

Chemical Analysis Report

SO-DIST-2024-03-12-01

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

Event Description: **SCCF ALGAL DYNAMICS STUDY**
Request ID: **RQ-2024-02-05-25**
Customer: **SO-DIST**
Project ID: **DISCRTNARY**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
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Certified by: Marek Topolski, Environmental Administrator

Date Certified: 09-APR-2024 11:17

A handwritten signature in black ink, appearing to read "Marek Topolski", with a stylized, flowing script.

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: 26.71393, -81.56266

Collection Date/Time: 03/11/2024 08:45

Field ID: CLEW04

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2474558	EPA 350.1 Rev. 2.0	Ammonia-N	0.055		mg N/L	P443064	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P442638	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.080		mg N/L	P442736	
	EPA 365.1 Rev. 2.0	Total-P	0.073		mg P/L	P442875	
2474563	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.055		mg N/L	P443064	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.91		mg N/L	P442870	
2474568	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P442653	

Sample Location: 26.69315, 81.79630

Collection Date/Time: 03/11/2024 11:25

Field ID: ORANGE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2474559	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P443064	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P442639	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P442736	
	EPA 365.1 Rev. 2.0	Total-P	0.073		mg P/L	P442875	
2474564	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.022		mg N/L	P443064	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.88		mg N/L	P442870	
2474569	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.021		mg P/L	P442652	

Sample Location: 26.70324, 81.80525

Collection Date/Time: 03/11/2024 12:00

Field ID: POPASH

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2474560	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P443068	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P442639	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.026		mg N/L	P442736	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P442875	
2474565	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.010		mg N/L	P443068	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.82		mg N/L	P442870	
2474570	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.058		mg P/L	P442653	

Sample Location: 26.65737, 81.89425

Collection Date/Time: 03/11/2024 12:55

Field ID: HANCOCK

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2474561	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P442948	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P442976	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.063		mg N/L	P442737	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P442875	
2474566	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.036		mg N/L	P443068	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.91		mg N/L	P442870	
2474571	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.081		mg P/L	P442653	

Sample Location: 26.57761, -81.89881

Collection Date/Time: 03/11/2024 10:27

Field ID: WHISKEY

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2474573	EPA 350.1 Rev. 2.0	Ammonia-N	0.007	U	mg N/L	P443068	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P442638	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004		mg N/L	P442737	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P442875	
2474577	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.007		mg N/L	P443068	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.68		mg N/L	P442870	
2474581	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.029		mg P/L	P442653	

Sample Location: 26.54335, -81.94011

Collection Date/Time: 03/11/2024 11:05

Field ID: CLEW09

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2474574	EPA 350.1 Rev. 2.0	Ammonia-N	0.014	I	mg N/L	P443068	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P442639	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009		mg N/L	P442737	
	EPA 365.1 Rev. 2.0	Total-P	0.041		mg P/L	P442876	
2474578	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.011		mg N/L	P443068	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	1.1		mg N/L	P442870	
2474582	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.024		mg P/L	P442653	

Sample Location: 26.52328, -82.00864

Collection Date/Time: 03/11/2024 11:35

Field ID: CLEW10

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2474575	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P443068	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.94		mg N/L	P442639	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.036		mg N/L	P442737	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P442876	
2474579	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P443068	
	dissolved						
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P442870	
	dissolved						
2474583	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.026		mg P/L	P442653	
	dissolved						

Ref. Method and Comment:

EPA 351.2 Rev. 2.0: The result was confirmed on 03/25/2024.

EPA 351.2 Rev. 2.0 dissolved: The result was confirmed on 03/25/2024.

Sample Location: 26.47219, -82.01621

Collection Date/Time: 03/11/2024 12:10

Field ID: CLEW11

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2474576	EPA 350.1 Rev. 2.0	Ammonia-N	0.044		mg N/L	P443066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.56		mg N/L	P442994	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.017		mg N/L	P443899	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P442852	
2474580	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.044		mg N/L	P443066	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.52		mg N/L	P443090	
2474584	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P442653	

Sample Location: 26.64467, -81.87899

Collection Date/Time: 03/11/2024 13:25

Field ID: CLEW07

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2474562	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P443203	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P443548	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.099		mg N/L	P442737	
	EPA 365.1 Rev. 2.0	Total-P	0.073		mg P/L	P443194	
2474567	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.011		mg N/L	P443203	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	1.0		mg N/L	P443090	
2474572	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.026		mg P/L	P442652	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442948

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443064

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443066

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443068

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443203

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443064

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443066

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443068

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443203

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442638

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442639

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442976

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442994

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443548

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

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P442870

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

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P443090

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442736

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442737

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443899

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442852

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442875

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442876

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443194

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442652

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442653

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442948

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443064

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443068

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443064

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443068

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.4		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442638

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442639

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442976

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442994

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443548

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.3		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P442870

