

Chemical Analysis Report

NE-DIST-2023-11-16-01

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

Event Description: **Ormond Boat and L.Eaton**
Request ID: **RQ-2023-11-27-24**
Customer: **NE-DIST**
Project ID: **SMP**

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Date Certified: 05-DEC-2023 11:20



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: UNNAMED BRANCH 05 MI ABOVE TOMOKA RIVER

Collection Date/Time: 11/15/2023 11:20

Field ID: G5NE0609

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451948	DEP SOP: NU-094-1	Color (true)	190		PCU	P437925	
	EPA 180.1 Rev. 2.0	Turbidity	1.2	A	NTU	P437928	
	EPA 300.0 Rev. 2.1	Chloride	4.9E+03		mg Cl/L	P438317	
		Sulfate	690		mg SO4/L	P438320	
	SM 2320 B-2011	Total Alkalinity	126		mg CaCO3/L	P438165	
	SM 2540 C-2015	TDS	8.10E+03		mg/L	P438345	
	SM 2540 D-2015	TSS	3	IA	mg/L	P438342	
	SM 4500-F- C-2011	Fluoride	0.34		mg F/L	P438167	
2451949	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P438429	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P438032	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.055		mg N/L	P438184	
	EPA 365.1 Rev. 2.0	Total-P	0.084		mg P/L	P438120	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P438155	

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: GROOVER BRANCH AT AIRPORT ROAD
BRIDGE**

Collection Date/Time: 11/15/2023 11:45

Field ID: G5NE0610

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451950	DEP SOP: NU-094-1	Color (true)	200		PCU	P437925	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P437928	
	EPA 300.0 Rev. 2.1	Chloride	34		mg Cl/L	P438317	
		Sulfate	8.4		mg SO4/L	P438320	
	SM 2320 B-2011	Total Alkalinity	30		mg CaCO3/L	P438164	
	SM 2540 C-2015	TDS	130		mg/L	P438345	
	SM 2540 D-2015	TSS	3	I	mg/L	P438341	
2451951	SM 4500-F- C-2011	Fluoride	0.039	I	mg F/L	P438166	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P438432	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P438169	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.074		mg N/L	P438252	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P438207	
2451960	SM 5310 B-2011	Organic Carbon	24		mg C/L	P438154	
	EPA 8321B	2,4-D	0.62		ug/L	P437880	
		Acesulfame K	0.10	U	ug/L	P437799	
		2,4,5-T	0.0040	U	ug/L	P437880	
		AMPA	0.10	U	ug/L	P437799	
		Acetaminophen	0.0080	U	ug/L	P437880	
		Acetamiprid	0.0020	U	ug/L	P437880	
		Endothall	0.25	U	ug/L	P437799	
		Glufosinate	0.10	U	ug/L	P437799	
		Glyphosate	0.16	I	ug/L	P437799	
		Afidopyropen	0.0020	U	ug/L	P437880	
		Sucralose	0.37		ug/L	P437799	
		Bentazon	0.0074		ug/L	P437880	MS
		Benzovindiflupyr	0.0020	U	ug/L	P437880	
		Carbamazepine	8.0E-04	U	ug/L	P437880	
		Clothianidin	0.0020	U	ug/L	P437880	
		Dinotefuran	0.0020	U	ug/L	P437880	
		Diuron	0.0020	U	ug/L	P437880	
		Fenuron	0.032	U	ug/L	P437880	
		Fluridone	0.0018	I	ug/L	P437880	
		Imazapyr	0.062		ug/L	P437880	
		Hydrocodone	0.0020	U	ug/L	P437880	
		Ibuprofen	0.080	U	ug/L	P437880	
		Imidacloprid	0.0024	I	ug/L	P437880	
		Linuron	0.0040	U	ug/L	P437880	
		Mandestrobin	0.0020	U	ug/L	P437880	
		MCP	0.0020	U	ug/L	P437880	
		Naproxen	0.0080	U	ug/L	P437880	
		Primidone	0.0040	U	ug/L	P437880	
		Pyraclostrobin	0.0020	U	ug/L	P437880	
		Silvex	0.0040	U	ug/L	P437880	

Field ID: G5NE0610

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451960	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P437880	
		Tolfenpyrad	0.0020	U	ug/L	P437880	
		Triclopyr	0.0040	U	ug/L	P437880	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: The matrix spike and LCS recoveries for afidopyropen could not be evaluated due to laboratory technical difficulties.

