

Chemical Analysis Report

NE-DIST-2024-06-18-01

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

Event Description: **Algae Bloom Response NEROC-as needed**
Request ID: **RQ-2024-03-04-72**
Customer: **NE-DIST**
Project ID: **BLOOM-RESP**

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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 02-JUL-2024 11:26



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 ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2494198	DEP SOP: NU-094-1	Color (true)	64		PCU	P446659	
2494200	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P446924	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P446851	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446927	
	EPA 365.1 Rev. 2.0	Total-P	0.097		mg P/L	P446743	
2494202	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.057		mg P/L	P446654	
2494204	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P446612	
		Cylindrospermopsin	0.10	U	ug/L	P446610	
		Desmethyl microcystin LR	0.25	U	ug/L	P446610	
		Microcystin H1IR	0.25	U	ug/L	P446610	
		Microcystin HtyR	0.25	U	ug/L	P446610	
		Microcystin LA	0.10	U	ug/L	P446610	
		Microcystin LF	0.10	U	ug/L	P446610	
		Microcystin LR	1.9		ug/L	P446610	
		Microcystin LW	0.25	U	ug/L	P446610	
		Microcystin LY	0.10	U	ug/L	P446610	
		Microcystin RR	0.10	U	ug/L	P446610	
		Microcystin WR	0.50	U	ug/L	P446610	
		Neosaxitoxin	0.50	U	ug/L	P446612	
		Microcystin YR	0.25	U	ug/L	P446610	
		Saxitoxin	0.50	U	ug/L	P446612	
		Nodularin-R	0.10	U	ug/L	P446610	

Sample Location: Doctors Lake at end of Lawrence Rd

Collection Date/Time: 06/17/2024 11:30

Field ID: NEHAB0073				Matrix: W-SURF-SLT			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2494197	DEP SOP: NU-094-1	Color (true)	64		PCU	P446659	
2494199	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P446924	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P446851	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446927	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P446743	
2494201	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.059		mg P/L	P446654	
2494203	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P446612	
		Cylindrospermopsin	0.10	U	ug/L	P446610	
		Desmethyl microcystin LR	0.25	U	ug/L	P446610	
		Microcystin HilR	0.25	U	ug/L	P446610	
		Microcystin HtyR	0.25	U	ug/L	P446610	
		Microcystin LA	0.10	U	ug/L	P446610	
		Microcystin LF	0.10	U	ug/L	P446610	
		Microcystin LR	0.78	I	ug/L	P446610	
		Microcystin LW	0.25	U	ug/L	P446610	
		Microcystin LY	0.10	U	ug/L	P446610	
		Microcystin RR	0.10	U	ug/L	P446610	
		Microcystin WR	0.50	U	ug/L	P446610	
		Neosaxitoxin	0.50	U	ug/L	P446612	
		Microcystin YR	0.25	U	ug/L	P446610	
		Saxitoxin	0.50	U	ug/L	P446612	
		Nodularin-R	0.10	U	ug/L	P446610	

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P446659

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446924

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446851

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446927

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446743

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P446654

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

Reference Method: EPA 8321B
Batch ID: P446610

Component	Result	Code	Units
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin H1LR	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: P446612

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: P446659

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446924

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446851

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446927

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446743

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P446654

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

Reference Method: EPA 8321B
Batch ID: P446610

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	111		P	40 - 160
Desmethyl microcystin LR	90.0		P	40 - 160
Microcystin HILR	98.3		P	40 - 160
Microcystin HtyR	95.3		P	40 - 160
Microcystin LA	104		P	40 - 160
Microcystin LF	108		P	40 - 160
Microcystin LR	95.1		P	40 - 160
Microcystin LW	109		P	40 - 160
Microcystin LY	108		P	40 - 160
Microcystin RR	94.9		P	40 - 160
Microcystin WR	95.2		P	40 - 160
Microcystin YR	102		P	40 - 160
Nodularin-R	98.1		P	40 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P446612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	117		P	40 - 150
Neosaxitoxin	119		P	40 - 150
Saxitoxin	120		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446924

