

Chemical Analysis Report

NE-DIST-2023-05-10-02

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

Event Description: **Ormond Boat and L.Eaton**
Request ID: **RQ-2023-05-08-21**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 30-MAY-2023 14:01



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: LAKE EATON CENTER

Collection Date/Time: 05/09/2023 10:30

Field ID: G1NE0954

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408314	DEP SOP: NU-094-1	Color (true)	150		PCU	P429681	
	EPA 180.1 Rev. 2.0	Turbidity	5.8		NTU	P429688	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P429795	
		Sulfate	20		mg SO4/L	P429797	
	SM 2320 B-2011	Total Alkalinity	59		mg CaCO3/L	P430157	
	SM 2540 C-2015	TDS	140		mg/L	P430183	
	SM 2540 D-2015	TSS	6	I	mg/L	P430027	
	SM 4500-F- C-2011	Fluoride	0.076	I	mg F/L	P429887	
2408315	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P429928	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P429954	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429984	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P429802	
	SM 5310 B-2011	Organic Carbon	21		mg C/L	P429896	

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: 05/09/2023 12:40

Field ID: G5NE0610

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408312	DEP SOP: NU-094-1	Color (true)	130		PCU	P429681	
	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P429688	
	EPA 300.0 Rev. 2.1	Chloride	41		mg Cl/L	P429795	
		Sulfate	9.7		mg SO4/L	P429797	
	SM 2320 B-2011	Total Alkalinity	51	A	mg CaCO3/L	P430157	
	SM 2540 C-2015	TDS	191		mg/L	P430183	
	SM 2540 D-2015	TSS	2	U	mg/L	P430027	
	SM 4500-F- C-2011	Fluoride	0.045	I	mg F/L	P429887	
2408313	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P429928	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P429952	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.089		mg N/L	P429984	
	EPA 365.1 Rev. 2.0	Total-P	0.047		mg P/L	P429802	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P429854	
2408327	EPA 8321B	2,4-D	0.0027	I	ug/L	P429749	
		Acesulfame K	0.10	U	ug/L	P429732	
		2,4,5-T	0.0040	U	ug/L	P429749	
		AMPA	0.10	U	ug/L	P429732	
		Acetaminophen	0.0080	U	ug/L	P429749	
		Acetamiprid	0.0020	U	ug/L	P429749	
		Endothall	0.25	U	ug/L	P429732	
		Glufosinate	0.10	U	ug/L	P429732	
		Glyphosate	0.10	U	ug/L	P429732	
		Afidopyropen	0.0020	U	ug/L	P429749	
		Bentazon	0.16		ug/L	P429749	
		Sucralose	0.46		ug/L	P429732	
		Benzovindiflupyr	0.0020	U	ug/L	P429749	
		Carbamazepine	8.0E-04	U	ug/L	P429749	
		Clothianidin	0.0020	U	ug/L	P429749	
		Dinotefuran	0.0020	U	ug/L	P429749	
		Diuron	0.0020	U	ug/L	P429749	
		Fenuron	0.032	U	ug/L	P429749	
		Fluridone	0.0058		ug/L	P429749	
		Imazapyr	0.10		ug/L	P429749	
		Hydrocodone	0.0020	U	ug/L	P429749	
		Ibuprofen	0.080	U	ug/L	P429749	
		Imidacloprid	0.016		ug/L	P429749	
		Linuron	0.0040	U	ug/L	P429749	
		Mandestrobin	0.0020	U	ug/L	P429749	
		MCP	0.0020	U	ug/L	P429749	
		Naproxen	0.0080	U	ug/L	P429749	
		Primidone	0.0040	U	ug/L	P429749	
		Pyraclostrobin	0.0020	U	ug/L	P429749	
		Silvex	0.0040	U	ug/L	P429749	

Field ID: G5NE0610

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408327	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P429749	
		Tolfenpyrad	0.0020	U	ug/L	P429749	
		Triclopyr	0.0040	U	ug/L	P429749	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: UNNAMED BRANCH 05 MI ABOVE TOMOKA RIVER