Sample Location: LAKE EATON CENTER

Collection Date/Time: 11/15/2023 13:10

Field ID: G1NE0954

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451952	DEP SOP: NU-094-1	Color (true)	330		PCU	P437925	
	EPA 180.1 Rev. 2.0	Turbidity	0.80	I	NTU	P437928	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P438317	
		Sulfate	11		mg SO4/L	P438320	
	SM 2320 B-2011	Total Alkalinity	38		mg CaCO3/L	P438164	
	SM 2540 C-2015	TDS	121		mg/L	P438345	
	SM 2540 D-2015	TSS	2	IA	mg/L	P438341	
	SM 4500-F- C-2011	Fluoride	0.066	I	mg F/L	P438166	
2451953	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P438433	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P438169	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018		mg N/L	P438252	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P438207	
	SM 5310 B-2011	Organic Carbon	33		mg C/L	P438154	

Ref. Method and Comment:

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

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P437925

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437928

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438429

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438432

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438433

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438032

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438184

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438252

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438120

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438207

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

Reference Method: EPA 8321B
Batch ID: P437799

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P437880

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P437880

Component	Result	Code	Units
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P438164

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2320 B-2011
Batch ID: P438165

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2015
Batch ID: P438345

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P438341

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P438342

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P438166

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P438167

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P438154

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2011
Batch ID: P438155

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P437925

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437928

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	92.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438432

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438433

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438032

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438184

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: P438252

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438120

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: P438207

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.7		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P437799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	109		P	40 - 150
AMPA	104		P	40 - 160
Endothall	108		P	40 - 160
Glufosinate	100		P	40 - 160
Glyphosate	101		P	40 - 160
Sucralose	99.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P437880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	105		P	40 - 150
2,4,5-T	91.0		P	40 - 150
Acetaminophen	95.2		P	30 - 150
Acetamiprid	95.8		P	40 - 150
Bentazon	66.4		P	30 - 150
Benzovindiflupyr	92.8		P	40 - 150
Carbamazepine	76.6		P	40 - 150
Clothianidin	97.7		P	40 - 150
Dinotefuran	99.6		P	40 - 150
Diuron	70.8		P	40 - 150
Fenuron	93.2		P	40 - 150
Fluridone	88.6		P	40 - 150
Hydrocodone	112		P	40 - 150
Ibuprofen	65.0		P	40 - 150
Imazapyr	91.6		P	40 - 150
Imidacloprid	94.8		P	40 - 150
Linuron	76.6		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P437880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mandestrobin	101		P	40 - 150
MCPD	96.4		P	40 - 150
Naproxen	60.7		P	40 - 150
Primidone	92.3		P	40 - 150
Pyraclostrobin	93.9		P	40 - 150
Silvex	87.1		P	40 - 150
Thiamethoxam	93.1		P	40 - 150
Tolfenpyrad	62.6		P	30 - 150
Triclopyr	105		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P438164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	92 - 105

Reference Method: SM 2320 B-2011

Batch ID: P438165

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.5		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P438345

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

Reference Method: SM 2540 D-2015

Batch ID: P438341

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.8		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P438342

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

Reference Method: SM 4500-F- C-2011

Batch ID: P438166

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P438167

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P438154

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P438155

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451931	Chloride	102		P	90 - 110
2451950	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451931	Sulfate	105		P	90 - 110
2451950	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451499	Ammonia-N	103	106	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438432

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451810	Ammonia-N	98.6	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452031	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438032

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2450283	Kjeldahl Nitrogen	109	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451951	Kjeldahl Nitrogen	100	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451500	NO2NO3-N	99.4	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451932	NO2NO3-N	103	100	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438120

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452154	Total-P	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451937	Total-P	101	95.2	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P437799

