon	45		mg C/L	P407413	
2292969	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.01	I	mg P/L	P407011	

Ref. Method and Comment:

SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Result may be biased because of particulate matter in the sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407019

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407362

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407365

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407632

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407791

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407058

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407123

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407011

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

Reference Method: SM 2120 B-2011
Batch ID: P407016

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P407160

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

Reference Method: SM 2540 C-2011
Batch ID: P407487

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P407496

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P407165

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P407413

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: P407362

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407365

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407632

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407791

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407058

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407123

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407011

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.1		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P407016

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P407160

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.8		P	94 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P407165

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.9		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P407413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292967	Chloride	102		P	90 - 110
2293205	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407365

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292967	Sulfate	98.5		P	90 - 110
2293205	Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407632

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292905	Ammonia-N	98.0	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292244	Kjeldahl Nitrogen	97.7	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292568	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292905	Total-P	108	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407011

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292906	O-Phosphate-P	97.3	96.6	P/P	90 - 110

Reference Method: SM 5310 B-2011
Batch ID: P407413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293022	Organic Carbon	92.8	93.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407019

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292781	Turbidity	5.32	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292967	Chloride	0.722	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292967	Sulfate	0.922	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407632

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292905	Ammonia-N	0.988	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292244	Kjeldahl Nitrogen	3.93	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292568	NO2NO3-N	0.935	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292905	Total-P	3.69	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407011

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292906	O-Phosphate-P	0.592	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P407016

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292781	Color (true)	0.471	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P407160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292610	Total Alkalinity	0.950	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P407487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292694	TDS	2.53	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P407496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292694	TSS	4.65	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P407165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292610	Fluoride	0.472	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P407413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293022	Organic Carbon	0.123	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: A109196

Included Lab Sample IDs: 2292969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.6	99.2	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A109198

Included Lab Sample IDs: 2292967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	100	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A109199

Included Lab Sample IDs: 2292967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A109216

Included Lab Sample IDs: 2292968

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

Reference Method: SM 2320 B-2011

Run ID: A109252

Included Lab Sample IDs: 2292967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A109252

Included Lab Sample IDs: 2292967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	103	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A109256

Included Lab Sample IDs: 2292967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	104	P/P	90 - 110
Sulfate	98.2	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109296

Included Lab Sample IDs: 2292968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A109369

Included Lab Sample IDs: 2292968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	95.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A109464

Included Lab Sample IDs: 2292968

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A109570

Included Lab Sample IDs: 2292968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.9	98.5	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					5.32	
EPA 300.0 Rev. 2.1	Chloride	101	102	100		0.722	
	Sulfate	97.0	98.5	97.0		0.922	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	98.0	99.2			0.988
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	97.7	103			3.93
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	103	102			0.935
EPA 365.1 Rev. 2.0	Total-P	105	108	103			3.69
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1	97.3	96.6			0.592
SM 2120 B-2011	Color (true)	101				0.471	
SM 2320 B-2011	Total Alkalinity	97.8				0.950	
SM 2540 C-2011	TDS					2.53	
SM 2540 D-2011	TSS					4.65	
SM 4500 F-C-2011	Fluoride	99.9					0.472
SM 5310 B-2011	Organic Carbon	94.4	92.8	93.0			0.123

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2292967
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2292967
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2292967
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2292968
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2292968
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2292968
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2292968
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2292969
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2292967
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2292967
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2292967
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2292967
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2292967
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2292968

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	12/03/2021			12/03/2021 14:14	Khloe J Berg	2292967
EPA 300.0 Rev. 2.1	12/03/2021			12/10/2021 12:37	Roberta Tatti	2292967
EPA 350.1 Rev. 2.0	12/03/2021			12/17/2021 13:37	Ping Hua	2292968
EPA 351.2 Rev. 2.0	12/03/2021	12/22/2021 12:57	Samantha L Bates	12/27/2021 15:01	Alexandra J Mattheus	2292968
EPA 353.2 Rev. 2.0	12/03/2021			12/06/2021 10:32	Beverly Y. Sanders	2292968
EPA 365.1 Rev. 2.0	12/03/2021	12/08/2021 18:00	Simonne.V. Calhoun	12/09/2021 13:07	Shengyu Ding	2292968
EPA 365.1 Rev. 2.0 dissolved	12/03/2021			12/03/2021 14:34	James L Waggerby	2292969
SM 2120 B-2011	12/03/2021			12/03/2021 15:51	Samantha L Bates	2292967
SM 2320 B-2011	12/03/2021			12/07/2021 21:11	Dale L. Simmons	2292967
SM 2540 C-2011	12/03/2021			12/07/2021 11:11	Yijie Li	2292967
SM 2540 D-2011	12/03/2021			12/07/2021 11:11	Yijie Li	2292967
SM 4500 F-C-2011	12/03/2021			12/07/2021 21:11	Dale L. Simmons	2292967
SM 5310 B-2011	12/03/2021			12/14/2021 00:46	Khloe J Berg	2292968