

Chemical Analysis Report

SW-DIST-2023-09-14-01

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

Event Description: **SMP:: Run 13**
Request ID: **RQ-2023-09-11-58**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

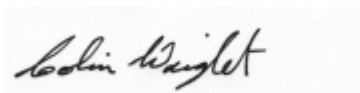
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This Report replaces the previous Report Serial Number: 0149146

Report Comment: The qualifier "J" has been removed from the result for Naproxen for the sample with Field ID: G2SW0144.

Revision certified by: Colin Wright, Program Administrator

Date Certified: 11-OCT-2023 15:02



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: FISHHAWK CREEK AT HA SITE

Collection Date/Time: 09/13/2023 09:35

Field ID: G2SW0144

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2437002	EPA 8321B	2,4-D	0.0020	U	ug/L	P435061	
		Acesulfame K	0.10	U	ug/L	P434981	
		2,4,5-T	0.0040	U	ug/L	P435061	
		AMPA	8.7		ug/L	P434981	
		Acetaminophen	0.0080	U	ug/L	P435061	
		Acetamiprid	0.0020	U	ug/L	P435061	
		Endothall	0.25	U	ug/L	P434981	
		Glufosinate	0.10	U	ug/L	P434981	
		Glyphosate	1.3		ug/L	P434981	
		Afidopyropen	0.0020	U	ug/L	P435061	
		Sucralose	0.18		ug/L	P434981	
		Bentazon	8.0E-04	UJ	ug/L	P435061	MS
		Benzovindiflupyr	0.0020	U	ug/L	P435061	
		Carbamazepine	8.0E-04	U	ug/L	P435061	
		Clothianidin	0.47		ug/L	P435061	
		Dinotefuran	0.0021	I	ug/L	P435061	
		Diuron	0.0020	U	ug/L	P435061	
		Fenuron	0.032	U	ug/L	P435061	
		Fluridone	8.0E-04	U	ug/L	P435061	
		Imazapyr	0.051		ug/L	P435061	
		Hydrocodone	0.0020	U	ug/L	P435061	
		Ibuprofen	0.080	U	ug/L	P435061	
		Imidacloprid	25		ug/L	P435061	
		Linuron	0.0040	U	ug/L	P435061	
		Mandestrobin	0.0020	U	ug/L	P435061	
		MCPP	0.0020	U	ug/L	P435061	
		Naproxen	0.0080	U	ug/L	P435061	
		Primidone	0.0040	U	ug/L	P435061	
		Pyraclostrobin	0.012		ug/L	P435061	
		Silvex	0.0040	U	ug/L	P435061	
		Thiamethoxam	0.0026	I	ug/L	P435061	
		Tolfenpyrad	0.0020	U	ug/L	P435061	
		Triclopyr	0.0040	U	ug/L	P435061	

Ref. Method and Comment:

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: MOCCASSIN CREEK AT CR 39

Collection Date/Time: 09/13/2023 10:10

Field ID: G2SW0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2436981	DEP SOP: NU-094-1	Color (true)	55		PCU	P435014	
	EPA 180.1 Rev. 2.0	Turbidity	8.3		NTU	P435018	
	EPA 300.0 Rev. 2.1	Chloride	34		mg Cl/L	P435514	
		Sulfate	53		mg SO4/L	P435378	
	SM 2320 B-2011	Total Alkalinity	43		mg CaCO3/L	P435267	
	SM 2540 C-2015	TDS	205		mg/L	P435389	
	SM 2540 D-2015	TSS	11		mg/L	P435298	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P435272	
2436983	EPA 350.1 Rev. 2.0	Ammonia-N	0.054		mg N/L	P435139	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P435554	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.32		mg N/L	P435283	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P435228	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P435600	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: CHITO BRANCH AT CR39

