

Chemical Analysis Report

SE-DIST-2021-10-13-01

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

Event Description: **SMP - 3135A deployment NNC, 3121 closeout**
Request ID: **RQ-2021-10-04-45**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 04-NOV-2021 14:08

A handwritten signature in black ink, appearing to read "Liang Lin", 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: C-54 confluence with Sebastian near Mockingbird Lane Dock

Collection Date/Time: 10/12/2021 13:45

Field ID: G5SE0106

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2282936	EPA 180.1 Rev. 2.0	Turbidity	4.2	A	NTU	P405011	
	SM 2320 B-2011	Total Alkalinity	165		mg CaCO3/L	P405148	
	SM 2540 D-2011	TSS	6	I	mg/L	P405409	
	SM 4500 F-C-2011	Fluoride	0.43		mg F/L	P405154	
2282938	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P405234	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P405752	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.040		mg N/L	P405037	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P405254	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P405725	
2282940	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.096		mg P/L	P405008	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Sebastian 970m Downstream of S-157

Collection Date/Time: 10/12/2021 14:45

Field ID: G5SE0084

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2282937	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P405011	
	SM 2320 B-2011	Total Alkalinity	145		mg CaCO3/L	P405136	
	SM 2540 D-2011	TSS	36		mg/L	P405409	
	SM 4500 F-C-2011	Fluoride	0.47		mg F/L	P405137	
2282939	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P405234	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6	J	mg N/L	P405752	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.045		mg N/L	P405037	
	EPA 365.1 Rev. 2.0	Total-P	0.28		mg P/L	P405254	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P405725	
2282941	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.088		mg P/L	P405008	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P405011

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405234

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P405752

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405037

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405254

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405008

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

Reference Method: SM 2320 B-2011
Batch ID: P405136

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

Reference Method: SM 2320 B-2011
Batch ID: P405148

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

Reference Method: SM 2540 D-2011
Batch ID: P405409

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P405137

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P405154

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P405725

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405234

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P405752

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405037

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: P405254

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: P405008

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

Reference Method: SM 2320 B-2011
Batch ID: P405136

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.3		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P405148

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

Reference Method: SM 4500 F-C-2011
Batch ID: P405137

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P405154

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P405725

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405234

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282189	Ammonia-N	103	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P405752

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282939	Kjeldahl Nitrogen	106	117	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282938	NO2NO3-N	98.6	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2283419	Total-P	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405008

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282988	O-Phosphate-P	98.7	98.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P405137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2281619	Fluoride	99.8	99.8	P/P	92 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P405154

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2282443	Fluoride	102	101	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P405725

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284503	Organic Carbon	93.2	93.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P405011

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282936	Turbidity	1.91	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P405234

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282189	Ammonia-N	0.183	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P405752

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282939	Kjeldahl Nitrogen	6.59	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P405037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282938	NO2NO3-N	0.421	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P405254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2283419	Total-P	0.773	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P405008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282988	O-Phosphate-P	0.130	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P405136

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2281619	Total Alkalinity	1.69	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P405148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282443	Total Alkalinity	4.87	Sample	P	0 - 5.2

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P405137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2281619	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P405154

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2282443	Fluoride	0.513	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P405725

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284503	Organic Carbon	0.220	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: A108313

Included Lab Sample IDs: 2282940, 2282941

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A108314

Included Lab Sample IDs: 2282936, 2282937

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	98.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A108330

Included Lab Sample IDs: 2282938, 2282939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A108367

Included Lab Sample IDs: 2282937

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.4	97.8	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A108367

Included Lab Sample IDs: 2282937

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	102	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A108368

Included Lab Sample IDs: 2282936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.2	99.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A108368

Included Lab Sample IDs: 2282936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A108412

Included Lab Sample IDs: 2282938, 2282939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	98.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A108435

Included Lab Sample IDs: 2282938, 2282939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	106	102	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A108594

Included Lab Sample IDs: 2282938, 2282939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.2	94.4	P/P	90 - 110
Organic Carbon	94.4	94.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A108648

Included Lab Sample IDs: 2282938, 2282939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	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	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					1.91	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	103	103			0.183
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	106	117			6.59
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	98.6	99.1			0.421
EPA 365.1 Rev. 2.0	Total-P	107	101	102			0.773
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2	98.7	98.5			0.130
SM 2320 B-2011	Total Alkalinity	98.3				1.69	
	Total Alkalinity	102				4.87	
SM 4500 F-C-2011	Fluoride	101	99.8	99.8			0.0
	Fluoride	103	102	101			0.513
SM 5310 B-2011	Organic Carbon	96.4	93.2	93.0			0.220

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2282936, 2282937
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2282938, 2282939
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2282938, 2282939
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2282938, 2282939
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2282938, 2282939
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2282940, 2282941
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2282936, 2282937
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2282936, 2282937
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2282936, 2282937
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2282938, 2282939

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	10/13/2021			10/13/2021 15:31	Khloe J Berg	2282936, 2282937
EPA 350.1 Rev. 2.0	10/13/2021			10/19/2021 13:11	Ping Hua	2282938
	10/13/2021			10/19/2021 13:15	Ping Hua	2282939
EPA 351.2 Rev. 2.0	10/13/2021	10/29/2021 10:50	Benjamin T. Nordmann	11/01/2021 10:24	Alexandra J Mattheus	2282938
	10/13/2021	10/29/2021 10:50	Benjamin T. Nordmann	11/01/2021 10:26	Alexandra J Mattheus	2282939
EPA 353.2 Rev. 2.0	10/13/2021			10/14/2021 11:17	Beverly Y. Sanders	2282938
	10/13/2021			10/14/2021 11:23	Beverly Y. Sanders	2282939
EPA 365.1 Rev. 2.0	10/13/2021	10/19/2021 16:46	Simonne.V. Calhoun	10/20/2021 12:34	Lipi Saha	2282938
	10/13/2021	10/19/2021 16:46	Simonne.V. Calhoun	10/20/2021 12:35	Lipi Saha	2282939
EPA 365.1 Rev. 2.0 dissolved	10/13/2021			10/13/2021 15:37	James L Waggeberby	2282940
	10/13/2021			10/13/2021 15:38	James L Waggeberby	2282941
SM 2320 B-2011	10/13/2021			10/14/2021 16:22	Dale L. Simmons	2282937
	10/13/2021			10/16/2021 18:33	Dale L. Simmons	2282936
SM 2540 D-2011	10/13/2021			10/14/2021 15:39	Yijie Li	2282936, 2282937
SM 4500 F-C-2011	10/13/2021			10/14/2021 15:31	Dale L. Simmons	2282937
	10/13/2021			10/16/2021 18:33	Dale L. Simmons	2282936
SM 5310 B-2011	10/13/2021			10/26/2021 12:42	Khloe J Berg	2282938
	10/13/2021			10/26/2021 13:54	Khloe J Berg	2282939