Collection Date/Time: 05/09/2023 13:15

Field ID: G5NE0609

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408309	DEP SOP: NU-094-1	Color (true)	70		PCU	P429684	
	EPA 180.1 Rev. 2.0	Turbidity	5.4	A	NTU	P429688	
	EPA 300.0 Rev. 2.1	Chloride	5.5E+03		mg Cl/L	P429795	
		Sulfate	770		mg SO4/L	P429797	
	SM 2320 B-2011	Total Alkalinity	153		mg CaCO3/L	P430119	
	SM 2540 C-2015	TDS	9.56E+03		mg/L	P430183	
	SM 2540 D-2015	TSS	6	I	mg/L	P430030	
	SM 4500-F- C-2011	Fluoride	0.40		mg F/L	P429888	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P429737	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P429953	
2408311	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P430161	
	EPA 365.1 Rev. 2.0	Total-P	0.081		mg P/L	P429801	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P430151	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P429681

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P429684

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429688

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429795

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429797

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429737

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429928

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429952

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429953

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429954

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429984

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430161

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429801

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429802

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

Reference Method: EPA 8321B
Batch ID: P429732

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: P429749

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P429749

Component	Result	Code	Units
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
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: P430119

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

Reference Method: SM 2320 B-2011

Batch ID: P430157

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

Reference Method: SM 2540 C-2015

Batch ID: P430183

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P430027

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P430030

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P429887

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P429888

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P429854

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

Reference Method: SM 5310 B-2011
Batch ID: P429896

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

Reference Method: SM 5310 B-2011
Batch ID: P430151

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: P429681

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P429684

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429688

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429795

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429797

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429737

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429928

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429952

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429953

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429954

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429984

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430161

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429801

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: P429802

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

Reference Method: EPA 8321B
Batch ID: P429732

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 150
AMPA	112		P	40 - 150
Endothall	80.5		P	40 - 150
Glufosinate	97.6		P	40 - 150
Glyphosate	121		P	40 - 150
Sucralose	87.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429749

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	85.1		P	40 - 150
2,4,5-T	90.2		P	40 - 150
Acetaminophen	80.4		P	30 - 150
Acetamiprid	82.4		P	40 - 150
Afidopyropen	70.1		P	30 - 150
Bentazon	136		P	30 - 150
Benzovindiflupyr	89.8		P	40 - 150
Carbamazepine	88.3		P	40 - 150
Clothianidin	87.7		P	40 - 150
Dinotefuran	95.4		P	40 - 150
Diuron	82.1		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P429749

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenuron	88.7		P	40 - 150
Fluridone	90.8		P	40 - 150
Hydrocodone	91.3		P	40 - 150
Ibuprofen	75.1		P	40 - 150
Imazapyr	87.8		P	40 - 150
Imidacloprid	86.6		P	40 - 150
Linuron	80.8		P	40 - 150
Mandestrobin	91.4		P	40 - 150
MCPP	90.8		P	40 - 150
Naproxen	81.6		P	40 - 150
Primidone	83.5		P	40 - 150
Pyraclostrobin	82.1		P	40 - 150
Silvex	105		P	40 - 150
Thiamethoxam	86.1		P	40 - 150
Tolfenpyrad	60.7		P	30 - 150
Triclopyr	83.0		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P430119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.0		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P430157

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.2		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P430183

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

Reference Method: SM 2540 D-2015
Batch ID: P430027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.9		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P430030

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	97.4		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P429887

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P429888

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P429854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.5		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P429896

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.7		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P430151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429795

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408147	Chloride	98.7		P	90 - 110
2408294	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429797

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408147	Sulfate	97.6		P	90 - 110
2408294	Sulfate	98.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407586	Ammonia-N	104	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408313	Ammonia-N	99.8	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408313	Kjeldahl Nitrogen	98.4	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408211	Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408374	Kjeldahl Nitrogen	106	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429984

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408313	NO2NO3-N	100	99.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430161

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408311	NO2NO3-N	100	98.3	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429801

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408209	Total-P	94.0	93.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408225	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P429732

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407444	Acesulfame K	136	142	P/P	40 - 150
2407444	AMPA	91.5	87.2	P/P	40 - 150
2407444	Endothall	83.9	80.7	P/P	40 - 150
2407444	Glufosinate	97.6	95.3	P/P	40 - 150
2407444	Glyphosate	123	117	P/P	40 - 150
2407444	Sucralose	97.7	83.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429749

