

Chemical Analysis Report

NW-DIST-2024-06-05-02

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

Event Description: **Project Greenshores**
Request ID: **RQ-2024-05-13-21**
Customer: **NW-DIST**
Project ID: **DISTRICT**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda K Butler

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Certified by: Marek Topolski, Environmental Administrator

Date Certified: 24-JUN-2024 10:18



NON-CONFORMANCE REPORT INCLUDED

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: South of Primary Stormdrain

Collection Date/Time: 06/04/2024 10:42

Field ID: 4

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491500	DEP SOP: NU-094-1	Color (true)	18		PCU	P446079	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P446087	
	SM 2540 D-2015	TSS	4	I	mg/L	P446457	
2491511	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P446283	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28	I	mg N/L	P446613	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031		mg N/L	P446157	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P446179	

Sample Location: End of Chase Street

Collection Date/Time: 06/04/2024 10:56

Field ID: 5

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491501	DEP SOP: NU-094-1	Color (true)	19		PCU	P446079	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P446087	
	SM 2540 D-2015	TSS	4	I	mg/L	P446457	
2491512	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P446283	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32	I	mg N/L	P446613	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P446157	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P446179	

Sample Location: Midpoint Between Muscogee and Hawkshaw

Collection Date/Time: 06/04/2024 11:19

Field ID: 6

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491502	DEP SOP: NU-094-1	Color (true)	20		PCU	P446079	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P446087	
	SM 2540 D-2015	TSS	3	U	mg/L	P446458	
2491513	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P446283	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29	I	mg N/L	P446613	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P446157	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P446179	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Midpoint Between Bridge and Port Spoil Pond

Collection Date/Time: 06/04/2024 11:37

Field ID: 7

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491503	DEP SOP: NU-094-1	Color (true)	18		PCU	P446079	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P446088	
	SM 2540 D-2015	TSS	3	I	mg/L	P446458	
2491514	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P446283	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28	I	mg N/L	P446613	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P446157	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P446179	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: West of Primary Stormdrain

Collection Date/Time: 06/04/2024 11:07

Field ID: 8

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491504	DEP SOP: NU-094-1	Color (true)	18		PCU	P446079	
	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P446088	
	SM 2540 D-2015	TSS	4	I	mg/L	P446458	
2491515	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P446283	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26	I	mg N/L	P446613	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.032		mg N/L	P446157	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P446179	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: West of Hawkshaw Lagoon

Collection Date/Time: 06/04/2024 12:20

Field ID: 9

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491505	DEP SOP: NU-094-1	Color (true)	18		PCU	P446080	
	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P446088	
	SM 2540 D-2015	TSS	3	U	mg/L	P446458	
2491516	EPA 350.1 Rev. 2.0	Ammonia-N	0.038		mg N/L	P446284	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27	I	mg N/L	P446613	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.054		mg N/L	P446157	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P446179	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: South of Bayfront Stormdrain

Collection Date/Time: 06/04/2024 12:10

Field ID: 10

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491506	DEP SOP: NU-094-1	Color (true)	19		PCU	P446080	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P446088	
	SM 2540 D-2015	TSS	3	U	mg/L	P446458	
2491517	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P446284	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	I	mg N/L	P446613	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.037		mg N/L	P446157	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P446179	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Seville Marina Inlet

Collection Date/Time: 06/04/2024 12:02

Field ID: 11

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491507	DEP SOP: NU-094-1	Color (true)	19		PCU	P446080	
	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P446088	
	SM 2540 D-2015	TSS	3	I	mg/L	P446458	
2491518	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P446284	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	I	mg N/L	P446613	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P446157	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P446179	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: East of Port Spoil Pond

Collection Date/Time: 06/04/2024 11:43

Field ID: 12

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491508	DEP SOP: NU-094-1	Color (true)	18		PCU	P446080	
	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P446088	
	SM 2540 D-2015	TSS	10	IA	mg/L	P446458	
2491519	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P446284	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.31	I	mg N/L	P446613	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P446158	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P446180	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Hawkshaw Lagoon at Memorial Bridge

Collection Date/Time: 06/04/2024 12:49

Field ID: 13

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491509	DEP SOP: NU-094-1	Color (true)	20		PCU	P446080	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P446088	
	SM 2540 D-2015	TSS	4	I	mg/L	P446456	
2491520	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P446284	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.42	J	mg N/L	P446614	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P446158	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P446180	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: 150ft. South of Hawkshaw Lagoon East Stormdrain