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451421	Acesulfame K	121	124	P/P	40 - 150
2451421	AMPA	97.9	97.4	P/P	40 - 160
2451421	Endothall	108	102	P/P	40 - 160
2451421	Glufosinate	98.7	99.3	P/P	40 - 160
2451421	Glyphosate	101	93.1	P/P	40 - 160
2451421	Sucralose	94.0	95.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P437880

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451421	2,4-D	89.5	103	P/P	40 - 150
2451421	2,4,5-T	84.6	89.0	P/P	40 - 150
2451421	Acetaminophen	108	106	P/P	30 - 150
2451421	Acetamiprid	44.1	41.6	P/P	40 - 150
2451421	Bentazon	23.3	24.0	F/F	30 - 150
2451421	Benzovindiflupyr	79.4	84.4	P/P	40 - 150
2451421	Carbamazepine	56.7	58.3	P/P	40 - 150
2451421	Clothianidin	76.0	81.0	P/P	40 - 150
2451421	Dinotefuran	67.7	70.7	P/P	40 - 150
2451421	Diuron	54.3	56.2	P/P	40 - 150
2451421	Fenuron	50.7	52.3	P/P	40 - 150
2451421	Fluridone	65.6	70.7	P/P	40 - 150
2451421	Hydrocodone	73.0	78.8	P/P	40 - 150
2451421	Ibuprofen	53.8	54.7	P/P	40 - 150
2451421	Imazapyr	87.4	90.6	P/P	40 - 150
2451421	Imidacloprid	101	106	P/P	40 - 150
2451421	Linuron	63.1	62.4	P/P	40 - 150
2451421	Mandestrobin	83.0	84.7	P/P	40 - 150
2451421	MCCP	83.5	90.4	P/P	40 - 150
2451421	Naproxen	79.7	70.7	P/P	40 - 150
2451421	Primidone	76.2	73.7	P/P	40 - 150
2451421	Pyraclostrobin	84.6	90.3	P/P	40 - 150
2451421	Silvex	88.6	90.1	P/P	40 - 150
2451421	Thiamethoxam	77.0	82.2	P/P	40 - 150
2451421	Tolfenpyrad	52.9	54.2	P/P	30 - 150
2451421	Triclopyr	82.5	87.2	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P438167

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452153	Fluoride	99.7	101	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P438154

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452031	Organic Carbon	97.8	99.4	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P438155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451949	Organic Carbon	85.3	87.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P437925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451931	Color (true)	2.48	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451948	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451931	Chloride	3.61	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451931	Sulfate	2.56	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451499	Ammonia-N	1.72	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451810	Ammonia-N	1.06	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452031	Ammonia-N	0.186	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438032

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2450283	Kjeldahl Nitrogen	5.47	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451951	Kjeldahl Nitrogen	0.884	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451500	NO2NO3-N	1.29	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451932	NO2NO3-N	2.39	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438120

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452154	Total-P	0.144	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451937	Total-P	5.27	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P437799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451421	Acesulfame K	1.98	Spike	P	0 - 30
2451421	AMPA	0.489	Spike	P	0 - 30
2451421	Endothall	5.95	Spike	P	0 - 30
2451421	Glufosinate	0.549	Spike	P	0 - 30
2451421	Glyphosate	7.98	Spike	P	0 - 30
2451421	Sucralose	1.26	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P437880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451421	2,4-D	13.8	Spike	P	0 - 30
2451421	2,4,5-T	5.15	Spike	P	0 - 30
2451421	Acetaminophen	2.31	Spike	P	0 - 30
2451421	Acetamiprid	5.73	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P437880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451421	Bentazon	2.98	Spike	P	0 - 30
2451421	Benzovindiflupyr	6.13	Spike	P	0 - 30
2451421	Carbamazepine	2.70	Spike	P	0 - 30
2451421	Clothianidin	6.39	Spike	P	0 - 30
2451421	Dinotefuran	4.43	Spike	P	0 - 30
2451421	Diuron	3.43	Spike	P	0 - 30
2451421	Fenuron	3.13	Spike	P	0 - 30
2451421	Fluridone	7.45	Spike	P	0 - 30
2451421	Hydrocodone	7.64	Spike	P	0 - 30
2451421	Ibuprofen	1.77	Spike	P	0 - 30
2451421	Imazapyr	3.10	Spike	P	0 - 30
2451421	Imidacloprid	4.86	Spike	P	0 - 30
2451421	Linuron	1.04	Spike	P	0 - 30
2451421	Mandestrobin	2.10	Spike	P	0 - 30
2451421	MCPP	7.95	Spike	P	0 - 30
2451421	Naproxen	11.9	Spike	P	0 - 30
2451421	Primidone	3.35	Spike	P	0 - 30
2451421	Pyraclostrobin	6.58	Spike	P	0 - 30
2451421	Silvex	1.73	Spike	P	0 - 30
2451421	Thiamethoxam	6.55	Spike	P	0 - 30
2451421	Tolfenpyrad	2.43	Spike	P	0 - 30
2451421	Triclopyr	5.52	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P438164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451859	Total Alkalinity	1.17	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P438165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452153	Total Alkalinity	1.40	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P438345