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408093	2,4-D	116	102	P/P	40 - 150
2408093	2,4,5-T	115	113	P/P	40 - 150
2408093	Acetaminophen	96.3	95.4	P/P	30 - 150
2408093	Acetamiprid	72.8	80.5	P/P	40 - 150
2408093	Afidopyropen	73.9	64.4	P/P	30 - 150
2408093	Benzovindiflupyr	91.0	89.7	P/P	40 - 150
2408093	Carbamazepine	83.9	86.2	P/P	40 - 150
2408093	Clothianidin	112	111	P/P	40 - 150
2408093	Dinotefuran	108	109	P/P	40 - 150
2408093	Diuron	69.1	69.9	P/P	40 - 150
2408093	Fenuron	71.8	71.5	P/P	40 - 150
2408093	Hydrocodone	85.5	83.3	P/P	40 - 150
2408093	Ibuprofen	73.2	68.8	P/P	40 - 150
2408093	Imidacloprid	136	137	P/P	40 - 150
2408093	Linuron	71.5	75.4	P/P	40 - 150
2408093	Mandestrobin	80.4	87.2	P/P	40 - 150
2408093	MCPP	122	132	P/P	40 - 150
2408093	Naproxen	106	98.5	P/P	40 - 150
2408093	Primidone	102	89.8	P/P	40 - 150
2408093	Pyraclostrobin	85.1	84.7	P/P	40 - 150
2408093	Silvex	131	142	P/P	40 - 150
2408093	Thiamethoxam	122	119	P/P	40 - 150
2408093	Tolfenpyrad	57.4	58.9	P/P	30 - 150
2408093	Triclopyr	103	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P429887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P429887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408651	Fluoride	103	103	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P429888

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405381	Fluoride	104	105	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P429854

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408155	Organic Carbon	94.2	96.2	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P429896

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408608	Organic Carbon	97.6	97.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P430151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410513	Organic Carbon	91.2	92.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P429681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408073	Color (true)	1.12	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P429684

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408075	Color (true)	0.836	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429688

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408309	Turbidity	3.52	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408147	Chloride	0.265	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408147	Sulfate	0.218	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407586	Ammonia-N	0.810	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408313	Ammonia-N	1.46	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408313	Kjeldahl Nitrogen	6.12	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408211	Kjeldahl Nitrogen	0.189	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408374	Kjeldahl Nitrogen	0.773	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408313	NO2NO3-N	0.347	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408311	NO2NO3-N	2.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429801

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408209	Total-P	0.792	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408225	Total-P	0.234	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P429732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407444	Acesulfame K	3.91	Spike	P	0 - 30
2407444	AMPA	4.83	Spike	P	0 - 30
2407444	Endothall	3.84	Spike	P	0 - 30
2407444	Glufosinate	2.42	Spike	P	0 - 30
2407444	Glyphosate	5.08	Spike	P	0 - 30
2407444	Sucralose	13.6	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P429749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408093	2,4-D	11.5	Spike	P	0 - 30
2408093	2,4,5-T	2.08	Spike	P	0 - 30
2408093	Acetaminophen	0.892	Spike	P	0 - 30
2408093	Acetamiprid	10.1	Spike	P	0 - 30
2408093	Afidopyropen	13.8	Spike	P	0 - 30
2408093	Bentazon	20.8	Spike	P	0 - 30
2408093	Benzovindiflupyr	1.37	Spike	P	0 - 30
2408093	Carbamazepine	2.49	Spike	P	0 - 30
2408093	Clothianidin	1.28	Spike	P	0 - 30
2408093	Dinotefuran	1.20	Spike	P	0 - 30
2408093	Diuron	0.757	Spike	P	0 - 30
2408093	Fenuron	0.429	Spike	P	0 - 30
2408093	Fluridone	2.44	Spike	P	0 - 30
2408093	Hydrocodone	2.58	Spike	P	0 - 30
2408093	Ibuprofen	6.25	Spike	P	0 - 30
2408093	Imazapyr	1.43	Spike	P	0 - 30
2408093	Imidacloprid	0.599	Spike	P	0 - 30
2408093	Linuron	5.30	Spike	P	0 - 30
2408093	Mandestrobin	8.09	Spike	P	0 - 30
2408093	MCPP	7.65	Spike	P	0 - 30
2408093	Naproxen	7.29	Spike	P	0 - 30
2408093	Primidone	12.4	Spike	P	0 - 30
2408093	Pyraclostrobin	0.495	Spike	P	0 - 30
2408093	Silvex	7.88	Spike	P	0 - 30
2408093	Thiamethoxam	2.85	Spike	P	0 - 30
2408093	Tolfenpyrad	2.53	Spike	P	0 - 30
2408093	Triclopyr	0.246	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P430119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407776	Total Alkalinity	0.414	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011

