

Chemical Analysis Report

CEN-DIST-2024-07-03-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Algal Bloom Response - CEROC**
Request ID: **RQ-2024-06-24-55**
Customer: **CEN-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 19-JUL-2024 08:56



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 groups are included in this report: Nutrients and Pesticides.

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: Chari Lake - N Shore

Collection Date/Time: 07/02/2024 11:36

Field ID: HABCE0249

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2499273	DEP SOP: NU-094-1	Color (true)	100		PCU	P447441	
2499274	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P447929	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	14		mg N/L	P447906	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P447741	
	EPA 365.1 Rev. 2.0	Total-P	1.8		mg P/L	P447815	
2499275	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.22		mg P/L	P447448	
2499285	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P447405	
		Cylindrospermopsin	0.10	U	ug/L	P447404	
		Desmethyl microcystin LR	0.25	U	ug/L	P447404	
		Microcystin HilR	0.25	U	ug/L	P447404	
		Microcystin HtyR	0.25	U	ug/L	P447404	
		Microcystin LA	0.10	U	ug/L	P447404	
		Microcystin LF	0.10	U	ug/L	P447404	
		Microcystin LR	0.25	U	ug/L	P447404	
		Microcystin LW	0.25	U	ug/L	P447404	
		Microcystin LY	0.10	U	ug/L	P447404	
		Microcystin RR	0.10	U	ug/L	P447404	
		Microcystin WR	0.50	U	ug/L	P447404	
		Neosaxitoxin	0.50	U	ug/L	P447405	
		Microcystin YR	0.25	U	ug/L	P447404	
		Saxitoxin	0.50	U	ug/L	P447405	
		Nodularin-R	0.10	U	ug/L	P447404	

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P447441

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447929

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447906

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447741

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447815

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447448

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

Reference Method: EPA 8321B
Batch ID: P447404

Component	Result	Code	Units
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin H11R	0.25	U	ug/L
Microcystin HtyR	0.25	U	ug/L
Microcystin LA	0.10	U	ug/L
Microcystin LF	0.10	U	ug/L
Microcystin LR	0.25	U	ug/L
Microcystin LW	0.25	U	ug/L
Microcystin LY	0.10	U	ug/L
Microcystin RR	0.10	U	ug/L
Microcystin WR	0.50	U	ug/L
Microcystin YR	0.25	U	ug/L
Nodularin-R	0.10	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P447405

Component	Result	Code	Units
Anatoxin-a	0.25	U	ug/L
Neosaxitoxin	0.50	U	ug/L
Saxitoxin	0.50	U	ug/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P447441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447929

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447906

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447741

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447815

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.1		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P447404

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	79.0		P	40 - 160
Desmethyl microcystin LR	87.2		P	40 - 160
Microcystin HILR	83.9		P	40 - 160
Microcystin HtyR	86.4		P	40 - 160
Microcystin LA	86.5		P	40 - 160
Microcystin LF	87.4		P	40 - 160
Microcystin LR	85.3		P	40 - 160
Microcystin LW	86.8		P	40 - 160
Microcystin LY	90.9		P	40 - 160
Microcystin RR	92.5		P	40 - 160
Microcystin WR	81.8		P	40 - 160
Microcystin YR	71.0		P	40 - 160
Nodularin-R	91.4		P	40 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P447405

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	110		P	40 - 150
Neosaxitoxin	135		P	40 - 150
Saxitoxin	109		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2499279	Ammonia-N	95.4	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2500770	Kjeldahl Nitrogen	104	110	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447741

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2497420	NO2NO3-N	98.4	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2499366	Total-P	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2499235	O-Phosphate-P	94.6	92.3	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P447404

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2499269	Cylindrospermopsin	63.8	64.4	P/P	40 - 160
2499269	Desmethyl microcystin LR	71.8	73.8	P/P	40 - 160
2499269	Microcystin HiLR	74.6	72.1	P/P	40 - 160
2499269	Microcystin HtyR	68.4	66.6	P/P	40 - 160
2499269	Microcystin LA	70.7	72.4	P/P	40 - 160
2499269	Microcystin LF	78.5	77.1	P/P	40 - 160
2499269	Microcystin LR	68.9	71.2	P/P	40 - 160
2499269	Microcystin LW	72.1	72.9	P/P	40 - 160
2499269	Microcystin LY	73.6	74.0	P/P	40 - 160
2499269	Microcystin RR	76.9	77.4	P/P	40 - 160
2499269	Microcystin WR	69.5	70.5	P/P	40 - 160
2499269	Microcystin YR	60.7	58.2	P/P	40 - 160
2499269	Nodularin-R	75.3	72.9	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P447405

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2499269	Anatoxin-a	112	105	P/P	40 - 150
2499269	Neosaxitoxin	113	103	P/P	40 - 150
2499269	Saxitoxin	99.2	92.0	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P447441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2499263	Color (true)	7.69	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447929

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2499279	Ammonia-N	0.724	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2500770	Kjeldahl Nitrogen	5.62	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447741