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2494457	Ammonia-N	93.6	94.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2494128	Kjeldahl Nitrogen	105	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446927

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2494199	NO2NO3-N	91.9	91.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2494200	Total-P	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P446654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2494202	O-Phosphate-P	96.1	96.6	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P446610

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2494192	Cylindrospermopsin	109	118	P/P	40 - 160
2494192	Desmethyl microcystin LR	95.6	98.4	P/P	40 - 160
2494192	Microcystin HiLR	96.2	104	P/P	40 - 160
2494192	Microcystin HtyR	96.1	102	P/P	40 - 160
2494192	Microcystin LA	104	108	P/P	40 - 160
2494192	Microcystin LF	124	131	P/P	40 - 160
2494192	Microcystin LR	98.7	97.9	P/P	40 - 160
2494192	Microcystin LW	113	114	P/P	40 - 160
2494192	Microcystin LY	112	120	P/P	40 - 160
2494192	Microcystin RR	94.7	105	P/P	40 - 160
2494192	Microcystin WR	102	112	P/P	40 - 160
2494192	Microcystin YR	97.6	108	P/P	40 - 160
2494192	Nodularin-R	98.4	107	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P446612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2494192	Anatoxin-a	112	114	P/P	40 - 150
2494192	Neosaxitoxin	73.2	71.6	P/P	40 - 150
2494192	Saxitoxin	82.4	81.7	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P446659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494220	Color (true)	3.99	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446924

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494457	Ammonia-N	0.960	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494128	Kjeldahl Nitrogen	2.00	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494199	NO2NO3-N	0.546	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494200	Total-P	0.563	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P446654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494202	O-Phosphate-P	0.326	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P446610

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494192	Cylindrospermopsin	8.62	Spike	P	0 - 30
2494192	Desmethyl microcystin LR	2.89	Spike	P	0 - 30
2494192	Microcystin HtIR	7.82	Spike	P	0 - 30
2494192	Microcystin HtyR	5.72	Spike	P	0 - 30
2494192	Microcystin LA	4.61	Spike	P	0 - 30
2494192	Microcystin LF	5.25	Spike	P	0 - 30
2494192	Microcystin LR	0.868	Spike	P	0 - 30
2494192	Microcystin LW	0.845	Spike	P	0 - 30
2494192	Microcystin LY	6.56	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P446610

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494192	Microcystin RR	9.89	Spike	P	0 - 30
2494192	Microcystin WR	9.38	Spike	P	0 - 30
2494192	Microcystin YR	10.2	Spike	P	0 - 30
2494192	Nodularin-R	8.54	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P446612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494192	Anatoxin-a	1.50	Spike	P	0 - 30
2494192	Neosaxitoxin	2.19	Spike	P	0 - 30
2494192	Saxitoxin	0.824	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2494203
Field Sample ID: NEHAB0073

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	117	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	109	P	30 - 160

Lab Sample ID: 2494204
Field Sample ID: NEHAB0117

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	117	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	114	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A126207
Included Lab Sample IDs: 2494201, 2494202

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.6	97.4	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A126208
Included Lab Sample IDs: 2494197, 2494198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A126221
Included Lab Sample IDs: 2494203, 2494204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	127	123	P/P	60 - 160
Desmethyl microcystin LR	101	106	P/P	60 - 160
Microcystin HiiR	114	111	P/P	60 - 160
Microcystin HtyR	111	110	P/P	60 - 160
Microcystin LA	114	118	P/P	50 - 160
Microcystin LF	133	132	P/P	50 - 160
Microcystin LR	105	105	P/P	60 - 160
Microcystin LW	126	122	P/P	60 - 160
Microcystin LY	128	129	P/P	60 - 160
Microcystin RR	109	104	P/P	60 - 160
Microcystin WR	111	119	P/P	60 - 160
Microcystin YR	111	112	P/P	60 - 160
Nodularin-R	108	113	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A126249
Included Lab Sample IDs: 2494203, 2494204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	110	132	P/P	50 - 160
Neosaxitoxin	126	125	P/P	50 - 160
Saxitoxin	129	138	P/P	50 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A126252
Included Lab Sample IDs: 2494199