Collection Date/Time: 09/13/2023 10:25

Field ID: G2SW0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2436979	DEP SOP: NU-094-1	Color (true)	380		PCU	P435014	
	EPA 180.1 Rev. 2.0	Turbidity	4.7		NTU	P435018	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P435514	
		Sulfate	3.9		mg SO4/L	P435378	
	SM 2320 B-2011	Total Alkalinity	61		mg CaCO3/L	P435267	
	SM 2540 C-2015	TDS	156		mg/L	P435389	
	SM 2540 D-2015	TSS	4	I	mg/L	P435298	
2436980	SM 4500-F- C-2011	Fluoride	0.37		mg F/L	P435272	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P435139	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P435554	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.096		mg N/L	P435282	
	EPA 365.1 Rev. 2.0	Total-P	0.81		mg P/L	P435228	
2437001	SM 5310 B-2011	Organic Carbon	32		mg C/L	P435600	
	EPA 8321B	2,4-D	0.0026	I	ug/L	P435061	
		Acesulfame K	0.10	U	ug/L	P434981	
		2,4,5-T	0.0040	U	ug/L	P435061	
		AMPA	0.21	I	ug/L	P434981	
		Acetaminophen	0.0080	U	ug/L	P435061	
		Acetamiprid	0.0020	U	ug/L	P435061	
		Endothall	0.25	U	ug/L	P434981	
		Glufosinate	0.10	U	ug/L	P434981	
		Glyphosate	0.17	I	ug/L	P434981	
		Afidopyropen	0.0020	U	ug/L	P435061	
		Sucralose	0.030	I	ug/L	P434981	
		Bentazon	8.0E-04	U	ug/L	P435061	MS
		Benzovindiflupyr	0.0020	U	ug/L	P435061	
		Carbamazepine	8.0E-04	U	ug/L	P435061	
		Clothianidin	0.0020	U	ug/L	P435061	
		Dinotefuran	0.0020	U	ug/L	P435061	
		Diuron	0.0020	U	ug/L	P435061	
		Fenuron	0.032	U	ug/L	P435061	
		Fluridone	8.0E-04	U	ug/L	P435061	
		Imazapyr	0.019		ug/L	P435061	
		Hydrocodone	0.0020	U	ug/L	P435061	
		Ibuprofen	0.080	U	ug/L	P435061	
		Imidacloprid	0.0020	U	ug/L	P435061	
		Linuron	0.0040	U	ug/L	P435061	
		Mandestrobin	0.0020	U	ug/L	P435061	
		MCPP	0.0020	U	ug/L	P435061	
		Naproxen	0.0080	U	ug/L	P435061	
		Primidone	0.0040	U	ug/L	P435061	
		Pyraclostrobin	0.0020	U	ug/L	P435061	
		Silvex	0.0040	U	ug/L	P435061	
		Thiamethoxam	0.0020	U	ug/L	P435061	

Field ID: G2SW0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2437001	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P435061	
		Triclopyr	0.0040	U	ug/L	P435061	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high 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: MCDONALD BRANCH AT THOMPSON RD