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P443090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442736

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442737

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443899

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	94.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442852

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442875

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442876

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443194

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442652

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: P442653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.5		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474044	Ammonia-N	93.0	94.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474543	Ammonia-N	97.0	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474340	Ammonia-N	99.8	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474566	Ammonia-N	95.6	97.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476221	Ammonia-N	101	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474543	Ammonia-N	97.0	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474340	Ammonia-N	99.8	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474566	Ammonia-N	95.6	97.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476221	Ammonia-N	101	103	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442638

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474558	Kjeldahl Nitrogen	96.4	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442639

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474464	Kjeldahl Nitrogen	103	97.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475104	Kjeldahl Nitrogen	94.3	97.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476334	Kjeldahl Nitrogen	99.1	99.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474562	Kjeldahl Nitrogen	94.4	94.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P442870

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474566	Kjeldahl Nitrogen	97.8	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P443090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474580	Kjeldahl Nitrogen	104	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442736

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474522	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474561	NO2NO3-N	98.6	99.1	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443899

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2479120	NO2NO3-N	94.4	93.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474365	Total-P	94.0	94.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474560	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474617	Total-P	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443194

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476465	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442652

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474529	O-Phosphate-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474582	O-Phosphate-P	98.0	98.6	P/P	90 - 110

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474044	Ammonia-N	1.41	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474543	Ammonia-N	0.737	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474340	Ammonia-N	1.03	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474566	Ammonia-N	1.07	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476221	Ammonia-N	1.96	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474543	Ammonia-N	0.737	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474340	Ammonia-N	1.03	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474566	Ammonia-N	1.07	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P443203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476221	Ammonia-N	1.96	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442638

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474558	Kjeldahl Nitrogen	1.79	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442639

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474464	Kjeldahl Nitrogen	3.88	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475104	Kjeldahl Nitrogen	3.05	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476334	Kjeldahl Nitrogen	0.622	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474562	Kjeldahl Nitrogen	0.0385	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P442870

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474566	Kjeldahl Nitrogen	0.225	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P443090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474580	Kjeldahl Nitrogen	0.850	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442736

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474522	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474561	NO2NO3-N	0.384	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443899

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2479120	NO2NO3-N	1.38	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474365	Total-P	0.926	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474560	Total-P	0.567	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474617	Total-P	1.15	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476465	Total-P	0.416	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474529	O-Phosphate-P	0.0	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474582	O-Phosphate-P	0.490	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: A124699

Included Lab Sample IDs: 2474568, 2474569, 2474570, 2474571, 2474572, 2474581, 2474582, 2474583, 2474584

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	100	P/P	90 - 110
O-Phosphate-P	100	99.8	P/P	90 - 110
O-Phosphate-P	99.8	99.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124728

Included Lab Sample IDs: 2474558, 2474559, 2474560, 2474561, 2474562, 2474573, 2474574, 2474575

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124751

Included Lab Sample IDs: 2474558, 2474559, 2474560, 2474573, 2474574, 2474575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.3	96.4	P/P	90 - 110
Kjeldahl Nitrogen	96.4	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124794

Included Lab Sample IDs: 2474558, 2474559, 2474560, 2474561, 2474573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	102	P/P	90 - 110
Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124812

Included Lab Sample IDs: 2474574, 2474575, 2474576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.8	P/P	90 - 110
Total-P	99.8	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved

Run ID: A124817

Included Lab Sample IDs: 2474563, 2474564, 2474565, 2474566, 2474577, 2474578, 2474579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.2	95.8	P/P	90 - 110
Kjeldahl Nitrogen	99.7	96.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124820

Included Lab Sample IDs: 2474561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	97.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124871

Included Lab Sample IDs: 2474558, 2474559, 2474560, 2474573, 2474574, 2474575, 2474576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	98.0	P/P	90 - 110
Ammonia-N	98.3	98.1	P/P	90 - 110
Ammonia-N	98.5	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved

Run ID: A124871

Included Lab Sample IDs: 2474563, 2474564, 2474565, 2474566, 2474577, 2474578, 2474579, 2474580

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	98.0	P/P	90 - 110
Ammonia-N	98.3	98.1	P/P	90 - 110
Ammonia-N	98.5	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124898

Included Lab Sample IDs: 2474561, 2474576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.6	91.9	P/P	90 - 110
Kjeldahl Nitrogen	96.1	94.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124932

Included Lab Sample IDs: 2474562

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	98.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved

Run ID: A124932

Included Lab Sample IDs: 2474567

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124947

Included Lab Sample IDs: 2474562

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved

Run ID: A124972

Included Lab Sample IDs: 2474567, 2474580

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.6	101	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A125109
Included Lab Sample IDs: 2474562

