

Chemical Analysis Report

NW-DIST-2016-01-06-01

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

Event Description: **WBID 337**
Request ID: **RQ-2016-01-04-70**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Timothy Fitzpatrick, Program Administrator

Date Certified: 21-JAN-2016 10:57

A handwritten signature in black ink, appearing to read 'Timothy W. Fitzpatrick', with a stylized flourish at the end.

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: FLAT CREEK @ JOHNS RD

Collection Date/Time: 01/05/2016 11:35

Field ID: G3NW0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1760825	EPA 180.1 Rev. 2.0	Turbidity	10	A	NTU	P296718	
	EPA 300.0 Rev. 2.1	Chloride	4.3	A	mg Cl/L	P296815	
		Sulfate	2.0	A	mg SO4/L	P296816	
	SM 2120 B	Color (true)	77		PCU	P296708	
	SM 2320 B-97	Total Alkalinity	5.5		mg CaCO3/L	P296880	
	SM 2540 C-97	TDS	35		mg/L	P297150	
	SM 2540 D-97	TSS	2	I	mg/L	P297027	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P296875	
1760826	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P296796	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.35		mg N/L	P296808	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P296891	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P296823	
	SM 5310 B-00	Organic Carbon	6.1		mg C/L	P296839	
1760827	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.010		mg P/L	P296730	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P296718

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P296815

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P296816

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P296796

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P296808

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: P296891

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P296823

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P296730

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

Reference Method: SM 2120 B
Batch ID: P296708

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P296880

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

Reference Method: SM 2540 C-97
Batch ID: P297150

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P297027

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P296875

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P296839

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: P296815

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P296816

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P296796

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P296808

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P296891

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P296823

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	92.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P296730

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

Reference Method: SM 2320 B-97
Batch ID: P296880

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

Reference Method: SM 4500 F-C-97
Batch ID: P296875

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	94 - 108

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P296839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P296815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1760825	Chloride	97.9		P	90 - 110
1760833	Chloride	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P296816

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1760825	Sulfate	95.2		P	90 - 110
1760833	Sulfate	95.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P296796

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1760844	Ammonia-N	98.5	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P296808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1760758	Kjeldahl Nitrogen	97.2	98.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P296891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1760759	NO2NO3-N	95.8	96.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P296823

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1760758	Total-P	97.7	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P296730

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1760827	O-Phosphate-P	98.5	98.5	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P296875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1761007	Fluoride	97.1	97.8	P/P	94 - 107

Reference Method: SM 5310 B-00
Batch ID: P296839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1760716	Organic Carbon	101	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P296718

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760825	Turbidity	1.96	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P296815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760825	Chloride	0.306	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P296816

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760825	Sulfate	0.871	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P296796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760844	Ammonia-N	0.914	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P296808

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760758	Kjeldahl Nitrogen	0.850	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P296891

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: P296891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760759	NO2NO3-N	0.778	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P296823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760758	Total-P	0.268	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P296730

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760827	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P296708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760842	Color (true)	2.09	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P296880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1761007	Total Alkalinity	0.102	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P297150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760842	TDS	3.96	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P296875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1761007	Fluoride	0.480	Spike	P	0 - 3.7

Reference Method: SM 5310 B-00
Batch ID: P296839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1760716	Organic Carbon	0.382	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: SM 2120 B
Run ID: A66936
Included Lab Sample IDs: 1760825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A66940
Included Lab Sample IDs: 1760825

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A66948
Included Lab Sample IDs: 1760827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	98.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A66955
Included Lab Sample IDs: 1760825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.5	99.4	P/P	90 - 110
Sulfate	101	95.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A66975
Included Lab Sample IDs: 1760826

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

Reference Method: SM 5310 B-00
Run ID: A67002
Included Lab Sample IDs: 1760826

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A67005
Included Lab Sample IDs: 1760826

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

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97
Run ID: A67019
Included Lab Sample IDs: 1760825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	98.5	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A67020
Included Lab Sample IDs: 1760825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A67021
Included Lab Sample IDs: 1760826

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A67024
Included Lab Sample IDs: 1760826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.8	97.3	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				1.96	
EPA 300.0 Rev. 2.1	Chloride	96.7	97.9 97.0		0.306	
	Sulfate	95.1	95.2 95.0		0.871	
EPA 350.1 Rev. 2.0	Ammonia-N	97.9	98.5 99.8			0.914
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.5	97.2 98.4			0.850
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0	95.8 96.8			0.778
EPA 365.1 Rev. 2.0	Total-P	92.5	97.7 98.0			0.268
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	98.5 98.5			0.0
SM 2120 B	Color (true)				2.09	
SM 2320 B-97	Total Alkalinity	102			0.102	
SM 2540 C-97	TDS				3.96	
SM 4500 F-C-97	Fluoride	97.1	97.1 97.8			0.480
SM 5310 B-00	Organic Carbon	99.2	101 102			0.382

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
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Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1760825
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1760825
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1760825
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1760826
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1760826
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1760826
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1760826
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1760827
SM 2120 B / E31780	True Color measured at 450 nm	1760825
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1760825
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1760825
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1760825
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1760825
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1760826

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	01/06/2016			01/06/2016 13:42	Sima Feizi	1760825
EPA 300.0 Rev. 2.1	01/06/2016			01/07/2016	Ping Hua	1760825
EPA 350.1 Rev. 2.0	01/06/2016			01/07/2016	Diana M. Turner	1760826
EPA 351.2 Rev. 2.0	01/06/2016	01/08/2016	Christopher Armour	01/11/2016	Bryan A. Werth	1760826
EPA 353.2 Rev. 2.0	01/06/2016			01/08/2016	Diana M. Turner	1760826
EPA 365.1 Rev. 2.0	01/06/2016	01/08/2016	Christopher Armour	01/11/2016	Lipi Saha	1760826
EPA 365.1 Rev. 2.0 dissolved	01/06/2016			01/06/2016 17:03	Julia Storbeck	1760827
SM 2120 B	01/06/2016			01/06/2016 13:52	Rochelle Y Jackson	1760825
SM 2320 B-97	01/06/2016			01/07/2016	Dale L. Simmons	1760825
SM 2540 C-97	01/06/2016			01/07/2016	Yijie Li	1760825
SM 2540 D-97	01/06/2016			01/07/2016	Yijie Li	1760825
SM 4500 F-C-97	01/06/2016			01/07/2016	Dale L. Simmons	1760825
SM 5310 B-00	01/06/2016			01/07/2016	Sofia Elnemr	1760826