

Chemical Analysis Report

CEN-DIST-2019-04-19-02

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

Event Description: **Cow / Robert's**
Request ID: **RQ-2019-04-08-38**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 06-MAY-2019 12:12

A handwritten signature in black ink, appearing to read "Colin Wright", is shown on a light-colored 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: Cow Creek at Osteen-Maytown road

Collection Date/Time: 04/18/2019 12:48

Field ID: G2CE0086

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2079748	EPA 180.1 Rev. 2.0	Turbidity	0.65		NTU	P362511	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P362823	
		Sulfate	0.20	U	mg SO4/L	P362826	
	SM 2120 B	Color (true)	620		PCU	P362525	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P362949	
	SM 2540 C-97	TDS	151		mg/L	P363101	
	SM 2540 D-97	TSS	2	I	mg/L	P363050	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P362953	
2079749	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P362693	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P363093	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P362978	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P362688	
	SM 5310 B-00	Organic Carbon	49		mg C/L	P362919	
2079750	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.011		mg P/L	P362539	

Ref. Method and Comment:

SM 2540 D-97: 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: P362511

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362823

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362826

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P362693

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P363093

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P362978

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P362688

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P362539

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

Reference Method: SM 2120 B
Batch ID: P362525

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P362949

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

Reference Method: SM 2540 C-97
Batch ID: P363101

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P363050

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P362953

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P362919

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: P362823

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362826

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P362693

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P363093

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.1		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P362978

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P362688

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P362539

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

Reference Method: SM 2120 B
Batch ID: P362525

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P362949

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P362953

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P362919

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	89.7		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362823

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079691	Chloride	100		P	90 - 110
2079757	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362826

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079691	Sulfate	101		P	90 - 110
2079757	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P362693

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079714	Ammonia-N	99.3	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P363093

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079715	Kjeldahl Nitrogen	105	96.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P362978

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079682	NO2NO3-N	99.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P362688

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079699	Total-P	97.8	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P362539

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079693	O-Phosphate-P	98.5	97.7	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P362953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079458	Fluoride	99.9	98.8	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P362919

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2079681	Organic Carbon	88.7	90.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P362511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079756	Turbidity	1.52	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079691	Chloride	0.149	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P362826

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079691	Sulfate	0.313	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P362693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079714	Ammonia-N	0.190	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P363093

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079715	Kjeldahl Nitrogen	5.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P362978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079682	NO2NO3-N	0.504	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P362688

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079699	Total-P	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P362539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079693	O-Phosphate-P	0.758	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P362525

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079758	Color (true)	2.84	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P362949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079458	Total Alkalinity	0.876	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P363101

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079713	TDS	5.73	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P362953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079458	Fluoride	0.948	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P362919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2079681	Organic Carbon	0.945	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A90854

Included Lab Sample IDs: 2079748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.0	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A90857

Included Lab Sample IDs: 2079748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A90859

Included Lab Sample IDs: 2079750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	98.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A90940

Included Lab Sample IDs: 2079749

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A90961

Included Lab Sample IDs: 2079748

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A91017

Included Lab Sample IDs: 2079749

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

Reference Method: SM 5310 B-00

Run ID: A91030

Included Lab Sample IDs: 2079749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	92.2	92.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A91039

Included Lab Sample IDs: 2079749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	98.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97
Run ID: A91045
Included Lab Sample IDs: 2079748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	105	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A91045
Included Lab Sample IDs: 2079748

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A91156
Included Lab Sample IDs: 2079749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.0	94.9	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					1.52	
EPA 300.0 Rev. 2.1	Chloride	101	100	102		0.149	
	Sulfate	101	101	101		0.313	
EPA 350.1 Rev. 2.0	Ammonia-N	103	99.3	99.1			0.190
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.1	105	96.1			5.33
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	99.5	99.0			0.504
EPA 365.1 Rev. 2.0	Total-P	103	97.8	96.6			1.01
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	98.5	97.7			0.758
SM 2120 B	Color (true)	102				2.84	
SM 2320 B-97	Total Alkalinity	103				0.876	
SM 2540 C-97	TDS					5.73	
SM 4500 F-C-97	Fluoride	99.8	99.9	98.8			0.948
SM 5310 B-00	Organic Carbon	89.7	88.7	90.2			0.945

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2079748
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2079748
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2079748
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2079749
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2079749
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2079749
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2079749
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2079750
SM 2120 B / E31780	True Color measured at 450 nm	2079748
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2079748
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2079748
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2079748
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2079748
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2079749

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	04/19/2019			04/19/2019 15:55	Adrian Shelby	2079748
EPA 300.0 Rev. 2.1	04/19/2019			04/25/2019 06:42	Lipi Saha	2079748
EPA 350.1 Rev. 2.0	04/19/2019			04/23/2019 14:44	Julia Storbeck	2079749
EPA 351.2 Rev. 2.0	04/19/2019	04/30/2019 12:15	Adrian Shelby	05/02/2019 13:22	Joseph Suarez	2079749
EPA 353.2 Rev. 2.0	04/19/2019			04/26/2019 11:31	Beverly Y. Sanders	2079749
EPA 365.1 Rev. 2.0	04/19/2019	04/24/2019 15:26	Sima Feizi	04/25/2019 19:29	Rosalyn Ballman	2079749
EPA 365.1 Rev. 2.0 dissolved	04/19/2019			04/19/2019 17:25	Julia Storbeck	2079750
SM 2120 B	04/19/2019			04/19/2019 15:59	Mariam Hanna	2079748
SM 2320 B-97	04/19/2019			04/26/2019 20:26	Dale L. Simmons	2079748
SM 2540 C-97	04/19/2019			04/24/2019 15:30	Yijie Li	2079748
SM 2540 D-97	04/19/2019			04/24/2019 15:30	Yijie Li	2079748
SM 4500 F-C-97	04/19/2019			04/26/2019 20:26	Dale L. Simmons	2079748
SM 5310 B-00	04/19/2019			04/25/2019 05:36	Julia Storbeck	2079749