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.0	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A125212
Included Lab Sample IDs: 2474576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.5	94.0	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	SMP	MS	
EPA 350.1 Rev. 2.0	Ammonia-N	94.8	93.0	94.4		1.41
	Ammonia-N	96.4	97.0	97.8		0.737
	Ammonia-N	95.6	99.8	101		1.03
	Ammonia-N	98.2	95.6	97.4		1.07
	Ammonia-N	94.4	101	103		1.96
EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	96.4	97.0	97.8		0.737
	Ammonia-N	95.6	99.8	101		1.03
	Ammonia-N	98.2	95.6	97.4		1.07
	Ammonia-N	94.4	101	103		1.96
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.9	96.4	99.5		1.79
	Kjeldahl Nitrogen	94.6	103	97.2		3.88
	Kjeldahl Nitrogen	96.7	94.3	97.9		3.05
	Kjeldahl Nitrogen	96.0	99.1	99.7		0.622
	Kjeldahl Nitrogen	98.3	94.4	94.5		0.0385
EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	97.1	97.8	97.4		0.225
	Kjeldahl Nitrogen	99.7	104	103		0.850
EPA 353.2 Rev. 2.0	NO2NO3-N	100	102	102		0.491
	NO2NO3-N	101	98.6	99.1		0.384
	NO2NO3-N	94.0	94.4	93.0		1.38
EPA 365.1 Rev. 2.0	Total-P	105	94.0	94.9		0.926
	Total-P	101	103	104		0.567
	Total-P	103	105	104		1.15
	Total-P	105	103	103		0.416
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	102	102		0.0
	O-Phosphate-P	97.5	98.0	98.6		0.490

Reference Method Descriptions

Method	Description	Associated Samples
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2474558, 2474559, 2474560, 2474561, 2474562, 2474573, 2474574, 2474575, 2474576
EPA 350.1 Rev. 2.0 dissolved	Ammonia, dissolved, in filtered, aqueous matrices as mg N/L	2474563, 2474564, 2474565, 2474566, 2474567, 2474577, 2474578, 2474579, 2474580
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2474558, 2474559, 2474560, 2474561, 2474562, 2474573, 2474574, 2474575, 2474576
EPA 351.2 Rev. 2.0 dissolved	Total Kjeldahl Nitrogen, dissolved, in filtered, aqueous matrices	2474563, 2474564, 2474565, 2474566, 2474567, 2474577, 2474578, 2474579, 2474580
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2474558, 2474559, 2474560, 2474561, 2474562, 2474573, 2474574, 2474575, 2474576
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2474558, 2474559, 2474560, 2474561, 2474562, 2474573, 2474574, 2474575, 2474576
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2474568, 2474569, 2474570, 2474571, 2474572, 2474581, 2474582, 2474583, 2474584