Collection Date/Time: 09/13/2023 10:40

Field ID: G2SW0093

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2437003	EPA 8321B	2,4-D	0.0020	U	ug/L	P435061	
		Acesulfame K	0.10	U	ug/L	P434981	
		2,4,5-T	0.0040	U	ug/L	P435061	
		AMPA	0.10	U	ug/L	P434981	
		Acetaminophen	0.0080	U	ug/L	P435061	
		Acetamiprid	0.0020	U	ug/L	P435061	
		Endothall	0.25	U	ug/L	P434981	
		Glufosinate	0.10	U	ug/L	P434981	
		Glyphosate	0.10	U	ug/L	P434981	
		Afidopyropen	0.0020	U	ug/L	P435061	
		Sucralose	0.18		ug/L	P434981	
		Bentazon	8.0E-04	U	ug/L	P435061	MS
		Benzovindiflupyr	0.0020	U	ug/L	P435061	
		Carbamazepine	8.0E-04	U	ug/L	P435061	
		Clothianidin	0.0020	U	ug/L	P435061	
		Dinotefuran	0.0020	U	ug/L	P435061	
		Diuron	0.0020	U	ug/L	P435061	
		Fenuron	0.032	U	ug/L	P435061	
		Fluridone	0.0027	I	ug/L	P435061	
		Imazapyr	0.0040	U	ug/L	P435061	
		Hydrocodone	0.0020	U	ug/L	P435061	
		Ibuprofen	0.080	U	ug/L	P435061	
		Imidacloprid	0.0020	U	ug/L	P435061	
		Linuron	0.0040	U	ug/L	P435061	
		Mandestrobin	0.0020	U	ug/L	P435061	
		MCPP	0.0020	U	ug/L	P435061	
		Naproxen	0.0080	U	ug/L	P435061	
		Primidone	0.0040	U	ug/L	P435061	
		Pyraclostrobin	0.0020	U	ug/L	P435061	
		Silvex	0.0040	U	ug/L	P435061	
		Thiamethoxam	0.0020	U	ug/L	P435061	
		Tolfenpyrad	0.0020	U	ug/L	P435061	
		Triclopyr	0.0040	U	ug/L	P435061	

Ref. Method and Comment:

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

**Sample Location: ALAFIA RIVER S PRONG WEST BRANCH AT
KEYSVILLE RD**

Collection Date/Time: 09/13/2023 11:00

Field ID: G2SW0160

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2436982	DEP SOP: NU-094-1	Color (true)	47	A	PCU	P435014	
	EPA 180.1 Rev. 2.0	Turbidity	5.6		NTU	P435018	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P435514	
		Sulfate	35		mg SO4/L	P435378	
	SM 2320 B-2011	Total Alkalinity	33		mg CaCO3/L	P435267	
	SM 2540 C-2015	TDS	151		mg/L	P435389	
	SM 2540 D-2015	TSS	6	I	mg/L	P435298	
	SM 4500-F- C-2011	Fluoride	0.42		mg F/L	P435272	
2436984	EPA 350.1 Rev. 2.0	Ammonia-N	0.051		mg N/L	P435139	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P435554	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.8		mg N/L	P435283	
	EPA 365.1 Rev. 2.0	Total-P	0.57		mg P/L	P435228	
	SM 5310 B-2011	Organic Carbon	7.3		mg C/L	P435600	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: 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: P435014

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435018

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435378

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435514

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435139

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435554

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435282

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435283

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435228

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P434981

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: P435061

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
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: P435267

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2015

Batch ID: P435389

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P435298

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P435272

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P435600

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: P435014

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435018

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435514

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435139

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435554

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435282

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435228

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P434981

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	110		P	40 - 150
Endothall	93.6		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	97.5		P	40 - 150
Sucralose	95.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435061

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.0		P	40 - 150
2,4,5-T	96.3		P	40 - 150
Acetaminophen	79.0		P	30 - 150
Acetamiprid	87.8		P	40 - 150
Afidopyropen	58.0		P	30 - 150
Bentazon	82.3		P	30 - 150
Benzovindiflupyr	88.0		P	40 - 150
Carbamazepine	84.4		P	40 - 150
Clothianidin	95.1		P	40 - 150
Dinotefuran	95.2		P	40 - 150
Diuron	80.0		P	40 - 150
Fenuron	89.2		P	40 - 150
Fluridone	80.7		P	40 - 150
Hydrocodone	77.0		P	40 - 150
Ibuprofen	71.0		P	40 - 150
Imazapyr	80.6		P	40 - 150
Imidacloprid	87.1		P	40 - 150
Linuron	71.2		P	40 - 150
Mandestrobin	87.4		P	40 - 150
MCPP	111		P	40 - 150
Naproxen	87.2		P	40 - 150
Primidone	85.6		P	40 - 150
Pyraclostrobin	70.6		P	40 - 150
Silvex	99.2		P	40 - 150
Thiamethoxam	96.1		P	40 - 150
Tolfenpyrad	65.3		P	30 - 150
Triclopyr	102		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P435267