Batch ID: P430157

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408312	Total Alkalinity	1.67	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P430183

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408073	TDS	7.07	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P429887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408651	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P429888

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405381	Fluoride	0.531	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P429854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408155	Organic Carbon	1.90	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P429896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408608	Organic Carbon	0.412	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P430151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410513	Organic Carbon	0.768	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2408327

Field Sample ID: G5NE0610

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	107	P	30 - 160
EPA 8321B	Acetaminophen-d4	94.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.7	P	30 - 160
EPA 8321B	Diuron-d6	56.9	P	30 - 160
EPA 8321B	Endothall-d6	97.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	88.7	P	30 - 160
EPA 8321B	Primidone-d5	83.6	P	30 - 160
EPA 8321B	Sucralose-d6	123	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A119070

Included Lab Sample IDs: 2408309, 2408312, 2408314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	99.3	99.6	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A119072

Included Lab Sample IDs: 2408312, 2408314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	90 - 110
Color (true)	103	103	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A119073

Included Lab Sample IDs: 2408309

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.7	98.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119076

Included Lab Sample IDs: 2408309, 2408312, 2408314

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: EPA 350.1 Rev. 2.0

Run ID: A119099

Included Lab Sample IDs: 2408311

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	99.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A119156

Included Lab Sample IDs: 2408313

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	96.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119172

Included Lab Sample IDs: 2408311, 2408313, 2408315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.2	97.2	P/P	90 - 110
Total-P	97.5	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A119173
Included Lab Sample IDs: 2408327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.0	89.8	P/P	50 - 150
2,4,5-T	119	107	P/P	50 - 150
Acetaminophen	96.2	89.7	P/P	60 - 160
Acetamiprid	106	108	P/P	50 - 150
Afidopyropen	96.3	79.4	P/P	50 - 150
Bentazon	119	112	P/P	50 - 160
Benzovindiflupyr	106	108	P/P	50 - 150
Carbamazepine	112	110	P/P	60 - 150
Clothianidin	96.1	104	P/P	60 - 150
Dinotefuran	108	107	P/P	50 - 150
Diuron	102	110	P/P	60 - 160
Fenuron	104	109	P/P	60 - 150
Fluridone	124	110	P/P	60 - 160
Hydrocodone	106	108	P/P	60 - 150
Ibuprofen	88.5	110	P/P	50 - 160
Imazapyr	99.6	94.1	P/P	50 - 150
Imidacloprid	98.9	101	P/P	60 - 150
Linuron	104	109	P/P	60 - 150
Mandestrobin	102	109	P/P	50 - 150
MCPP	82.5	107	P/P	50 - 150
Naproxen	77.6	102	P/P	50 - 160
Primidone	94.6	91.4	P/P	60 - 150
Pyraclostrobin	110	107	P/P	60 - 150
Silvex	90.9	104	P/P	50 - 150
Thiamethoxam	105	103	P/P	50 - 150
Tolfenpyrad	102	98.4	P/P	60 - 150
Triclopyr	92.4	102	P/P	50 - 150

Reference Method: SM 4500-F- C-2011
Run ID: A119179
Included Lab Sample IDs: 2408309, 2408312, 2408314

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

Reference Method: SM 5310 B-2011
Run ID: A119185
Included Lab Sample IDs: 2408315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	96.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119190
Included Lab Sample IDs: 2408327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	110	115	P/P	60 - 160
Endothall	80.8	82.5	P/P	60 - 160
Glufosinate	97.0	105	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A119190
Included Lab Sample IDs: 2408327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	108	127	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A119191
Included Lab Sample IDs: 2408327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	101	P/P	60 - 160
Sucralose	110	115	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119199
Included Lab Sample IDs: 2408313, 2408315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	98.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119221
Included Lab Sample IDs: 2408313, 2408315

