

Chemical Analysis Report

CEN-DIST-2021-08-06-02

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

Event Description: **Lotus and Ingram - WBIDs 3004M & 3170L**

Request ID: **RQ-2021-08-02-67**

Customer: **CEN-DIST**

Project ID: **SMP**

Send Reports to:

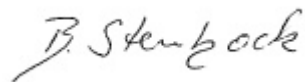
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Date Certified: 01-SEP-2021 15:06



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: Lake Lotus @ Center

Collection Date/Time: 08/05/2021 11:46

Field ID: G2CE0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2267954	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P402143	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P402413	
		Sulfate	7.7		mg SO4/L	P402416	
	SM 2120 B-2011	Color (true)	41	A	PCU	P402140	
	SM 2320 B-2011	Total Alkalinity	65		mg CaCO3/L	P402217	
	SM 2540 C-2011	TDS	115		mg/L	P402568	
	SM 2540 D-2011	TSS	8	I	mg/L	P402573	
	SM 4500 F-C-2011	Fluoride	0.091	I	mg F/L	P402219	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P402387	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P402786	
2267955	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P402233	
	EPA 365.1 Rev. 2.0	Total-P	0.088		mg P/L	P402323	
	SM 5310 B-2011	Organic Carbon	9.6		mg C/L	P402839	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P402137	
	dissolved						

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: P402143

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402413

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402416

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402387

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402786

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402233

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402323

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402137

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

Reference Method: SM 2120 B-2011
Batch ID: P402140

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P402217

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

Reference Method: SM 2540 C-2011
Batch ID: P402568

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P402573

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P402219

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P402839

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: P402413

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402416

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402387

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402786

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402233

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: P402323

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402137

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

Reference Method: SM 2120 B-2011
Batch ID: P402140

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.2		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P402217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	94 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P402219

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

Reference Method: SM 5310 B-2011
Batch ID: P402839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267746	Chloride	98.4		P	90 - 110
2267940	Chloride	93.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402416

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267746	Sulfate	98.1		P	90 - 110
2267940	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267898	Ammonia-N	99.8	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402786

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267840	Kjeldahl Nitrogen	104	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402233

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267948	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402323

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267941	Total-P	108	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267901	O-Phosphate-P	91.6	90.6	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P402219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267928	Fluoride	100	99.2	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P402839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2267840	Organic Carbon	96.5	96.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P402143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267837	Turbidity	1.51	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267746	Chloride	1.30	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P402416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267746	Sulfate	1.96	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P402387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267898	Ammonia-N	1.19	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267840	Kjeldahl Nitrogen	0.957	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P402233

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267948	NO2NO3-N	0.438	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P402323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267941	Total-P	0.724	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P402137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267901	O-Phosphate-P	1.10	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P402140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267954	Color (true)	0.336	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P402217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267928	Total Alkalinity	1.58	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P402568

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267837	TDS	6.37	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P402219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267928	Fluoride	0.977	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P402839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2267840	Organic Carbon	0.0	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: A107101

Included Lab Sample IDs: 2267956

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	99.2	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A107102

Included Lab Sample IDs: 2267954

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.8	99.9	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A107103

Included Lab Sample IDs: 2267954

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A107130

Included Lab Sample IDs: 2267954

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A107130

Included Lab Sample IDs: 2267954

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A107136

Included Lab Sample IDs: 2267955

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: A107166

Included Lab Sample IDs: 2267954

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A107211

Included Lab Sample IDs: 2267955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107234

Included Lab Sample IDs: 2267955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	105	108	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A107399

Included Lab Sample IDs: 2267955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	96.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107450

Included Lab Sample IDs: 2267955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.4	94.8	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		Precision	
					LCS	MS
EPA 180.1 Rev. 2.0	Turbidity				1.51	
EPA 300.0 Rev. 2.1	Chloride	97.9	98.4	93.4	1.30	
	Sulfate	99.8	98.1	99.7	1.96	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	99.8	98.2		1.19
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	104	105		0.957
EPA 353.2 Rev. 2.0	NO2NO3-N	101	101	100		0.438
EPA 365.1 Rev. 2.0	Total-P	108	108	107		0.724
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	91.6	90.6		1.10
SM 2120 B-2011	Color (true)	98.2			0.336	
SM 2320 B-2011	Total Alkalinity	102			1.58	
SM 2540 C-2011	TDS				6.37	
SM 4500 F-C-2011	Fluoride	99.9	100	99.2		0.977
SM 5310 B-2011	Organic Carbon	96.6	96.5	96.5		0.0

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2267954
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2267954
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2267954
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2267955
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2267955
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2267955
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2267955
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2267956
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2267954
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2267954
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2267954
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2267954
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2267954
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2267955

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	08/06/2021			08/06/2021 14:57	Sarah A Nixon	2267954
EPA 300.0 Rev. 2.1	08/06/2021			08/12/2021 03:58	Lipi Saha	2267954
EPA 350.1 Rev. 2.0	08/06/2021			08/12/2021 12:50	Roberta Tatti	2267955
EPA 351.2 Rev. 2.0	08/06/2021	08/20/2021 12:58	Benjamin T. Nordmann	08/24/2021 15:06	Virginia P. Brown	2267955
EPA 353.2 Rev. 2.0	08/06/2021			08/10/2021 09:31	Beverly Y. Sanders	2267955
EPA 365.1 Rev. 2.0	08/06/2021	08/11/2021 13:55	Simonne.V. Calhoun	08/13/2021 10:07	Shengyu Ding	2267955
EPA 365.1 Rev. 2.0 dissolved	08/06/2021			08/06/2021 15:38	Blanca Fach	2267956
SM 2120 B-2011	08/06/2021			08/06/2021 16:07	Sarah A Nixon	2267954
SM 2320 B-2011	08/06/2021			08/09/2021 19:19	Sarah A Nixon	2267954
SM 2540 C-2011	08/06/2021			08/11/2021 14:58	Yijie Li	2267954
SM 2540 D-2011	08/06/2021			08/11/2021 14:58	Yijie Li	2267954
SM 4500 F-C-2011	08/06/2021			08/09/2021 19:19	Sarah A Nixon	2267954
SM 5310 B-2011	08/06/2021			08/21/2021 01:05	Madeline Gruver	2267955