Collection Date/Time: 06/04/2024 12:31

Field ID: 14

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491510	DEP SOP: NU-094-1	Color (true)	19		PCU	P446080	
	EPA 180.1 Rev. 2.0	Turbidity	3.1	A	NTU	P446088	
	SM 2540 D-2015	TSS	3	U	mg/L	P446458	
2491521	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P446284	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.44		mg N/L	P446614	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.062		mg N/L	P446158	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P446180	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Range Marker East of Bayou Texar

Collection Date/Time: 06/04/2024 10:17

Field ID: 1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491937	DEP SOP: NU-094-1	Color (true)	18	Y	PCU	P446146	
	EPA 180.1 Rev. 2.0	Turbidity	2.9	AY	NTU	P446160	
	SM 2540 D-2015	TSS	4	IY	mg/L	P446639	
2491940	EPA 350.1 Rev. 2.0	Ammonia-N	0.010	Y	mg N/L	P446279	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.44	Y	mg N/L	P446231	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018	Y	mg N/L	P446418	
	EPA 365.1 Rev. 2.0	Total-P	0.014	Y	mg P/L	P446294	

Ref. Method and Comment:
DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: Midpoint between bay bridge and Muscogee Wharf

Collection Date/Time: 06/04/2024 10:32

Field ID: 2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491938	DEP SOP: NU-094-1	Color (true)	19	Y	PCU	P446146	
	EPA 180.1 Rev. 2.0	Turbidity	2.1	Y	NTU	P446160	
	SM 2540 D-2015	TSS	3	UY	mg/L	P446639	
2491941	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	IY	mg N/L	P446279	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.47	Y	mg N/L	P446231	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	IY	mg N/L	P446418	
	EPA 365.1 Rev. 2.0	Total-P	0.015	Y	mg P/L	P446294	

Ref. Method and Comment:
DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: East end of primary stormdrain

Collection Date/Time: 06/04/2024 10:39

Field ID: 3

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2491939	DEP SOP: NU-094-1	Color (true)	19	AY	PCU	P446146	
	EPA 180.1 Rev. 2.0	Turbidity	2.0	Y	NTU	P446160	
	SM 2540 D-2015	TSS	3	UY	mg/L	P446639	
2491942	EPA 350.1 Rev. 2.0	Ammonia-N	0.01	Y	mg N/L	P446279	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40	IY	mg N/L	P446231	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.017	Y	mg N/L	P446418	
	EPA 365.1 Rev. 2.0	Total-P	0.015	Y	mg P/L	P446365	

Ref. Method and Comment:
DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Non-Conformance Report

NCR ID: 10517

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
NW-DIST-2024-06-05-02	TLH-2024-06-06-09	2491937	
NW-DIST-2024-06-05-02	TLH-2024-06-06-09	2491938	
NW-DIST-2024-06-05-02	TLH-2024-06-06-09	2491939	
NW-DIST-2024-06-05-02	TLH-2024-06-06-09	2491940	
NW-DIST-2024-06-05-02	TLH-2024-06-06-09	2491941	
NW-DIST-2024-06-05-02	TLH-2024-06-06-09	2491942	

NCR Type: SHIPPING/RECEIVING

NCR Category: Samples arrived late

Observation: Samples arrived late, samples received outside the acceptable temperature range.

Resolution: Samples will be qualified as appropriate.
Customer contacted, email correspondence attached to sample submittal forms.
Biology and Chemistry supervisors were notified by email.

Authorized by/Date: Kyle Klug 6/14/2024

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P446079

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P446080

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P446146

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446087

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446088

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446160

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446279

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446283

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446284

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: P446231

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446613

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446614

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446157

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446158

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446418

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446179

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446180

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446294

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: P446365

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

Reference Method: SM 2540 D-2015
Batch ID: P446456

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P446457

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P446458

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P446639

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P446079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.9		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P446080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.1		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P446146

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446087

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446088

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446160

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446279

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446283

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.2		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446231

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446613

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446614

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446157

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: P446158

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: P446418

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446179

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446180

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446294

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446365

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

Reference Method: SM 2540 D-2015
Batch ID: P446456

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.8		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P446457