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A126280
Included Lab Sample IDs: 2494200

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A126303
Included Lab Sample IDs: 2494199, 2494200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A126304
Included Lab Sample IDs: 2494199, 2494200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A126326
Included Lab Sample IDs: 2494199, 2494200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	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)	102				3.99	
EPA 350.1 Rev. 2.0	Ammonia-N	93.0	93.6	94.8			0.960
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	105	108			2.00
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	91.9	91.4			0.546
EPA 365.1 Rev. 2.0	Total-P	100	105	104			0.563
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	96.1	96.6			0.326
EPA 8321B	Anatoxin-a	117	112	114			1.50
	Cylindrospermopsin	111	109	118			8.62
	Desmethyl microcystin LR	90.0	95.6	98.4			2.89
	Microcystin HiLR	98.3	96.2	104			7.82
	Microcystin HtyR	95.3	96.1	102			5.72
	Microcystin LA	104	104	108			4.61
	Microcystin LF	108	124	131			5.25
	Microcystin LR	95.1	98.7	97.9			0.868
	Microcystin LW	109	113	114			0.845
	Microcystin LY	108	112	120			6.56
	Microcystin RR	94.9	94.7	105			9.89
	Microcystin WR	95.2	102	112			9.38
	Microcystin YR	102	97.6	108			10.2
	Neosaxitoxin	119	73.2	71.6			2.19
	Nodularin-R	98.1	98.4	107			8.54
	Saxitoxin	120	82.4	81.7			0.824

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2494197, 2494198
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2494199, 2494200
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2494199, 2494200
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2494199, 2494200
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2494199, 2494200
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2494201, 2494202
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2494203, 2494204
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2494203, 2494204

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	06/18/2024			06/18/2024 14:41	Jessica K Wilks	2494197
	06/18/2024			06/18/2024 14:42	Jessica K Wilks	2494198
EPA 350.1 Rev. 2.0	06/18/2024			06/21/2024 15:46	Kenneth H Lee	2494199
	06/18/2024			06/21/2024 15:47	Kenneth H Lee	2494200
EPA 351.2 Rev. 2.0	06/18/2024	06/21/2024 10:12	Simonne.V. Calhoun	06/24/2024 16:09	Ping Hua	2494199
	06/18/2024	06/21/2024 10:12	Simonne.V. Calhoun	06/24/2024 16:10	Ping Hua	2494200
EPA 353.2 Rev. 2.0	06/18/2024			06/21/2024 14:16	Fadila Guebre	2494199
	06/18/2024			06/21/2024 14:23	Fadila Guebre	2494200
EPA 365.1 Rev. 2.0	06/18/2024	06/19/2024 13:15	Josephine W Gitau	06/19/2024 17:13	Elise M. Gillis	2494199
	06/18/2024	06/19/2024 13:15	Josephine W Gitau	06/20/2024 15:26	Simonne.V. Calhoun	2494200
EPA 365.1 Rev. 2.0 dissolved	06/18/2024			06/18/2024 14:37	James L Waggerby	2494202
	06/18/2024			06/18/2024 14:40	James L Waggerby	2494201
EPA 8321B	06/18/2024	06/18/2024 15:45	Tae K Lee	06/18/2024 17:34	Tae K Lee	2494203
	06/18/2024	06/18/2024 15:45	Tae K Lee	06/18/2024 17:51	Tae K Lee	2494204
	06/18/2024	06/18/2024 15:45	Tae K Lee	06/19/2024 11:17	Tae K Lee	2494203
	06/18/2024	06/18/2024 15:45	Tae K Lee	06/19/2024 11:31	Tae K Lee	2494204