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451786	TDS	2.74	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438166

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451859	Fluoride	0.473	Spike	P	0 - 1.9

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P438167

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452153	Fluoride	0.986	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P438154

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452031	Organic Carbon	1.57	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P438155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451949	Organic Carbon	1.48	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2451960
Field Sample ID: G5NE0610

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	64.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	64.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	38.5	P	30 - 160
EPA 8321B	Diuron-d6	35.7	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.2	P	30 - 160
EPA 8321B	Primidone-d5	38.7	P	30 - 160
EPA 8321B	Sucralose-d6	125	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A122778

Included Lab Sample IDs: 2451948, 2451950, 2451952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122779

Included Lab Sample IDs: 2451948, 2451950, 2451952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A122799

Included Lab Sample IDs: 2451960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.8	102	P/P	60 - 160
Endothall	110	102	P/P	60 - 160
Glufosinate	101	87.1	P/P	60 - 160
Glyphosate	98.4	101	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122812

Included Lab Sample IDs: 2451960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	111	132	P/P	60 - 160
Sucralose	117	125	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A122876

Included Lab Sample IDs: 2451949, 2451951, 2451953

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	96.2	P/P	90 - 110
Organic Carbon	98.6	96.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A122884

Included Lab Sample IDs: 2451948, 2451950, 2451952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.3	99.9	P/P	90 - 110
Total Alkalinity	97.0	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122884

Included Lab Sample IDs: 2451948, 2451950, 2451952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	102	P/P	90 - 110
Fluoride	102	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122887

Included Lab Sample IDs: 2451949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122891

Included Lab Sample IDs: 2451949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122892

Included Lab Sample IDs: 2451949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.2	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122920

Included Lab Sample IDs: 2451951, 2451953

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122927

Included Lab Sample IDs: 2451951, 2451953

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122934

Included Lab Sample IDs: 2451960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	97.0	91.3	P/P	50 - 150
2,4,5-T	101	91.4	P/P	50 - 150
Acetaminophen	110	112	P/P	60 - 160
Acetamiprid	107	107	P/P	50 - 150
Afidopyropen	96.8	94.7	P/P	50 - 150
Bentazon	88.4	93.1	P/P	50 - 160
Benzovindiflupyr	107	104	P/P	50 - 150
Carbamazepine	106	107	P/P	60 - 150
Clothianidin	108	107	P/P	60 - 150
Dinotefuran	110	110	P/P	50 - 150
Diuron	110	115	P/P	60 - 160
Fenuron	105	105	P/P	60 - 150
Fluridone	107	106	P/P	60 - 160
Hydrocodone	113	115	P/P	60 - 150
Ibuprofen	92.2	94.7	P/P	50 - 160
Imazapyr	95.3	96.9	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122934
Included Lab Sample IDs: 2451960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	96.8	95.4	P/P	60 - 150
Linuron	92.1	98.3	P/P	60 - 150
Mandestrobin	110	109	P/P	50 - 150
MCPP	100	96.7	P/P	50 - 150
Naproxen	71.1	88.3	P/P	50 - 160
Primidone	102	92.8	P/P	60 - 150
Pyraclostrobin	116	108	P/P	60 - 150
Silvex	89.8	95.7	P/P	50 - 150
Thiamethoxam	108	109	P/P	50 - 150
Tolfenpyrad	99.0	101	P/P	60 - 150
Triclopyr	98.2	93.3	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122935
Included Lab Sample IDs: 2451951, 2451953

