

Chemical Analysis Report

WQAP-2017-04-05-02

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

Event Description: **RUN 7**
Request ID: **RQ-2017-04-03-50**
Customer: **WQAP**
Project ID: **SMP**

Send Reports to:
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Date Certified: 26-APR-2017 09:58



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 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: HIAWATHA

Collection Date/Time: 04/04/2017 11:25

Field ID: G1SW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1885883	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P322867	
	EPA 300.0 Rev. 2.1	Chloride	29	A	mg Cl/L	P323379	
		Sulfate	7.8	A	mg SO4/L	P323179	
	SM 2120 B	Color (true)	30	A	PCU	P322843	
	SM 2320 B-97	Total Alkalinity	2.9		mg CaCO3/L	P323359	
	SM 2540 C-97	TDS	71		mg/L	P323495	
	SM 2540 D-97	TSS	2	I	mg/L	P323524	
	SM 4500 F-C-97	Fluoride	0.082	I	mg F/L	P323363	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P322839	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P322930	
1885884	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P322954	
	EPA 365.1 Rev. 2.0	Total-P	0.024		mg P/L	P322890	
	SM 5310 B-00	Organic Carbon	8.3		mg C/L	P322903	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P322822	
	dissolved						

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: P322867

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P323179

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P323379

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P322839

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P322930

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322954

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322890

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322822

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

Reference Method: SM 2120 B
Batch ID: P322843

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P323359

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

Reference Method: SM 2540 C-97
Batch ID: P323495

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P323524

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P323363

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P322903

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: P323179

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323379

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322839

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322930

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: P322954

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.4		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322822

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.8		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P323359

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	105		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P323363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.9		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P322903

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885756	Sulfate	108		P	90 - 110
1885883	Sulfate	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885756	Chloride	102		P	90 - 110
1885883	Chloride	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885884	Ammonia-N	100	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885884	Kjeldahl Nitrogen	98.7	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885863	NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885862	Total-P	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322822

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885760	O-Phosphate-P	95.5	97.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P323363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1886119	Fluoride	97.1	98.3	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P322903

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885786	Organic Carbon	96.3	97.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P322867

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885727	Turbidity	2.27	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885883	Sulfate	1.68	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885883	Chloride	0.0110	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885884	Ammonia-N	5.40	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885884	Kjeldahl Nitrogen	2.61	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885863	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885862	Total-P	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885760	O-Phosphate-P	1.70	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P322843

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885883	Color (true)	8.95	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P323359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886119	Total Alkalinity	0.0433	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P323495

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885815	TDS	3.72	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P323363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1886119	Fluoride	1.00	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P322903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885786	Organic Carbon	1.03	Spike	P	0 - 20

Quality Assurance Report Precision

* 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 365.1 Rev. 2.0 dissolved

Run ID: A75584

Included Lab Sample IDs: 1885885

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.3	96.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A75589

Included Lab Sample IDs: 1885884

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

Reference Method: SM 2120 B

Run ID: A75590

Included Lab Sample IDs: 1885883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	104	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A75596

Included Lab Sample IDs: 1885883

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

Reference Method: SM 5310 B-00

Run ID: A75618

Included Lab Sample IDs: 1885884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.0	95.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A75638

Included Lab Sample IDs: 1885884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.5	95.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75651

Included Lab Sample IDs: 1885884

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A75679

Included Lab Sample IDs: 1885884

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A75723

Included Lab Sample IDs: 1885883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	103	106	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A75773

Included Lab Sample IDs: 1885883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	105	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A75773

Included Lab Sample IDs: 1885883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	98.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A75780

Included Lab Sample IDs: 1885883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	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 SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				2.27	
EPA 300.0 Rev. 2.1	Chloride	102	99.7	102	0.0110	
	Sulfate	106	104	108	1.68	
EPA 350.1 Rev. 2.0	Ammonia-N	99.5	100	106		5.40
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	98.7	103		2.61
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	98.5	98.5		0.0
EPA 365.1 Rev. 2.0	Total-P	97.4	101	101		0.0
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.8	95.5	97.9		1.70
SM 2120 B	Color (true)				8.95	
SM 2320 B-97	Total Alkalinity	105			0.0433	
SM 2540 C-97	TDS				3.72	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500 F-C-97	Fluoride	97.9	97.1	98.3		1.00
SM 5310 B-00	Organic Carbon	96.3	96.3	97.7		1.03

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1885883
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1885883
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1885883
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1885884
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1885884
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1885884
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1885884
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1885885
SM 2120 B / E31780	True Color measured at 450 nm	1885883
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1885883
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1885883
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1885883
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1885883
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1885884

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	04/05/2017			04/05/2017 15:07	Sima Feizi	1885883
EPA 300.0 Rev. 2.1	04/05/2017			04/12/2017	Ping Hua	1885883
	04/05/2017			04/14/2017	Ping Hua	1885883
EPA 350.1 Rev. 2.0	04/05/2017			04/05/2017	Julie Michelle Frank	1885884
EPA 351.2 Rev. 2.0	04/05/2017	04/07/2017	Adrian Shelby	04/10/2017	Joseph Suarez	1885884
EPA 353.2 Rev. 2.0	04/05/2017			04/07/2017	Beverly Y. Sanders	1885884
EPA 365.1 Rev. 2.0	04/05/2017	04/06/2017	Vijayalakshmi Reddy	04/07/2017	Lipi Saha	1885884
EPA 365.1 Rev. 2.0 dissolved	04/05/2017			04/05/2017 13:05	Anthony C. Onicha	1885885
SM 2120 B	04/05/2017			04/05/2017 16:29	Julia Storbeck	1885883
SM 2320 B-97	04/05/2017			04/13/2017	Dale L. Simmons	1885883
SM 2540 C-97	04/05/2017			04/07/2017	Yijie Li	1885883
SM 2540 D-97	04/05/2017			04/07/2017	Yijie Li	1885883
SM 4500 F-C-97	04/05/2017			04/13/2017	Dale L. Simmons	1885883
SM 5310 B-00	04/05/2017			04/06/2017	Julie Michelle Frank	1885884