

Chemical Analysis Report

SW-DIST-2023-12-22-01

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

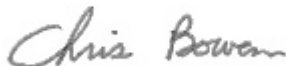
Event Description: **Run 6**
Request ID: **RQ-2023-12-18-12**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 16-JAN-2024 10:16



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 Effie at Center

Collection Date/Time: 12/21/2023 11:10

Field ID: G3SW0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2458585	DEP SOP: NU-094-1	Color (true)	57		PCU	P439435	
	EPA 180.1 Rev. 2.0	Turbidity	12	A	NTU	P439434	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P439531	
		Sulfate	10		mg SO4/L	P439534	
	SM 2320 B-2011	Total Alkalinity	122		mg CaCO3/L	P439485	
	SM 2540 C-2015	TDS	219		mg/L	P439636	
	SM 2540 D-2015	TSS	19	I	mg/L	P439638	
	SM 4500-F- C-2011	Fluoride	0.076	I	mg F/L	P439490	
2458586	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P439599	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P439453	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P439481	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P439603	
	SM 5310 B-2014	Organic Carbon	16		mg C/L	P439615	
2458587	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P439424	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.

Sample Location: Lake Garfield Drain at Snell Rd

Collection Date/Time: 12/21/2023 12:00

Field ID: G3SW0106

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2458588	DEP SOP: NU-094-1	Color (true)	53	A	PCU	P439435	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P439434	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P439531	
		Sulfate	22		mg SO4/L	P439534	
	SM 2320 B-2011	Total Alkalinity	11		mg CaCO3/L	P439485	
	SM 2540 C-2015	TDS	101		mg/L	P439636	
	SM 2540 D-2015	TSS	4	I	mg/L	P439638	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P439490	
2458589	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P439646	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48		mg N/L	P439453	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.93		mg N/L	P439610	
	EPA 365.1 Rev. 2.0	Total-P	0.045		mg P/L	P439603	
	SM 5310 B-2014	Organic Carbon	7.8		mg C/L	P439615	
2458602	EPA 8321B	2,4-D	0.0020	U	ug/L	P439250	
		Acesulfame K	0.10	U	ug/L	P439184	
		2,4,5-T	0.0040	U	ug/L	P439250	
		AMPA	0.10	U	ug/L	P439184	MS
		Acetaminophen	0.0080	U	ug/L	P439250	
		Acetamiprid	0.0020	U	ug/L	P439250	
		Endothall	0.25	U	ug/L	P439184	
		Glufosinate	0.10	U	ug/L	P439184	
		Glyphosate	0.10	U	ug/L	P439184	
		Afidopyropen	0.0020	U	ug/L	P439250	
		Bentazon	8.0E-04	U	ug/L	P439250	
		Sucralose	0.045		ug/L	P439184	
		Benzovindiflupyr	0.0020	U	ug/L	P439250	
		Carbamazepine	8.0E-04	U	ug/L	P439250	
		Clothianidin	0.0020	U	ug/L	P439250	
		Dinotefuran	0.0020	U	ug/L	P439250	
		Diuron	0.0020	U	ug/L	P439250	
		Fenuron	0.032	U	ug/L	P439250	
		Fluridone	8.0E-04	U	ug/L	P439250	
		Imazapyr	0.0040	U	ug/L	P439250	
		Hydrocodone	0.0020	U	ug/L	P439250	
		Ibuprofen	0.080	U	ug/L	P439250	
		Imidacloprid	0.11		ug/L	P439250	
		Linuron	0.0040	U	ug/L	P439250	
		Mandestrobin	0.0020	U	ug/L	P439250	
		MCP	0.0020	U	ug/L	P439250	
		Naproxen	0.0080	U	ug/L	P439250	
		Primidone	0.0040	U	ug/L	P439250	
		Pyraclostrobin	0.0020	U	ug/L	P439250	
		Silvex	0.0040	U	ug/L	P439250	
		Thiamethoxam	0.0023	I	ug/L	P439250	

Field ID: G3SW0106

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2458602	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P439250	
		Triclopyr	0.0040	U	ug/L	P439250	

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: Lake IDA at Center

Collection Date/Time: 12/21/2023 13:05

Field ID: G3SW0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2458590	DEP SOP: NU-094-1	Color (true)	22	A	PCU	P439436	
	EPA 180.1 Rev. 2.0	Turbidity	0.65	I	NTU	P439434	
	EPA 300.0 Rev. 2.1	Chloride	32		mg Cl/L	P439531	
		Sulfate	18		mg SO4/L	P439534	
	SM 2320 B-2011	Total Alkalinity	79		mg CaCO3/L	P439485	
	SM 2540 C-2015	TDS	175		mg/L	P439636	
	SM 2540 D-2015	TSS	2	U	mg/L	P439638	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P439490	
2458592	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P439599	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P439453	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P439610	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P439603	
	SM 5310 B-2014	Organic Carbon	7.1		mg C/L	P439615	