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	103		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P446458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	106		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P446639

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	105		P	85 - 115

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446279

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491891	Ammonia-N	94.2	96.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491515	Ammonia-N	96.0	97.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491516	Ammonia-N	95.6	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446231

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491890	Kjeldahl Nitrogen	101	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446613

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491473	Kjeldahl Nitrogen	94.8	90.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446614

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491520	Kjeldahl Nitrogen	98.3	111	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446157

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2490861	NO2NO3-N	93.6	93.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491519	NO2NO3-N	96.6	97.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491733	NO2NO3-N	98.2	99.2	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491514	Total-P	101	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446180

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491519	Total-P	102	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491890	Total-P	94.2	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446365

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492439	Total-P	91.8	92.6	P/P	90 - 110

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P446079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491414	Color (true)	3.99	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P446080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491533	Color (true)	0.112	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P446146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491939	Color (true)	2.30	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491310	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491510	Turbidity	4.86	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491937	Turbidity	4.86	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446279

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491891	Ammonia-N	1.62	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491515	Ammonia-N	0.679	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491516	Ammonia-N	0.700	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446231

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491890	Kjeldahl Nitrogen	1.58	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446613

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491473	Kjeldahl Nitrogen	3.93	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446614

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491520	Kjeldahl Nitrogen	10.8	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446157

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2490861	NO2NO3-N	0.374	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446158

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491519	NO2NO3-N	0.482	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491733	NO2NO3-N	0.971	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491514	Total-P	1.68	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446180

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491519	Total-P	1.76	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491890	Total-P	1.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492439	Total-P	0.895	Spike	P	0 - 20

Reference Method: SM 2540 D-2015
Batch ID: P446457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491415	TSS	5.41	Sample	P	0 - 10

* 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: A126001

Included Lab Sample IDs: 2491500, 2491501, 2491502, 2491503, 2491504, 2491505, 2491506, 2491507, 2491508, 2491509, 2491510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.2	99.0	P/P	90 - 110
Color (true)	99.0	99.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A126005

Included Lab Sample IDs: 2491500, 2491501, 2491502, 2491503, 2491504, 2491505, 2491506, 2491507, 2491508, 2491509, 2491510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.0	P/P	95 - 105
Turbidity	98.0	98.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A126025

Included Lab Sample IDs: 2491937, 2491938, 2491939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A126032

Included Lab Sample IDs: 2491511, 2491512, 2491513, 2491514, 2491515, 2491516, 2491517, 2491518, 2491519, 2491520, 2491521

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A126034

Included Lab Sample IDs: 2491937, 2491938, 2491939

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	97.5	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A126070

Included Lab Sample IDs: 2491511, 2491512, 2491513, 2491514, 2491515, 2491516, 2491517, 2491518, 2491519, 2491520, 2491521

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.4	P/P	90 - 110
Ammonia-N	99.4	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A126071

Included Lab Sample IDs: 2491940, 2491941, 2491942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.3	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126073

Included Lab Sample IDs: 2491511, 2491512, 2491513, 2491514, 2491515, 2491516, 2491517, 2491518, 2491519, 2491520, 2491521

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.5	P/P	90 - 110
Total-P	98.8	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126090

Included Lab Sample IDs: 2491940, 2491941

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A126116

Included Lab Sample IDs: 2491940, 2491941, 2491942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	105	P/P	90 - 110
Kjeldahl Nitrogen	105	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A126122

Included Lab Sample IDs: 2491940, 2491941, 2491942

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126136

Included Lab Sample IDs: 2491942

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A126262

Included Lab Sample IDs: 2491511, 2491512, 2491513, 2491514, 2491515, 2491516, 2491517, 2491518, 2491519, 2491520, 2491521