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.3		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P435389

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P435298

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	103		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P435272

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435600

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436894	Sulfate	93.4		P	90 - 110
2436938	Sulfate	92.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435514

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436917	Chloride	103		P	90 - 110
2436979	Chloride	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435139

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436940	Ammonia-N	97.8	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435554

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436972	Kjeldahl Nitrogen	101	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435282

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436434	NO2NO3-N	90.4	95.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436983	NO2NO3-N	103		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P434981

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436927	Acesulfame K	103	107	P/P	40 - 150
2436927	AMPA	59.1	60.2	P/P	40 - 150
2436927	Endothall	118	121	P/P	40 - 150
2436927	Glufosinate	116	116	P/P	40 - 150
2436927	Glyphosate	77.6	76.9	P/P	40 - 150
2436927	Sucralose	104	112	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435061

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437002	2,4-D	99.0	92.2	P/P	40 - 150
2437002	2,4,5-T	98.0	97.7	P/P	40 - 150
2437002	Acetaminophen	69.8	68.0	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P435061

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437002	Acetamiprid	57.6	57.8	P/P	40 - 150
2437002	Afidopyropen	73.6	67.2	P/P	30 - 150
2437002	Bentazon	29.3	29.6	F/F	30 - 150
2437002	Benzovindiflupyr	89.1	83.8	P/P	40 - 150
2437002	Carbamazepine	57.5	55.4	P/P	40 - 150
2437002	Dinotefuran	65.8	66.1	P/P	40 - 150
2437002	Diuron	49.5	47.1	P/P	40 - 150
2437002	Fenuron	41.8	40.8	P/P	40 - 150
2437002	Fluridone	52.9	52.2	P/P	40 - 150
2437002	Hydrocodone	45.8	43.9	P/P	40 - 150
2437002	Ibuprofen	56.6	61.4	P/P	40 - 150
2437002	Imazapyr	90.2	72.9	P/P	40 - 150
2437002	Linuron	57.6	51.4	P/P	40 - 150
2437002	Mandestrobin	55.3	70.8	P/P	40 - 150
2437002	MCP	108	100	P/P	40 - 150
2437002	Naproxen	70.6	79.8	P/P	40 - 150
2437002	Primidone	68.1	61.9	P/P	40 - 150
2437002	Pyraclostrobin	72.1	65.5	P/P	40 - 150
2437002	Silvex	97.3	92.0	P/P	40 - 150
2437002	Thiamethoxam	64.5	62.8	P/P	40 - 150
2437002	Tolfenpyrad	52.7	58.6	P/P	30 - 150
2437002	Triclopyr	107	97.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P435272

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437050	Fluoride	98.3	98.3	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P435600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436980	Organic Carbon	101		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436982	Color (true)	5.55	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435018

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436934	Turbidity	4.22	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436894	Sulfate	2.55	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435514

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436917	Chloride	2.47	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436940	Ammonia-N	1.58	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435554

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436972	Kjeldahl Nitrogen	4.49	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435282

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436434	NO2NO3-N	5.74	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436983	NO2NO3-N	0.189	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P435228

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437035	Total-P	0.680	Spike	P	0 - 20

Reference Method: EPA 8321B

Batch ID: P434981

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436927	Acesulfame K	3.90	Spike	P	0 - 30
2436927	AMPA	1.99	Spike	P	0 - 30
2436927	Endothall	2.60	Spike	P	0 - 30
2436927	Glufosinate	0.0698	Spike	P	0 - 30
2436927	Glyphosate	0.959	Spike	P	0 - 30
2436927	Sucralose	7.82	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P435061