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: FB

Collection Date/Time: 12/21/2023 13:15

Field ID: FB_12212023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2458591	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P439436	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P439434	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P439664	
		Sulfate	0.20	U	mg SO4/L	P439666	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P439485	
	SM 2540 C-2015	TDS	15	U	mg/L	P439636	
	SM 2540 D-2015	TSS	2	U	mg/L	P439638	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P439490	
2458593	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P439698	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P439453	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P439610	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P439603	
	SM 5310 B-2014	Organic Carbon	0.50	U	mg C/L	P439615	

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: P439435

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P439436

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P439434

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439531

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439534

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439664

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439666

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439599

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439646

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439698

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439453

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439481

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439610

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439603

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P439424

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

Reference Method: EPA 8321B
Batch ID: P439184

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: P439250

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P439250

Component	Result	Code	Units
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: P439485

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

Reference Method: SM 2540 C-2015

Batch ID: P439636

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P439638

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P439490

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014

Batch ID: P439615

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: P439435

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.8		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P439436

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	93.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P439434

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439531

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439534

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439664

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439666

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439599

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439646

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P439698

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P439453

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P439481

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: P439610

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: P439603

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P439424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.6		P	90 - 110

Reference Method: EPA 8321B

Batch ID: P439184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	128		P	40 - 150
AMPA	89.1		P	40 - 150
Endothall	92.7		P	40 - 150
Glufosinate	93.8		P	40 - 150
Glyphosate	91.2		P	40 - 150
Sucralose	80.7		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P439250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	109		P	40 - 150
2,4,5-T	93.2		P	40 - 150
Acetaminophen	56.1		P	30 - 150
Acetamiprid	88.2		P	40 - 150
Afidopyropen	73.9		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P439250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bentazon	68.7		P	30 - 150
Benzovindiflupyr	80.2		P	40 - 150
Carbamazepine	68.4		P	40 - 150
Clothianidin	84.2		P	40 - 150
Dinotefuran	96.2		P	40 - 150
Diuron	68.7		P	40 - 150
Fenuron	94.2		P	40 - 150
Fluridone	83.4		P	40 - 150
Hydrocodone	81.6		P	40 - 150
Ibuprofen	60.6		P	40 - 150
Imazapyr	81.5		P	40 - 150
Imidacloprid	86.1		P	40 - 150
Linuron	67.2		P	40 - 150
Mandestrobin	84.8		P	40 - 150
MCPP	97.1		P	40 - 150
Naproxen	63.3		P	40 - 150
Primidone	83.3		P	40 - 150
Pyraclostrobin	73.7		P	40 - 150
Silvex	86.9		P	40 - 150
Thiamethoxam	86.0		P	40 - 150
Tolfenpyrad	45.6		P	30 - 150
Triclopyr	107		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P439485

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

Reference Method: SM 2540 C-2015

Batch ID: P439636

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.6		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P439638

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

Reference Method: SM 4500-F- C-2011

Batch ID: P439490

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 5310 B-2014

Batch ID: P439615

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439531

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458540	Chloride	101		P	90 - 110
2458588	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458540	Sulfate	100		P	90 - 110
2458588	Sulfate	99.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458940	Chloride	104		P	90 - 110
2459035	Chloride	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458940	Sulfate	101		P	90 - 110
2459035	Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439599

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458586	Ammonia-N	97.4	97.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458094	Ammonia-N	97.4	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458541	Ammonia-N	99.2	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458589	Kjeldahl Nitrogen	98.0	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439481

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458586	NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439610

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456360	NO2NO3-N	97.2	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458592	Total-P	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P439424

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458587	O-Phosphate-P	98.0	97.6	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P439184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457794	Acesulfame K	133	133	P/P	40 - 150
2457794	AMPA	167	169	F/F	40 - 150
2457794	Endothall	96.9	93.6	P/P	40 - 150
2457794	Glufosinate	104	103	P/P	40 - 150
2457794	Glyphosate	71.1	77.5	P/P	40 - 150
2457794	Sucralose	82.0	77.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P439250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457794	2,4-D	133	110	P/P	40 - 150
2457794	2,4,5-T	103	85.5	P/P	40 - 150
2457794	Acetaminophen	68.8	56.1	P/P	30 - 150
2457794	Acetamiprid	101	87.0	P/P	40 - 150
2457794	Afidopyropen	83.4	67.5	P/P	30 - 150
2457794	Bentazon	61.7	53.3	P/P	30 - 150
2457794	Benzovindiflupyr	96.5	76.5	P/P	40 - 150
2457794	Carbamazepine	78.7	65.4	P/P	40 - 150
2457794	Clothianidin	101	82.6	P/P	40 - 150
2457794	Dinotefuran	124	100	P/P	40 - 150
2457794	Diuron	81.2	65.1	P/P	40 - 150
2457794	Fenuron	123	119	P/P	40 - 150
2457794	Fluridone	92.9	75.2	P/P	40 - 150
2457794	Hydrocodone	101	83.3	P/P	40 - 150
2457794	Ibuprofen	76.1	62.3	P/P	40 - 150
2457794	Imazapyr	106	83.8	P/P	40 - 150
2457794	Imidacloprid	118	92.7	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P439250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457794	Linuron	72.3	60.7	P/P	40 - 150
2457794	Mandestrobin	101	80.7	P/P	40 - 150
2457794	MCPP	119	89.7	P/P	40 - 150
2457794	Naproxen	66.1	60.9	P/P	40 - 150
2457794	Primidone	102	80.1	P/P	40 - 150
2457794	Pyraclostrobin	87.9	71.5	P/P	40 - 150
2457794	Silvex	102	78.2	P/P	40 - 150
2457794	Thiamethoxam	96.1	78.5	P/P	40 - 150
2457794	Tolfenpyrad	61.1	46.0	P/P	30 - 150
2457794	Triclopyr	125	96.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P439490

