

Chemical Analysis Report

SE-DIST-2024-04-30-02

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

Event Description: **Algal Bloom Response - SE ROC**
Request ID: **RQ-2024-04-22-56**
Customer: **SE-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 28-MAY-2024 12:57



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: St. Lucie River - at Four Rivers

Collection Date/Time: 04/29/2024 11:45

Field ID: SEHAB0112

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485537	DEP SOP: NU-094-1	Color (true)	33		PCU	P444989	
2485543	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P445221	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P445238	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.015		mg N/L	P445261	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P445324	
2485549	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.070		mg P/L	P444994	

Sample Location: C-23 Canal - SW Citrus Blvd

Collection Date/Time: 04/29/2024 13:15

Field ID: SEHAB0117

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485538	DEP SOP: NU-094-1	Color (true)	60		PCU	P444989	
2485544	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P445344	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P445237	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P445532	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P445059	
2485550	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.011		mg P/L	P444993	

Sample Location: St. Lucie River - Harborage

Collection Date/Time: 04/29/2024 12:15

Field ID: SEHAB0115

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485539	DEP SOP: NU-094-1	Color (true)	14		PCU	P444989	
2485545	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P445221	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P445238	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.021		mg N/L	P445261	
	EPA 365.1 Rev. 2.0	Total-P	0.097		mg P/L	P445324	
2485551	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.073		mg P/L	P444994	

Sample Location: St. Lucie River - at Palm City Bridge

Collection Date/Time: 04/29/2024 11:00

Field ID: SEHAB0113

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485540	DEP SOP: NU-094-1	Color (true)	22		PCU	P444990	
2485546	EPA 350.1 Rev. 2.0	Ammonia-N	0.046		mg N/L	P445221	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.84		mg N/L	P445238	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P445261	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P445324	
2485552	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.090		mg P/L	P444994	

Sample Location: St. Lucie Canal - 96th Street Bridge

Collection Date/Time: 04/29/2024 10:30

Field ID: SEHAB0111

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485541	DEP SOP: NU-094-1	Color (true)	44	A	PCU	P444990	
2485547	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P445344	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P445237	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.070		mg N/L	P445532	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P445059	
2485553	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.035		mg P/L	P444993	

Sample Location: St. Lucie Canal - Army Corps Campground

Collection Date/Time: 04/29/2024 10:00

Field ID: SEHAB0116

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485542	DEP SOP: NU-094-1	Color (true)	42		PCU	P444990	
2485548	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P445344	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P445237	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.061		mg N/L	P445532	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P445059	
2485554	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.038		mg P/L	P444993	

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P444989

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P444990

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445221

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445344

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445237

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445238

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445261

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445532

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P445059

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P445324

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444993

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444994

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P444989

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.5		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P444990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445344

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445237

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.5		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445238

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	103		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445261

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445532

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: P445059

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P445324

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444993

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444994

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485490	Ammonia-N	97.0	96.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445344

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485453	Ammonia-N	95.2	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485485	Kjeldahl Nitrogen	107	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485794	Kjeldahl Nitrogen	99.6	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445261

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485303	NO2NO3-N	97.6	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485453	NO2NO3-N	95.4	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P445059

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485534	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P445324

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2486398	Total-P	95.6	97.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444993

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485454	O-Phosphate-P	99.2	99.4	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485549	O-Phosphate-P	101	101	P/P	90 - 110

Quality Assurance Report

Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P444989

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485452	Color (true)	0.580	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P444990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485541	Color (true)	1.54	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485490	Ammonia-N	0.206	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485453	Ammonia-N	2.16	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485485	Kjeldahl Nitrogen	1.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445238

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485794	Kjeldahl Nitrogen	0.171	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485303	NO2NO3-N	0.475	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485453	NO2NO3-N	4.61	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P445059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485534	Total-P	0.205	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P445324

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2486398	Total-P	1.94	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485454	O-Phosphate-P	0.173	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485549	O-Phosphate-P	0.293	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A125591

Included Lab Sample IDs: 2485537, 2485538, 2485539, 2485540, 2485541, 2485542

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.4	99.5	P/P	90 - 110
Color (true)	99.5	97.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A125592

Included Lab Sample IDs: 2485549, 2485550, 2485551, 2485552, 2485553, 2485554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	100	P/P	90 - 110
O-Phosphate-P	100	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A125631

Included Lab Sample IDs: 2485544, 2485547, 2485548

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A125671

Included Lab Sample IDs: 2485543, 2485545, 2485546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	97.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A125687

Included Lab Sample IDs: 2485543, 2485545, 2485546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A125724

Included Lab Sample IDs: 2485544, 2485547, 2485548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	99.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A125725

Included Lab Sample IDs: 2485543, 2485544, 2485545, 2485546, 2485547, 2485548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	105	P/P	90 - 110
Kjeldahl Nitrogen	109	107	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125739
Included Lab Sample IDs: 2485543, 2485546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125742
Included Lab Sample IDs: 2485545

