

Chemical Analysis Report

SW-DIST-2020-06-30-01

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

Event Description: **Horsehole - WBID 3703**
Request ID: **RQ-2020-06-29-40**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
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13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 17-JUL-2020 11:30

A handwritten signature in black ink, appearing to read "Liang Lin", is shown 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: Horsehole Creek @ 19

Collection Date/Time: 06/29/2020 12:45

Field ID: G1SW0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2179702	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P383889	
	EPA 300.0 Rev. 2.1	Chloride	8.9		mg Cl/L	P384100	
		Sulfate	3.9		mg SO4/L	P384104	
	SM 2120 B-2011	Color (true)	63	A	PCU	P383918	
	SM 2320 B-2011	Total Alkalinity	196	A	mg CaCO3/L	P384044	
	SM 2540 C-2011	TDS	243		mg/L	P384366	
	SM 2540 D-2011	TSS	2	I	mg/L	P384357	
	SM 4500 F-C-2011	Fluoride	0.065	I	mg F/L	P384048	
2179703	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P384026	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P383889	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P383979	
	EPA 365.1 Rev. 2.0	Total-P	0.069		mg P/L	P383930	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P383962	
2179704	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.027		mg P/L	P383898	

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: P383889

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384100

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384104

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384026

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383889

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383979

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P383930

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P383898

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

Reference Method: SM 2120 B-2011
Batch ID: P383918

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P384044

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

Reference Method: SM 2540 C-2011
Batch ID: P384366

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P384357

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P384048

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P383962

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: P384100

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384104

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384026

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P383889

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P383979

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: P383930

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: P383898

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

Reference Method: SM 2120 B-2011
Batch ID: P383918

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.9		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P384044

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.4		P	93 - 104

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P384048

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P383962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	103		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P384100

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179586	Chloride	97.2		P	90 - 110
2179676	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P384104

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179586	Sulfate	97.5		P	90 - 110
2179676	Sulfate	96.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P384026

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179780	Ammonia-N	104	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P383889

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179780	Kjeldahl Nitrogen	112	106	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P383979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179706	NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P383930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179703	Total-P	108	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P383898

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179784	O-Phosphate-P	93.3	94.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
 Batch ID: P384048

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179702	Fluoride	101	101	P/P	94 - 107

Reference Method: SM 5310 B-2011
 Batch ID: P383962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179818	Organic Carbon	100	101	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P383889

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179676	Turbidity	9.08	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P384100

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179676	Chloride	0.871	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P384104

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179676	Sulfate	1.11	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P384026

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179780	Ammonia-N	0.389	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P383889

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179780	Kjeldahl Nitrogen	5.25	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P383979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179706	NO2NO3-N	0.506	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P383930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179703	Total-P	0.819	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P383898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179784	O-Phosphate-P	0.960	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P383918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179702	Color (true)	1.82	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P384044

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179702	Total Alkalinity	1.21	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P384366

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179674	TDS	4.21	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P384048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179702	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P383962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179818	Organic Carbon	1.18	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: A99608

Included Lab Sample IDs: 2179702

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A99611

Included Lab Sample IDs: 2179704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.7	97.0	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A99622

Included Lab Sample IDs: 2179702

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.4	99.8	P/P	90 - 115

Reference Method: SM 5310 B-2011

Run ID: A99638

Included Lab Sample IDs: 2179703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.4	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A99647

Included Lab Sample IDs: 2179703

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A99659

Included Lab Sample IDs: 2179702

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.8	99.9	P/P	90 - 110
Sulfate	98.2	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A99664

Included Lab Sample IDs: 2179703

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

Reference Method: SM 2320 B-2011

Run ID: A99669

Included Lab Sample IDs: 2179702

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.7	96.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A99669

Included Lab Sample IDs: 2179702

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A99685

Included Lab Sample IDs: 2179703

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A99697

Included Lab Sample IDs: 2179703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	104	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					9.08	
EPA 300.0 Rev. 2.1	Chloride	98.3	97.9	97.2		0.871	
	Sulfate	97.2	96.6	97.5		1.11	
EPA 350.1 Rev. 2.0	Ammonia-N	99.3	104	105			0.389
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.6	112	106			5.25
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	99.0	98.5			0.506
EPA 365.1 Rev. 2.0	Total-P	107	108	107			0.819
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2	93.3	94.2			0.960
SM 2120 B-2011	Color (true)	97.9				1.82	
SM 2320 B-2011	Total Alkalinity	99.4				1.21	
SM 2540 C-2011	TDS					4.21	
SM 4500 F-C-2011	Fluoride	99.3	101	101			0.0
SM 5310 B-2011	Organic Carbon	103	100	101			1.18

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2179702
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2179702
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2179702
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2179703
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2179703
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2179703
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2179703
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2179704
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2179702
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2179702
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2179702
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2179702
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2179702
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2179703

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	06/30/2020			06/30/2020 15:18	Yen Ta	2179702
EPA 300.0 Rev. 2.1	06/30/2020			07/02/2020 18:51	Jhamieka S. Greenwood	2179702
EPA 350.1 Rev. 2.0	06/30/2020			07/04/2020 12:26	Ping Hua	2179703
EPA 351.2 Rev. 2.0	06/30/2020	07/02/2020 09:40	Sima Feizi	07/06/2020 10:17	Jhamieka S. Greenwood	2179703
EPA 353.2 Rev. 2.0	06/30/2020			07/02/2020 09:01	Beverly Y. Sanders	2179703
EPA 365.1 Rev. 2.0	06/30/2020	07/01/2020 12:11	Yen Ta	07/06/2020 09:16	Lipi Saha	2179703
EPA 365.1 Rev. 2.0 dissolved	06/30/2020			06/30/2020 16:33	Jhamieka S. Greenwood	2179704
SM 2120 B-2011	06/30/2020			06/30/2020 14:51	Benjamin T. Nordmann	2179702
SM 2320 B-2011	06/30/2020			07/03/2020 01:07	Lauren Lees	2179702
SM 2540 C-2011	06/30/2020			07/01/2020 13:59	Yijie Li	2179702
SM 2540 D-2011	06/30/2020			07/01/2020 13:59	Yijie Li	2179702
SM 4500 F-C-2011	06/30/2020			07/03/2020 00:55	Lauren Lees	2179702
SM 5310 B-2011	06/30/2020			07/01/2020 23:55	David Boose	2179703