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.4	97.1	P/P	90 - 110
Kjeldahl Nitrogen	97.1	95.3	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)	97.9			3.99	
	Color (true)	98.1			0.112	
	Color (true)	99.2			2.30	
EPA 180.1 Rev. 2.0	Turbidity	100			0.0	
	Turbidity	100			4.86	
	Turbidity	100			4.86	
EPA 350.1 Rev. 2.0	Ammonia-N	93.6	94.2	96.4		1.62
	Ammonia-N	95.4	96.0	97.0		0.679
	Ammonia-N	96.2	95.6	96.8		0.700
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.4	101	103		1.58
	Kjeldahl Nitrogen	104	94.8	90.7		3.93
	Kjeldahl Nitrogen	102	98.3	111		10.8
EPA 353.2 Rev. 2.0	NO2NO3-N	100	93.6	93.9		0.374
	NO2NO3-N	100	96.6	97.2		0.482
	NO2NO3-N	100	98.2	99.2		0.971
EPA 365.1 Rev. 2.0	Total-P	100	101	99.0		1.68
	Total-P	102	102	99.8		1.76
	Total-P	98.5	94.2	95.2		1.03
	Total-P	102	91.8	92.6		0.895
SM 2540 D-2015	TSS	96.8				
	TSS	103			5.41	
	TSS	106				
	TSS	105				

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2491500, 2491501, 2491502, 2491503, 2491504, 2491505, 2491506, 2491507, 2491508, 2491509, 2491510, 2491937, 2491938, 2491939
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2491500, 2491501, 2491502, 2491503, 2491504, 2491505, 2491506, 2491507, 2491508, 2491509, 2491510, 2491937, 2491938, 2491939
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2491511, 2491512, 2491513, 2491514, 2491515, 2491516, 2491517, 2491518, 2491519, 2491520, 2491521, 2491940, 2491941, 2491942
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2491511, 2491512, 2491513, 2491514, 2491515, 2491516, 2491517, 2491518, 2491519, 2491520, 2491521, 2491940, 2491941, 2491942
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2491511, 2491512, 2491513, 2491514, 2491515, 2491516, 2491517, 2491518, 2491519, 2491520, 2491521, 2491940, 2491941, 2491942
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2491511, 2491512, 2491513, 2491514, 2491515, 2491516, 2491517, 2491518, 2491519, 2491520, 2491521, 2491940, 2491941, 2491942
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2491500, 2491501, 2491502, 2491503, 2491504, 2491505, 2491506, 2491507, 2491508, 2491509, 2491510, 2491937, 2491938, 2491939

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	06/05/2024			06/05/2024 13:56	Jessica K Wilks	2491500
	06/05/2024			06/05/2024 13:57	Jessica K Wilks	2491501, 2491502
	06/05/2024			06/05/2024 13:58	Jessica K Wilks	2491503, 2491504
	06/05/2024			06/05/2024 14:01	Jessica K Wilks	2491505, 2491506
	06/05/2024			06/05/2024 14:02	Jessica K Wilks	2491507, 2491508
	06/05/2024			06/05/2024 14:03	Jessica K Wilks	2491509, 2491510
	06/06/2024			06/06/2024 10:05	Jessica K Wilks	2491937
	06/06/2024			06/06/2024 10:06	Jessica K Wilks	2491938
	06/06/2024			06/06/2024 10:07	Jessica K Wilks	2491939
EPA 180.1 Rev. 2.0	06/05/2024			06/05/2024 15:01	Jessica K Wilks	2491500, 2491501
	06/05/2024			06/05/2024 15:02	Jessica K Wilks	2491502
	06/05/2024			06/05/2024 15:07	Jessica K Wilks	2491503, 2491504
	06/05/2024			06/05/2024 15:08	Jessica K Wilks	2491505
	06/05/2024			06/05/2024 15:09	Jessica K Wilks	2491506, 2491507
	06/05/2024			06/05/2024 15:10	Jessica K Wilks	2491508, 2491509
	06/05/2024			06/05/2024 15:12	Jessica K Wilks	2491510
	06/06/2024			06/06/2024 09:49	Samantha L Bates	2491937
	06/06/2024			06/06/2024 09:50	Samantha L Bates	2491938
EPA 350.1 Rev. 2.0	06/06/2024			06/06/2024 09:53	Samantha L Bates	2491939
	06/05/2024			06/10/2024 11:26	Kenneth H Lee	2491515
	06/05/2024			06/10/2024 11:37	Kenneth H Lee	2491511
	06/05/2024			06/10/2024 11:38	Kenneth H Lee	2491512
	06/05/2024			06/10/2024 11:39	Kenneth H Lee	2491513
	06/05/2024			06/10/2024 11:41	Kenneth H Lee	2491514
	06/05/2024			06/10/2024 11:53	Kenneth H Lee	2491516
	06/05/2024			06/10/2024 11:57	Kenneth H Lee	2491517
	06/05/2024			06/10/2024 11:58	Kenneth H Lee	2491518
	06/05/2024			06/10/2024 11:59	Kenneth H Lee	2491519
	06/05/2024			06/10/2024 12:01	Kenneth H Lee	2491520
	06/05/2024			06/10/2024 12:02	Kenneth H Lee	2491521
	06/06/2024			06/10/2024 12:09	Khloe J Berg	2491940
	06/06/2024			06/10/2024 12:11	Khloe J Berg	2491941
	06/06/2024			06/10/2024 12:12	Khloe J Berg	2491942
EPA 351.2 Rev. 2.0	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 15:43	Samantha L Bates	2491511
	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 15:45	Samantha L Bates	2491512
	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 15:46	Samantha L Bates	2491513
	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 15:48	Samantha L Bates	2491514
	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 15:49	Samantha L Bates	2491515
	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 15:51	Samantha L Bates	2491516
	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 15:53	Samantha L Bates	2491517