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.2	95.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122949
Included Lab Sample IDs: 2451948, 2451950, 2451952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	104	105	P/P	90 - 110
Sulfate	104	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A122988
Included Lab Sample IDs: 2451949, 2451951, 2451953

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	99.1	P/P	90 - 110
Ammonia-N	98.7	98.6	P/P	90 - 110
Ammonia-N	99.0	98.7	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)	99.9			2.48	
EPA 180.1 Rev. 2.0	Turbidity	104			0.0	
EPA 300.0 Rev. 2.1	Chloride	104	102	103	3.61	
	Sulfate	105	105	105	2.56	
EPA 350.1 Rev. 2.0	Ammonia-N	92.2	103	106		1.72
	Ammonia-N	96.0	98.6	100		1.06
	Ammonia-N	96.8	101	101		0.186
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	109	103		5.47
	Kjeldahl Nitrogen	107	100	98.8		0.884
EPA 353.2 Rev. 2.0	NO2NO3-N	100	99.4	101		1.29
	NO2NO3-N	99.0	103	100		2.39
EPA 365.1 Rev. 2.0	Total-P	105	105	104		0.144
	Total-P	97.7	101	95.2		5.27
EPA 8321B	2,4-D	105	89.5	103		13.8
	2,4,5-T	91.0	84.6	89.0		5.15
	Acesulfame K	109	121	124		1.98
	Acetaminophen	95.2	106	108		2.31
	Acetamiprid	95.8	44.1	41.6		5.73
	AMPA	104	97.9	97.4		0.489
	Bentazon	66.4	23.3	24.0		2.98
	Benzovindiflupyr	92.8	79.4	84.4		6.13
	Carbamazepine	76.6	56.7	58.3		2.70
	Clothianidin	97.7	76.0	81.0		6.39
	Dinotefuran	99.6	67.7	70.7		4.43
	Diuron	70.8	54.3	56.2		3.43
	Endothall	108	108	102		5.95
	Fenuron	93.2	50.7	52.3		3.13
	Fluridone	88.6	65.6	70.7		7.45
	Glufosinate	100	98.7	99.3		0.549
	Glyphosate	101	101	93.1		7.98
	Hydrocodone	112	73.0	78.8		7.64
	Ibuprofen	65.0	53.8	54.7		1.77
	Imazapyr	91.6	87.4	90.6		3.10
	Imidacloprid	94.8	101	106		4.86
	Linuron	76.6	63.1	62.4		1.04
	Mandestrobin	101	83.0	84.7		2.10
	MCPP	96.4	83.5	90.4		7.95
	Naproxen	60.7	79.7	70.7		11.9
	Primidone	92.3	76.2	73.7		3.35
	Pyraclostrobin	93.9	84.6	90.3		6.58
	Silvex	87.1	88.6	90.1		1.73
	Sucralose	99.0	94.0	95.6		1.26
	Thiamethoxam	93.1	77.0	82.2		6.55
	Tolfenpyrad	62.6	52.9	54.2		2.43
	Triclopyr	105	82.5	87.2		5.52
SM 2320 B-2011	Total Alkalinity	100			1.17	
	Total Alkalinity	98.5			1.40	
SM 2540 C-2015	TDS	96.8			2.74	
SM 2540 D-2015	TSS	92.8				
	TSS	105				
SM 4500-F- C-2011	Fluoride	98.7				0.473
	Fluoride	98.7	99.7	101		0.986
SM 5310 B-2011	Organic Carbon	95.0	97.8	99.4		1.57
	Organic Carbon	96.4	85.3	87.3		1.48