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119245
Included Lab Sample IDs: 2408311, 2408313, 2408315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	99.2	P/P	90 - 110
Kjeldahl Nitrogen	99.2	99.9	P/P	90 - 110
Kjeldahl Nitrogen	99.9	102	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A119276
Included Lab Sample IDs: 2408309

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.7	100	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A119300
Included Lab Sample IDs: 2408311

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.4	92.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A119302

Included Lab Sample IDs: 2408312, 2408314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.6	98.1	P/P	90 - 110
Total Alkalinity	98.1	97.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A119305

Included Lab Sample IDs: 2408311

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

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	100			1.12	
	Color (true)	98.1			0.836	
EPA 180.1 Rev. 2.0	Turbidity	97.9			3.52	
EPA 300.0 Rev. 2.1	Chloride	99.3	98.7	97.9	0.265	
	Sulfate	97.9	97.6	98.2	0.218	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	104	105		0.810
	Ammonia-N	97.4	99.8	102		1.46
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	98.4	107		6.12
	Kjeldahl Nitrogen	96.3	101	102		0.189
	Kjeldahl Nitrogen	99.0	106	105		0.773
EPA 353.2 Rev. 2.0	NO2NO3-N	102	100	99.7		0.347
	NO2NO3-N	101	100	98.3		2.01
EPA 365.1 Rev. 2.0	Total-P	105	94.0	93.2		0.792
	Total-P	103	104	104		0.234
EPA 8321B	2,4-D	85.1	116	102		11.5
	2,4,5-T	90.2	115	113		2.08
	Acesulfame K	102	136	142		3.91
	Acetaminophen	80.4	96.3	95.4		0.892
	Acetamiprid	82.4	72.8	80.5		10.1
	Afidopyropen	70.1	73.9	64.4		13.8
	AMPA	112	91.5	87.2		4.83
	Bentazon	136				20.8
	Benzovindiflupyr	89.8	91.0	89.7		1.37
	Carbamazepine	88.3	83.9	86.2		2.49
	Clothianidin	87.7	112	111		1.28
	Dinotefuran	95.4	108	109		1.20
	Diuron	82.1	69.1	69.9		0.757
	Endothall	80.5	83.9	80.7		3.84
	Fenuron	88.7	71.8	71.5		0.429
	Fluridone	90.8				2.44
	Glufosinate	97.6	97.6	95.3		2.42
	Glyphosate	121	123	117		5.08
	Hydrocodone	91.3	85.5	83.3		2.58
	Ibuprofen	75.1	73.2	68.8		6.25
	Imazapyr	87.8				1.43
	Imidacloprid	86.6	136	137		0.599
	Linuron	80.8	71.5	75.4		5.30
	Mandestrobin	91.4	80.4	87.2		8.09
	MCPP	90.8	122	132		7.65
	Naproxen	81.6	106	98.5		7.29
	Primidone	83.5	102	89.8		12.4
	Pyraclostrobin	82.1	85.1	84.7		0.495
	Silvex	105	131	142		7.88
	Sucralose	87.9	97.7	83.9		13.6
	Thiamethoxam	86.1	122	119		2.85
	Tolfenpyrad	60.7	57.4	58.9		2.53
	Triclopyr	83.0	103	103		0.246
SM 2320 B-2011	Total Alkalinity	99.0			0.414	
	Total Alkalinity	98.2			1.67	
SM 2540 C-2015	TDS	105			7.07	
SM 2540 D-2015	TSS	95.9				
	TSS	97.4				
SM 4500-F- C-2011	Fluoride	100	103	103		0.0
	Fluoride	100	104	105		0.531

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
SM 5310 B-2011	Organic Carbon	94.5	94.2	96.2		1.90
	Organic Carbon	96.7	97.6	97.0		0.412
	Organic Carbon	98.4	91.2	92.2		0.768