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 350.1 Rev. 2.0	03/12/2024			03/18/2024 13:41	Khloe J Berg	2474561
	03/12/2024			03/20/2024 11:55	Khloe J Berg	2474558
	03/12/2024			03/20/2024 11:58	Khloe J Berg	2474559
	03/12/2024			03/20/2024 12:41	Khloe J Berg	2474576
	03/12/2024			03/20/2024 13:25	Khloe J Berg	2474560
	03/12/2024			03/20/2024 13:27	Khloe J Berg	2474573
	03/12/2024			03/20/2024 13:30	Khloe J Berg	2474574
	03/12/2024			03/20/2024 13:33	Khloe J Berg	2474575
	03/12/2024			03/22/2024 11:39	Ping Hua	2474562
	03/12/2024			03/20/2024 11:57	Khloe J Berg	2474563
EPA 350.1 Rev. 2.0 dissolved	03/12/2024			03/20/2024 11:59	Khloe J Berg	2474564
	03/12/2024			03/20/2024 12:42	Khloe J Berg	2474580
	03/12/2024			03/20/2024 13:21	Khloe J Berg	2474566
	03/12/2024			03/20/2024 13:26	Khloe J Berg	2474565
	03/12/2024			03/20/2024 13:29	Khloe J Berg	2474577
	03/12/2024			03/20/2024 13:31	Khloe J Berg	2474578
	03/12/2024			03/20/2024 13:34	Khloe J Berg	2474579
	03/12/2024			03/22/2024 11:38	Ping Hua	2474567
	03/12/2024	03/13/2024 09:50	Ping Hua	03/14/2024 12:35	Robyn Blevins	2474558
	03/12/2024	03/13/2024 09:50	Ping Hua	03/14/2024 12:40	Robyn Blevins	2474573
EPA 351.2 Rev. 2.0	03/12/2024	03/13/2024 09:50	Ping Hua	03/14/2024 12:58	Robyn Blevins	2474559
	03/12/2024	03/13/2024 09:50	Ping Hua	03/14/2024 13:00	Robyn Blevins	2474560
	03/12/2024	03/13/2024 09:50	Ping Hua	03/14/2024 13:01	Robyn Blevins	2474574
	03/12/2024	03/13/2024 09:50	Ping Hua	03/14/2024 13:03	Robyn Blevins	2474575
	03/12/2024	03/20/2024 11:28	Robyn Blevins	03/21/2024 11:06	Robyn Blevins	2474561
	03/12/2024	03/20/2024 11:28	Robyn Blevins	03/21/2024 11:33	Robyn Blevins	2474576
	03/12/2024	03/29/2024 14:46	Simonne.V. Calhoun	04/02/2024 13:18	Robyn Blevins	2474562
	03/12/2024	03/15/2024 13:49	Simonne.V. Calhoun	03/18/2024 15:03	Robyn Blevins	2474563
	03/12/2024	03/15/2024 13:49	Simonne.V. Calhoun	03/18/2024 15:05	Robyn Blevins	2474564
	03/12/2024	03/15/2024 13:49	Simonne.V. Calhoun	03/18/2024 15:10	Robyn Blevins	2474565
EPA 351.2 Rev. 2.0 dissolved	03/12/2024	03/15/2024 13:49	Simonne.V. Calhoun	03/18/2024 15:11	Robyn Blevins	2474566
	03/12/2024	03/15/2024 13:49	Simonne.V. Calhoun	03/18/2024 15:16	Robyn Blevins	2474577
	03/12/2024	03/15/2024 13:49	Simonne.V. Calhoun	03/18/2024 15:18	Robyn Blevins	2474578
	03/12/2024	03/15/2024 13:49	Simonne.V. Calhoun	03/18/2024 15:19	Robyn Blevins	2474579
	03/12/2024	03/21/2024 11:05	Simonne.V. Calhoun	03/25/2024 11:44	Samantha L Bates	2474567
	03/12/2024	03/21/2024 11:05	Simonne.V. Calhoun	03/25/2024 11:46	Samantha L Bates	2474580
	03/12/2024			03/13/2024 13:02	Fadila Guebre	2474558
	03/12/2024			03/13/2024 13:03	Fadila Guebre	2474559
	03/12/2024			03/13/2024 13:04	Fadila Guebre	2474560
	03/12/2024			03/13/2024 13:12	Fadila Guebre	2474561
EPA 353.2 Rev. 2.0						

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 353.2 Rev. 2.0	03/12/2024			03/13/2024 13:17	Fadila Guebre	2474562
	03/12/2024			03/13/2024 13:19	Fadila Guebre	2474573
	03/12/2024			03/13/2024 13:20	Fadila Guebre	2474574
	03/12/2024			03/13/2024 13:21	Fadila Guebre	2474575
	03/12/2024			04/05/2024 13:46	Fadila Guebre	2474576
EPA 365.1 Rev. 2.0	03/12/2024	03/15/2024 14:01	Josephine W Gitau	03/16/2024 12:18	James L Waggeberby	2474560
	03/12/2024	03/15/2024 14:01	Josephine W Gitau	03/16/2024 12:26	James L Waggeberby	2474558
	03/12/2024	03/15/2024 14:01	Josephine W Gitau	03/16/2024 12:27	James L Waggeberby	2474559
	03/12/2024	03/15/2024 14:01	Josephine W Gitau	03/16/2024 12:28	James L Waggeberby	2474561
	03/12/2024	03/15/2024 14:01	Josephine W Gitau	03/16/2024 12:29	James L Waggeberby	2474573
	03/12/2024	03/15/2024 14:01	Josephine W Gitau	03/18/2024 11:16	James L Waggeberby	2474576
	03/12/2024	03/15/2024 14:01	Josephine W Gitau	03/18/2024 11:30	James L Waggeberby	2474574
	03/12/2024	03/15/2024 14:01	Josephine W Gitau	03/18/2024 11:31	James L Waggeberby	2474575
EPA 365.1 Rev. 2.0 dissolved	03/12/2024	03/22/2024 13:06	Josephine W Gitau	03/24/2024 14:15	James L Waggeberby	2474562
	03/12/2024			03/12/2024 14:57	Victoria Ocasio-Reed	2474569
	03/12/2024			03/12/2024 15:02	Victoria Ocasio-Reed	2474572
	03/12/2024			03/12/2024 15:07	Victoria Ocasio-Reed	2474582
	03/12/2024			03/12/2024 15:09	Victoria Ocasio-Reed	2474568
	03/12/2024			03/12/2024 15:10	Victoria Ocasio-Reed	2474570
	03/12/2024			03/12/2024 15:15	Victoria Ocasio-Reed	2474571
	03/12/2024			03/12/2024 15:16	Victoria Ocasio-Reed	2474581
	03/12/2024			03/12/2024 15:17	Victoria Ocasio-Reed	2474583
	03/12/2024			03/12/2024 15:18	Victoria Ocasio-Reed	2474584