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 351.2 Rev. 2.0	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 15:54	Samantha L Bates	2491518
	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 15:56	Samantha L Bates	2491519
	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 16:04	Samantha L Bates	2491520
	06/05/2024	06/18/2024 10:59	Robyn Blevins	06/19/2024 16:09	Samantha L Bates	2491521
	06/06/2024	06/10/2024 08:43	Simonne.V. Calhoun	06/12/2024 12:05	Robyn Blevins	2491940
	06/06/2024	06/10/2024 08:43	Simonne.V. Calhoun	06/12/2024 12:07	Robyn Blevins	2491941
	06/06/2024	06/10/2024 08:43	Simonne.V. Calhoun	06/12/2024 12:11	Robyn Blevins	2491942
	06/05/2024			06/06/2024 14:51	Fadila Guebre	2491511
	06/05/2024			06/06/2024 14:52	Fadila Guebre	2491512
EPA 353.2 Rev. 2.0	06/05/2024			06/06/2024 14:54	Fadila Guebre	2491513
	06/05/2024			06/06/2024 14:55	Fadila Guebre	2491514
	06/05/2024			06/06/2024 14:56	Fadila Guebre	2491515
	06/05/2024			06/06/2024 14:57	Fadila Guebre	2491516
	06/05/2024			06/06/2024 14:58	Fadila Guebre	2491517
	06/05/2024			06/06/2024 15:00	Fadila Guebre	2491518
	06/05/2024			06/06/2024 15:07	Fadila Guebre	2491519
	06/05/2024			06/06/2024 15:13	Fadila Guebre	2491520
	06/05/2024			06/06/2024 15:14	Fadila Guebre	2491521
	06/06/2024			06/12/2024 14:55	Fadila Guebre	2491940
	06/06/2024			06/12/2024 14:56	Fadila Guebre	2491941
	06/06/2024			06/12/2024 14:57	Fadila Guebre	2491942
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:31	James L Waggeberby	2491514
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:34	James L Waggeberby	2491511
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:35	James L Waggeberby	2491512
EPA 365.1 Rev. 2.0	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:36	James L Waggeberby	2491513
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:37	James L Waggeberby	2491515
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:38	James L Waggeberby	2491516
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:39	James L Waggeberby	2491517
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:47	James L Waggeberby	2491518
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:49	James L Waggeberby	2491519
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:50	James L Waggeberby	2491520
	06/05/2024	06/07/2024 14:35	Adam P Silver	06/10/2024 14:51	James L Waggeberby	2491521
	06/06/2024	06/10/2024 14:57	Adam P Silver	06/11/2024 13:53	Simonne.V. Calhoun	2491940
	06/06/2024	06/10/2024 14:57	Adam P Silver	06/11/2024 13:54	Simonne.V. Calhoun	2491941
	06/06/2024	06/12/2024 11:25	Adam P Silver	06/13/2024 11:56	Simonne.V. Calhoun	2491942
SM 2540 D-2015	06/05/2024			06/07/2024 15:37	Yijie Li	2491500, 2491501, 2491502, 2491503, 2491504, 2491505, 2491506, 2491507, 2491508, 2491509, 2491510
	06/06/2024			06/10/2024 14:37	Yijie Li	2491937, 2491938, 2491939