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A125796
Included Lab Sample IDs: 2485544, 2485547, 2485548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	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		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	97.5			0.580	
	Color (true)	97.8			1.54	
EPA 350.1 Rev. 2.0	Ammonia-N	94.0	97.0	96.8		0.206
	Ammonia-N	95.2	95.2	97.8		2.16
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.5	107	108		1.15
	Kjeldahl Nitrogen	103	99.6	99.4		0.171
EPA 353.2 Rev. 2.0	NO2NO3-N	102	97.6	98.1		0.475
	NO2NO3-N	102	95.4	100		4.61
EPA 365.1 Rev. 2.0	Total-P	105	103	103		0.205
	Total-P	103	95.6	97.4		1.94
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	99.2	99.4		0.173
	O-Phosphate-P	105	101	101		0.293

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2485537, 2485538, 2485539, 2485540, 2485541, 2485542
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2485543, 2485544, 2485545, 2485546, 2485547, 2485548
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2485543, 2485544, 2485545, 2485546, 2485547, 2485548
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2485543, 2485544, 2485545, 2485546, 2485547, 2485548
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2485543, 2485544, 2485545, 2485546, 2485547, 2485548
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2485549, 2485550, 2485551, 2485552, 2485553, 2485554

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	04/30/2024			04/30/2024 14:08	Jessica K Wilks	2485537, 2485538
	04/30/2024			04/30/2024 14:09	Jessica K Wilks	2485539
	04/30/2024			04/30/2024 14:11	Jessica K Wilks	2485540
	04/30/2024			04/30/2024 14:12	Jessica K Wilks	2485541
	04/30/2024			04/30/2024 14:13	Jessica K Wilks	2485542
EPA 350.1 Rev. 2.0	04/30/2024			05/03/2024 12:28	Kenneth H Lee	2485543
	04/30/2024			05/03/2024 12:29	Kenneth H Lee	2485545
	04/30/2024			05/03/2024 12:30	Kenneth H Lee	2485546
	04/30/2024			05/07/2024 11:09	Khloe J Berg	2485544
	04/30/2024			05/07/2024 11:11	Khloe J Berg	2485547
EPA 351.2 Rev. 2.0	04/30/2024			05/07/2024 11:12	Khloe J Berg	2485548
	04/30/2024	05/07/2024 09:24	Simonne.V. Calhoun	05/07/2024 14:16	Ping Hua	2485544
	04/30/2024	05/07/2024 09:24	Simonne.V. Calhoun	05/07/2024 14:18	Ping Hua	2485547
	04/30/2024	05/07/2024 09:24	Simonne.V. Calhoun	05/07/2024 14:20	Ping Hua	2485548
	04/30/2024	05/07/2024 09:24	Simonne.V. Calhoun	05/07/2024 14:26	Ping Hua	2485543
EPA 353.2 Rev. 2.0	04/30/2024	05/07/2024 09:24	Simonne.V. Calhoun	05/07/2024 14:31	Ping Hua	2485545
	04/30/2024	05/07/2024 09:24	Simonne.V. Calhoun	05/07/2024 14:33	Ping Hua	2485546
	04/30/2024			05/03/2024 15:00	Fadila Guebre	2485543
	04/30/2024			05/03/2024 15:01	Fadila Guebre	2485545
	04/30/2024			05/03/2024 15:02	Fadila Guebre	2485546
EPA 365.1 Rev. 2.0	04/30/2024			05/09/2024 13:53	Fadila Guebre	2485544
	04/30/2024			05/09/2024 13:54	Fadila Guebre	2485547
	04/30/2024			05/09/2024 13:55	Fadila Guebre	2485548
	04/30/2024	05/01/2024 15:32	Adam P Silver	05/02/2024 08:19	Simonne.V. Calhoun	2485544
	04/30/2024	05/01/2024 15:32	Adam P Silver	05/02/2024 08:20	Simonne.V. Calhoun	2485547
EPA 365.1 Rev. 2.0 dissolved	04/30/2024	05/01/2024 15:32	Adam P Silver	05/02/2024 08:21	Simonne.V. Calhoun	2485548
	04/30/2024	05/07/2024 13:28	Adam P Silver	05/08/2024 10:23	Simonne.V. Calhoun	2485543
	04/30/2024	05/07/2024 13:28	Adam P Silver	05/08/2024 10:25	Simonne.V. Calhoun	2485546
	04/30/2024	05/07/2024 13:28	Adam P Silver	05/08/2024 10:40	Simonne.V. Calhoun	2485545
	04/30/2024			04/30/2024 14:04	Chandler E Cox	2485550
	04/30/2024			04/30/2024 14:05	Chandler E Cox	2485553, 2485554
	04/30/2024			04/30/2024 14:10	Chandler E Cox	2485549
	04/30/2024			04/30/2024 14:16	Chandler E Cox	2485551
	04/30/2024			04/30/2024 14:17	Chandler E Cox	2485552