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437002	2,4-D	7.08	Spike	P	0 - 30
2437002	2,4,5-T	0.337	Spike	P	0 - 30
2437002	Acetaminophen	2.67	Spike	P	0 - 30
2437002	Acetamiprid	0.320	Spike	P	0 - 30
2437002	Afidopyropen	8.99	Spike	P	0 - 30
2437002	Bentazon	1.09	Spike	P	0 - 30
2437002	Benzovindiflupyr	6.15	Spike	P	0 - 30
2437002	Carbamazepine	3.76	Spike	P	0 - 30
2437002	Clothianidin	5.36	Spike	P	0 - 30
2437002	Dinotefuran	0.353	Spike	P	0 - 30
2437002	Diuron	4.86	Spike	P	0 - 30
2437002	Fenuron	2.64	Spike	P	0 - 30
2437002	Fluridone	1.17	Spike	P	0 - 30
2437002	Hydrocodone	4.28	Spike	P	0 - 30
2437002	Ibuprofen	8.14	Spike	P	0 - 30
2437002	Imazapyr	11.9	Spike	P	0 - 30
2437002	Imidacloprid	3.18	Spike	P	0 - 30
2437002	Linuron	11.4	Spike	P	0 - 30
2437002	Mandestrobin	24.6	Spike	P	0 - 30
2437002	MCPP	7.91	Spike	P	0 - 30
2437002	Naproxen	12.2	Spike	P	0 - 30
2437002	Primidone	9.57	Spike	P	0 - 30
2437002	Pyraclostrobin	7.87	Spike	P	0 - 30
2437002	Silvex	5.61	Spike	P	0 - 30
2437002	Thiamethoxam	2.52	Spike	P	0 - 30
2437002	Tolfenpyrad	10.4	Spike	P	0 - 30
2437002	Triclopyr	8.76	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P435267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437050	Total Alkalinity	1.78	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P435389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436430	TDS	7.67	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437050	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436980	Organic Carbon	0.457	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2437001

Field Sample ID: G2SW0135

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	76.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	42.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	48.6	P	30 - 160
EPA 8321B	Diuron-d6	38.1	P	30 - 160
EPA 8321B	Endothall-d6	93.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	113	P	30 - 160
EPA 8321B	Ibuprofen-d3	56.1	P	30 - 160
EPA 8321B	Primidone-d5	41.8	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Lab Sample ID: 2437002

Field Sample ID: G2SW0144

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	64.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	104	P	30 - 160
EPA 8321B	Diuron-d6	43.2	P	30 - 160
EPA 8321B	Endothall-d6	105	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	98.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.3	P	30 - 160
EPA 8321B	Primidone-d5	59.7	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Lab Sample ID: 2437003

Field Sample ID: G2SW0093

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	132	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.4	P	30 - 160
EPA 8321B	Diuron-d6	54.9	P	30 - 160
EPA 8321B	Endothall-d6	95.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	91.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.3	P	30 - 160
EPA 8321B	Primidone-d5	71.2	P	30 - 160
EPA 8321B	Sucralose-d6	94.4	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A121541

Included Lab Sample IDs: 2436979, 2436981, 2436982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.5	99.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121543

Included Lab Sample IDs: 2436979, 2436981, 2436982

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

Reference Method: EPA 8321B

Run ID: A121577

Included Lab Sample IDs: 2437001, 2437002, 2437003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	103	P/P	60 - 160
Sucralose	100	97.4	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121599

Included Lab Sample IDs: 2436980, 2436983, 2436984

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

Reference Method: EPA 8321B

Run ID: A121604

Included Lab Sample IDs: 2437001, 2437002, 2437003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	94.3	87.6	P/P	60 - 160
Endothall	89.3	87.4	P/P	60 - 160
Glufosinate	104	100	P/P	60 - 160
Glyphosate	79.0	95.8	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121621

Included Lab Sample IDs: 2437001, 2437002, 2437003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	78.9	89.8	P/P	50 - 150
2,4-D	89.8	78.4	P/P	50 - 150
2,4,5-T	83.3	88.9	P/P	50 - 150
2,4,5-T	88.9	74.3	P/P	50 - 150
Acetaminophen	102	99.8	P/P	60 - 160
Acetaminophen	99.8	101	P/P	60 - 160
Acetamiprid	108	107	P/P	50 - 150
Acetamiprid	108	108	P/P	50 - 150
Afidopyropen	94.3	97.3	P/P	50 - 150
Afidopyropen	97.3	103	P/P	50 - 150
Bentazon	104	102	P/P	50 - 160
Bentazon	105	104	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A121621