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2408309, 2408312, 2408314
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2408309, 2408312, 2408314
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2408309, 2408312, 2408314
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2408309, 2408312, 2408314
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2408311, 2408313, 2408315
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2408311, 2408313, 2408315
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2408311, 2408313, 2408315
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2408311, 2408313, 2408315
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2408327
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2408309, 2408312, 2408314
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2408309, 2408312, 2408314
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2408309, 2408312, 2408314
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2408309, 2408312, 2408314
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2408311, 2408313, 2408315

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	05/10/2023			05/10/2023 14:16	Alexis Price	2408309
	05/10/2023			05/10/2023 15:01	Alexis Price	2408312
	05/10/2023			05/10/2023 15:10	Alexis Price	2408314
EPA 180.1 Rev. 2.0	05/10/2023			05/10/2023 14:02	Anna M. Plaviak	2408309
	05/10/2023			05/10/2023 14:23	Anna M. Plaviak	2408312
	05/10/2023			05/10/2023 14:24	Anna M. Plaviak	2408314
EPA 300.0 Rev. 2.1	05/10/2023			05/11/2023 22:37	James L Waggeberby	2408309
	05/10/2023			05/11/2023 22:52	James L Waggeberby	2408312
	05/10/2023			05/11/2023 23:07	James L Waggeberby	2408314
EPA 350.1 Rev. 2.0	05/10/2023			05/11/2023 11:56	Khloe J Berg	2408311
	05/10/2023			05/16/2023 14:09	Khloe J Berg	2408313
	05/10/2023			05/16/2023 14:14	Khloe J Berg	2408315
EPA 351.2 Rev. 2.0	05/10/2023	05/17/2023 10:59	Dana G. Hughes	05/18/2023 10:11	Samantha L Bates	2408313
	05/10/2023	05/17/2023 10:59	Dana G. Hughes	05/18/2023 10:29	Samantha L Bates	2408311
	05/10/2023	05/17/2023 10:59	Dana G. Hughes	05/18/2023 10:48	Samantha L Bates	2408315
EPA 353.2 Rev. 2.0	05/10/2023			05/17/2023 11:07	Beverly Y. Sanders	2408313
	05/10/2023			05/17/2023 11:16	Beverly Y. Sanders	2408315
	05/10/2023			05/22/2023 10:07	Beverly Y. Sanders	2408311
EPA 365.1 Rev. 2.0	05/10/2023	05/12/2023 12:59	Adam P Silver	05/15/2023 14:59	James L Waggeberby	2408311
	05/10/2023	05/12/2023 12:59	Adam P Silver	05/15/2023 15:16	James L Waggeberby	2408313
	05/10/2023	05/12/2023 12:59	Adam P Silver	05/15/2023 15:17	James L Waggeberby	2408315
EPA 8321B	05/10/2023	05/12/2023 09:00	Hoor Shaik	05/12/2023 23:12	Juyoung Kim	2408327
	05/10/2023	05/12/2023 09:00	Hoor Shaik	05/15/2023 12:41	Juyoung Kim	2408327
	05/10/2023	05/12/2023 09:00	Manjita Shrestha	05/12/2023 14:42	Manjita Shrestha	2408327
	05/10/2023	05/12/2023 09:00	Manjita Shrestha	05/13/2023 18:27	Manjita Shrestha	2408327
SM 2320 B-2011	05/10/2023			05/19/2023 11:51	Dale L. Simmons	2408309
	05/10/2023			05/20/2023 04:49	Dale L. Simmons	2408312
	05/10/2023			05/20/2023 07:34	Dale L. Simmons	2408314
SM 2540 C-2015	05/10/2023			05/12/2023 15:01	Yijie Li	2408309, 2408312, 2408314
SM 2540 D-2015	05/10/2023			05/12/2023 15:01	Yijie Li	2408309, 2408312, 2408314
SM 4500-F- C-2011	05/10/2023			05/15/2023 23:34	Dale L. Simmons	2408312
	05/10/2023			05/15/2023 23:39	Dale L. Simmons	2408314
	05/10/2023			05/16/2023 01:11	Dale L. Simmons	2408309
SM 5310 B-2011	05/10/2023			05/13/2023 07:28	Elise M. Gillis	2408313
	05/10/2023			05/15/2023 17:00	Elise M. Gillis	2408315
	05/10/2023			05/20/2023 04:24	Elise M. Gillis	2408311