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497420	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2499366	Total-P	0.323	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2499235	O-Phosphate-P	1.65	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P447404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2499269	Cylindrospermopsin	0.879	Spike	P	0 - 30
2499269	Desmethyl microcystin LR	2.80	Spike	P	0 - 30
2499269	Microcystin HtIR	3.47	Spike	P	0 - 30
2499269	Microcystin HtyR	2.63	Spike	P	0 - 30
2499269	Microcystin LA	2.36	Spike	P	0 - 30
2499269	Microcystin LF	1.78	Spike	P	0 - 30
2499269	Microcystin LR	3.22	Spike	P	0 - 30
2499269	Microcystin LW	1.07	Spike	P	0 - 30
2499269	Microcystin LY	0.513	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P447404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2499269	Microcystin RR	0.652	Spike	P	0 - 30
2499269	Microcystin WR	1.38	Spike	P	0 - 30
2499269	Microcystin YR	4.09	Spike	P	0 - 30
2499269	Nodularin-R	3.23	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P447405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2499269	Anatoxin-a	6.58	Spike	P	0 - 30
2499269	Neosaxitoxin	8.97	Spike	P	0 - 30
2499269	Saxitoxin	7.50	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report
Surrogates

Lab Sample ID: 2499285
Field Sample ID: HABCE0249

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	103	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	87.6	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A126474
Included Lab Sample IDs: 2499285

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	93.4	110	P/P	50 - 160
Neosaxitoxin	126	124	P/P	50 - 160
Saxitoxin	100	110	P/P	50 - 160

Reference Method: DEP SOP: NU-094-1
Run ID: A126494
Included Lab Sample IDs: 2499273

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	97.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A126496
Included Lab Sample IDs: 2499275

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	99.1	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A126502
Included Lab Sample IDs: 2499285

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	77.5	79.6	P/P	60 - 160
Desmethyl microcystin LR	91.5	91.8	P/P	60 - 160
Microcystin HILR	86.7	87.5	P/P	60 - 160
Microcystin HtyR	85.6	82.9	P/P	60 - 160
Microcystin LA	88.0	86.6	P/P	50 - 160
Microcystin LF	86.8	85.8	P/P	50 - 160
Microcystin LR	84.8	89.9	P/P	60 - 160
Microcystin LW	86.4	83.7	P/P	60 - 160
Microcystin LY	89.3	89.1	P/P	60 - 160
Microcystin RR	93.9	93.8	P/P	60 - 160
Microcystin WR	80.8	82.3	P/P	60 - 160
Microcystin YR	71.0	73.6	P/P	60 - 160
Nodularin-R	89.7	93.8	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A126621
Included Lab Sample IDs: 2499274

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A126675
Included Lab Sample IDs: 2499274

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	101	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A126694
Included Lab Sample IDs: 2499274

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A126727
Included Lab Sample IDs: 2499274

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.0	102	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	
DEP SOP: NU-094-1	Color (true)	96.5				7.69	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	95.4	96.8			0.724
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	104	110			5.62
EPA 353.2 Rev. 2.0	NO2NO3-N	102	98.4	98.4			0.0
EPA 365.1 Rev. 2.0	Total-P	99.2	101	101			0.323
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	94.6	92.3			1.65
EPA 8321B	Anatoxin-a	110	112	105			6.58
	Cylindrospermopsin	79.0	63.8	64.4			0.879
	Desmethyl microcystin LR	87.2	71.8	73.8			2.80
	Microcystin HiLR	83.9	74.6	72.1			3.47
	Microcystin HtyR	86.4	68.4	66.6			2.63
	Microcystin LA	86.5	70.7	72.4			2.36
	Microcystin LF	87.4	78.5	77.1			1.78
	Microcystin LR	85.3	68.9	71.2			3.22
	Microcystin LW	86.8	72.1	72.9			1.07
	Microcystin LY	90.9	73.6	74.0			0.513
	Microcystin RR	92.5	76.9	77.4			0.652
	Microcystin WR	81.8	69.5	70.5			1.38
	Microcystin YR	71.0	60.7	58.2			4.09
	Neosaxitoxin	135	113	103			8.97
	Nodularin-R	91.4	75.3	72.9			3.23
	Saxitoxin	109	99.2	92.0			7.50

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2499273
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2499274
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2499274
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2499274
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2499274
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2499275
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2499285
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2499285

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	07/03/2024			07/03/2024 14:27	Anna M. Plaviak	2499273
EPA 350.1 Rev. 2.0	07/03/2024			07/16/2024 12:34	Khloe J Berg	2499274
EPA 351.2 Rev. 2.0	07/03/2024	07/16/2024 12:47	Robyn Blevins	07/17/2024 10:26	Samantha L Bates	2499274
EPA 353.2 Rev. 2.0	07/03/2024			07/11/2024 14:24	Fadila Guebre	2499274
EPA 365.1 Rev. 2.0	07/03/2024	07/12/2024 18:47	Adam P Silver	07/15/2024 19:02	Elise M. Gillis	2499274
EPA 365.1 Rev. 2.0 dissolved	07/03/2024			07/03/2024 14:51	Elise M. Gillis	2499275
EPA 8321B	07/03/2024	07/03/2024 12:00	Tae K Lee	07/03/2024 20:30	Tae K Lee	2499285
	07/03/2024	07/03/2024 12:00	Tae K Lee	07/04/2024 04:01	Tae K Lee	2499285