Included Lab Sample IDs: 2437001, 2437002, 2437003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Benzovindiflupyr	103	102	P/P	50 - 150
Benzovindiflupyr	104	103	P/P	50 - 150
Carbamazepine	101	100	P/P	60 - 150
Carbamazepine	102	101	P/P	60 - 150
Clothianidin	106	113	P/P	60 - 150
Clothianidin	107	106	P/P	60 - 150
Dinotefuran	106	108	P/P	50 - 150
Dinotefuran	108	106	P/P	50 - 150
Diuron	101	101	P/P	60 - 160
Diuron	105	101	P/P	60 - 160
Fenuron	103	102	P/P	60 - 150
Fenuron	103	103	P/P	60 - 150
Fluridone	97.3	97.4	P/P	60 - 160
Fluridone	97.4	94.5	P/P	60 - 160
Hydrocodone	97.0	96.2	P/P	60 - 150
Hydrocodone	98.7	97.0	P/P	60 - 150
Ibuprofen	114	97.5	P/P	50 - 160
Ibuprofen	98.9	114	P/P	50 - 160
Imazapyr	93.8	97.0	P/P	50 - 150
Imazapyr	97.0	93.8	P/P	50 - 150
Imidacloprid	95.0	94.9	P/P	60 - 150
Imidacloprid	97.0	95.0	P/P	60 - 150
Imidacloprid	97.9	94.5	P/P	60 - 150
Linuron	103	98.5	P/P	60 - 150
Linuron	104	103	P/P	60 - 150
Mandestrobin	105	74.1	P/P	50 - 150
Mandestrobin	98.6	105	P/P	50 - 150
MCPP	84.3	83.5	P/P	50 - 150
MCPP	92.6	84.3	P/P	50 - 150
Naproxen	69.9	85.2	P/P	50 - 160
Naproxen	70.7	69.9	P/P	50 - 160
Primidone	91.7	95.5	P/P	60 - 150
Primidone	98.7	91.7	P/P	60 - 150
Pyraclostrobin	91.4	95.7	P/P	60 - 150
Pyraclostrobin	95.7	94.2	P/P	60 - 150
Silvex	85.1	94.2	P/P	50 - 150
Silvex	93.5	85.1	P/P	50 - 150
Thiamethoxam	109	108	P/P	50 - 150
Thiamethoxam	111	109	P/P	50 - 150
Tolfenpyrad	102	99.1	P/P	60 - 150
Tolfenpyrad	95.6	102	P/P	60 - 150
Triclopyr	89.6	95.5	P/P	50 - 150
Triclopyr	95.5	79.9	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121649

Included Lab Sample IDs: 2436980, 2436983, 2436984

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A121658

Included Lab Sample IDs: 2436979, 2436981, 2436982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.5	97.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121658

Included Lab Sample IDs: 2436979, 2436981, 2436982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A121662

Included Lab Sample IDs: 2436980, 2436983, 2436984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	103	P/P	90 - 110
NO2NO3-N	103	104	P/P	90 - 110
NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121711

Included Lab Sample IDs: 2436979, 2436981, 2436982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	98.9	99.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121771

Included Lab Sample IDs: 2436979, 2436981, 2436982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	98.2	P/P	90 - 110
Chloride	98.2	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A121794

Included Lab Sample IDs: 2436980, 2436983, 2436984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.9	96.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121827