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2451948, 2451950, 2451952
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2451948, 2451950, 2451952
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2451948, 2451950, 2451952
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2451948, 2451950, 2451952
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2451949, 2451951, 2451953
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2451949, 2451951, 2451953
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2451949, 2451951, 2451953
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2451949, 2451951, 2451953
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2451960
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2451948, 2451950, 2451952
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2451948, 2451950, 2451952
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2451948, 2451950, 2451952
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2451948, 2451950, 2451952
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2451949, 2451951, 2451953

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	11/16/2023			11/16/2023 15:40	Anna M. Plaviak	2451948, 2451950
	11/16/2023			11/16/2023 15:41	Anna M. Plaviak	2451952
EPA 180.1 Rev. 2.0	11/16/2023			11/16/2023 13:49	Khloe J Berg	2451948
	11/16/2023			11/16/2023 13:51	Khloe J Berg	2451950, 2451952
EPA 300.0 Rev. 2.1	11/16/2023			11/28/2023 04:46	James L Waggeberby	2451950
	11/16/2023			11/28/2023 06:16	James L Waggeberby	2451948
	11/16/2023			11/28/2023 06:31	James L Waggeberby	2451952
EPA 350.1 Rev. 2.0	11/16/2023			12/01/2023 12:43	Khloe J Berg	2451949
	11/16/2023			12/01/2023 14:07	Khloe J Berg	2451951
	11/16/2023			12/01/2023 14:19	Khloe J Berg	2451953
	11/16/2023			11/27/2023 13:31	Ping Hua	2451949
EPA 351.2 Rev. 2.0	11/16/2023	11/20/2023 21:15	Simonne.V. Calhoun	11/29/2023 11:39	Ping Hua	2451951
	11/16/2023	11/27/2023 13:33	Simonne.V. Calhoun	11/29/2023 11:44	Ping Hua	2451953
	11/16/2023	11/27/2023 13:33	Simonne.V. Calhoun	11/27/2023 13:17	Fadila Guebre	2451949
EPA 353.2 Rev. 2.0	11/16/2023			11/28/2023 12:35	Fadila Guebre	2451951
	11/16/2023			11/28/2023 12:36	Fadila Guebre	2451953
	11/16/2023			11/27/2023 12:22	Chandler E Cox	2451949
EPA 365.1 Rev. 2.0	11/16/2023	11/21/2023 12:58	Adam P Silver	11/29/2023 10:21	James L Waggeberby	2451951
	11/16/2023	11/28/2023 10:59	Adam P Silver	11/29/2023 10:22	James L Waggeberby	2451953
	11/16/2023	11/28/2023 10:59	Adam P Silver	11/16/2023 17:20	Hana Lee	2451960
EPA 8321B	11/16/2023	11/16/2023 12:00	Tae K Lee	11/17/2023 10:53	Hana Lee	2451960
	11/16/2023	11/16/2023 12:00	Tae K Lee	11/28/2023 19:44	Juyoung Kim	2451960
	11/16/2023	11/20/2023 09:00	Hoor Shaik	11/21/2023 20:30	Chandler E Cox	2451950
SM 2320 B-2011	11/16/2023			11/21/2023 20:43	Chandler E Cox	2451952
	11/16/2023			11/22/2023 00:55	Chandler E Cox	2451948
	11/16/2023			11/20/2023 15:30	Yijie Li	2451948, 2451950, 2451952
SM 2540 C-2015	11/16/2023			11/20/2023 15:30	Yijie Li	2451948, 2451950, 2451952
SM 4500-F- C-2011	11/16/2023			11/21/2023 20:30	Chandler E Cox	2451950
	11/16/2023			11/21/2023 20:43	Chandler E Cox	2451952
	11/16/2023			11/21/2023 23:02	Chandler E Cox	2451948
	11/16/2023			11/21/2023 19:35	Kenneth H Lee	2451951
SM 5310 B-2011	11/16/2023			11/21/2023 19:52	Kenneth H Lee	2451953
	11/16/2023			11/22/2023 00:08	Kenneth H Lee	2451949