Included Lab Sample IDs: 2436980, 2436983, 2436984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	108	101	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)	98.4			5.55	
EPA 180.1 Rev. 2.0	Turbidity	103			4.22	
EPA 300.0 Rev. 2.1	Chloride	101	103	105	2.47	
	Sulfate	94.5	93.4	92.2	2.55	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	97.8	99.6		1.58
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	101	108		4.49
EPA 353.2 Rev. 2.0	NO2NO3-N	104	90.4	95.9		5.74
	NO2NO3-N	104	103			0.189
EPA 365.1 Rev. 2.0	Total-P	104				0.680
EPA 8321B	2,4-D	89.0	99.0	92.2		7.08
	2,4,5-T	96.3	98.0	97.7		0.337
	Acesulfame K	101	103	107		3.90
	Acetaminophen	79.0	68.0	69.8		2.67
	Acetamiprid	87.8	57.6	57.8		0.320
	Afidopyropen	58.0	73.6	67.2		8.99
	AMPA	110	59.1	60.2		1.99
	Bentazon	82.3	29.3	29.6		1.09
	Benzovindiflupyr	88.0	89.1	83.8		6.15
	Carbamazepine	84.4	57.5	55.4		3.76
	Clothianidin	95.1				5.36
	Dinotefuran	95.2	66.1	65.8		0.353
	Diuron	80.0	49.5	47.1		4.86
	Endothall	93.6	118	121		2.60
	Fenuron	89.2	41.8	40.8		2.64
	Fluridone	80.7	52.9	52.2		1.17
	Glufosinate	106	116	116		0.0698
	Glyphosate	97.5	77.6	76.9		0.959
	Hydrocodone	77.0	43.9	45.8		4.28
	Ibuprofen	71.0	56.6	61.4		8.14
	Imazapyr	80.6	90.2	72.9		11.9
	Imidacloprid	87.1				3.18
	Linuron	71.2	57.6	51.4		11.4
	Mandestrobin	87.4	55.3	70.8		24.6
	MCPP	111	108	100		7.91
	Naproxen	87.2	70.6	79.8		12.2
	Primidone	85.6	68.1	61.9		9.57
	Pyraclostrobin	70.6	72.1	65.5		7.87
	Silvex	99.2	97.3	92.0		5.61
	Sucralose	95.0	104	112		7.82
	Thiamethoxam	96.1	64.5	62.8		2.52
	Tolfenpyrad	65.3	52.7	58.6		10.4
	Triclopyr	102	107	97.8		8.76
SM 2320 B-2011	Total Alkalinity	96.3			1.78	
SM 2540 C-2015	TDS	103			7.67	
SM 2540 D-2015	TSS	103				
SM 4500-F- C-2011	Fluoride	98.3	98.3	98.3		0.0
SM 5310 B-2011	Organic Carbon	94.2	101			0.457

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2436979, 2436981, 2436982
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2436979, 2436981, 2436982

Reference Method Descriptions

Method	Description	Associated Samples
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2436979, 2436981, 2436982
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2436979, 2436981, 2436982
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2436980, 2436983, 2436984
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2436980, 2436983, 2436984
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2436980, 2436983, 2436984
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2436980, 2436983, 2436984
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2437001, 2437002, 2437003
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2436979, 2436981, 2436982
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2436979, 2436981, 2436982
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2436979, 2436981, 2436982
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2436979, 2436981, 2436982
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2436980, 2436983, 2436984

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	09/14/2023			09/14/2023 13:48	Samantha L Bates	2436979
	09/14/2023			09/14/2023 13:49	Samantha L Bates	2436981
	09/14/2023			09/14/2023 13:50	Samantha L Bates	2436982
EPA 180.1 Rev. 2.0	09/14/2023			09/14/2023 12:56	Alexis Price	2436979, 2436981
EPA 300.0 Rev. 2.1	09/14/2023			09/14/2023 12:57	Alexis Price	2436982
	09/14/2023			09/20/2023 21:47	James L Waggeberby	2436979
	09/14/2023			09/20/2023 22:02	James L Waggeberby	2436981
	09/14/2023			09/20/2023 22:17	James L Waggeberby	2436982
	09/14/2023			09/25/2023 18:09	James L Waggeberby	2436979
EPA 350.1 Rev. 2.0	09/14/2023			09/25/2023 23:11	James L Waggeberby	2436981
	09/14/2023			09/25/2023 23:26	James L Waggeberby	2436982
	09/14/2023			09/18/2023 12:17	Ping Hua	2436980
	09/14/2023			09/18/2023 12:18	Ping Hua	2436983
	09/14/2023			09/18/2023 12:20	Ping Hua	2436984
EPA 351.2 Rev. 2.0	09/14/2023	09/27/2023 12:06	Simonne.V. Calhoun	09/28/2023 14:13	Samantha L Bates	2436980
	09/14/2023	09/27/2023 12:06	Simonne.V. Calhoun	09/28/2023 14:14	Samantha L Bates	2436983
	09/14/2023	09/27/2023 12:06	Simonne.V. Calhoun	09/28/2023 14:16	Samantha L Bates	2436984
EPA 353.2 Rev. 2.0	09/14/2023			09/19/2023 14:35	Anna M. Plaviak	2436980
	09/14/2023			09/19/2023 14:42	Anna M. Plaviak	2436983
	09/14/2023			09/19/2023 16:13	Anna M. Plaviak	2436984
EPA 365.1 Rev. 2.0	09/14/2023	09/19/2023 16:30	Alexis Price	09/20/2023 12:10	Chandler E Cox	2436980
	09/14/2023	09/19/2023 16:30	Alexis Price	09/20/2023 12:11	Chandler E Cox	2436983
	09/14/2023	09/19/2023 16:30	Alexis Price	09/20/2023 12:12	Chandler E Cox	2436984
EPA 8321B	09/14/2023	09/15/2023 12:00	Hana Lee	09/15/2023 19:08	Tae K Lee	2437001
	09/14/2023	09/15/2023 12:00	Hana Lee	09/15/2023 19:22	Tae K Lee	2437002
	09/14/2023	09/15/2023 12:00	Hana Lee	09/15/2023 19:36	Tae K Lee	2437003
	09/14/2023	09/15/2023 12:00	Hana Lee	09/18/2023 12:54	Tae K Lee	2437001
	09/14/2023	09/15/2023 12:00	Hana Lee	09/18/2023 13:07	Tae K Lee	2437002
	09/14/2023	09/15/2023 12:00	Hana Lee	09/18/2023 13:20	Tae K Lee	2437003
	09/14/2023	09/18/2023 09:00	Hoor Shaik	09/18/2023 20:05	Juyoung Kim	2437002
	09/14/2023	09/18/2023 09:00	Hoor Shaik	09/18/2023 20:59	Juyoung Kim	2437001
	09/14/2023	09/18/2023 09:00	Hoor Shaik	09/18/2023 21:34	Juyoung Kim	2437003
SM 2320 B-2011	09/14/2023			09/19/2023 12:17	Juyoung Kim	2437002
	09/14/2023			09/20/2023 07:34	Adam P Silver	2436979
	09/14/2023			09/20/2023 07:47	Adam P Silver	2436981
	09/14/2023			09/20/2023 07:59	Adam P Silver	2436982
SM 2540 C-2015	09/14/2023			09/15/2023 16:01	Yijie Li	2436979, 2436981, 2436982
SM 2540 D-2015	09/14/2023			09/15/2023 16:01	Yijie Li	2436979, 2436981, 2436982
SM 4500-F- C-2011	09/14/2023			09/20/2023 07:34	Adam P Silver	2436979
	09/14/2023			09/20/2023 07:47	Adam P Silver	2436981

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	09/14/2023			09/20/2023 07:59	Adam P Silver	2436982
SM 5310 B-2011	09/14/2023			09/26/2023 13:23	Khloe J Berg	2436980
	09/14/2023			09/26/2023 14:23	Khloe J Berg	2436983
	09/14/2023			09/26/2023 15:06	Khloe J Berg	2436984