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2458539	Fluoride	102	102	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P439615

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2459014	Organic Carbon	97.9	97.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P439435

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458588	Color (true)	0.195	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P439436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458590	Color (true)	1.04	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P439434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458585	Turbidity	4.33	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439531

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458540	Chloride	0.307	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458540	Sulfate	0.688	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458940	Chloride	1.21	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458940	Sulfate	2.00	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439599

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458586	Ammonia-N	0.173	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439646

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458094	Ammonia-N	2.21	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458541	Ammonia-N	1.60	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458589	Kjeldahl Nitrogen	7.30	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458586	NO2NO3-N	0.506	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439610

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456360	NO2NO3-N	0.156	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458592	Total-P	0.784	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P439424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458587	O-Phosphate-P	0.409	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P439184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457794	Acesulfame K	0.143	Spike	P	0 - 30
2457794	AMPA	1.21	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P439184

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457794	Endothall	3.48	Spike	P	0 - 30
2457794	Glufosinate	1.53	Spike	P	0 - 30
2457794	Glyphosate	8.66	Spike	P	0 - 30
2457794	Sucralose	5.52	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P439250

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457794	2,4-D	18.5	Spike	P	0 - 30
2457794	2,4,5-T	18.8	Spike	P	0 - 30
2457794	Acetaminophen	20.3	Spike	P	0 - 30
2457794	Acetamiprid	14.4	Spike	P	0 - 30
2457794	Afidopyropen	21.1	Spike	P	0 - 30
2457794	Bentazon	14.6	Spike	P	0 - 30
2457794	Benzovindiflupyr	23.1	Spike	P	0 - 30
2457794	Carbamazepine	18.4	Spike	P	0 - 30
2457794	Clothianidin	20.4	Spike	P	0 - 30
2457794	Dinotefuran	21.3	Spike	P	0 - 30
2457794	Diuron	22.1	Spike	P	0 - 30
2457794	Fenuron	3.26	Spike	P	0 - 30
2457794	Fluridone	21.1	Spike	P	0 - 30
2457794	Hydrocodone	19.5	Spike	P	0 - 30
2457794	Ibuprofen	20.0	Spike	P	0 - 30
2457794	Imazapyr	23.7	Spike	P	0 - 30
2457794	Imidacloprid	24.2	Spike	P	0 - 30
2457794	Linuron	17.5	Spike	P	0 - 30
2457794	Mandestrobin	22.0	Spike	P	0 - 30
2457794	MCPP	27.9	Spike	P	0 - 30
2457794	Naproxen	8.19	Spike	P	0 - 30
2457794	Primidone	23.8	Spike	P	0 - 30
2457794	Pyraclostrobin	20.6	Spike	P	0 - 30
2457794	Silvex	26.7	Spike	P	0 - 30
2457794	Thiamethoxam	20.2	Spike	P	0 - 30
2457794	Tolfenpyrad	28.2	Spike	P	0 - 30
2457794	Triclopyr	25.4	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P439485

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458539	Total Alkalinity	1.33	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P439636

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458432	TDS	1.75	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P439490

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2458539	Fluoride	0.473	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P439615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2459014	Organic Carbon	0.0224	Spike	P	0 - 15

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

Quality Assurance Report Surrogates

Lab Sample ID: 2458602

Field Sample ID: G3SW0106

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	85.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	71.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.5	P	30 - 160
EPA 8321B	Diuron-d6	62.4	P	30 - 160
EPA 8321B	Endothall-d6	155	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	67.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.9	P	30 - 160
EPA 8321B	Primidone-d5	85.1	P	30 - 160
EPA 8321B	Sucralose-d6	89.2	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A123404

Included Lab Sample IDs: 2458587

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	99.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A123408

Included Lab Sample IDs: 2458585, 2458588, 2458590, 2458591

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A123409

Included Lab Sample IDs: 2458585, 2458588, 2458590, 2458591

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.9	98.3	P/P	90 - 110
Color (true)	98.3	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A123411

Included Lab Sample IDs: 2458602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	134	135	P/P	60 - 160
Sucralose	80.8	81.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A123419

Included Lab Sample IDs: 2458602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	84.6	97.2	P/P	60 - 160
Endothall	93.5	94.4	P/P	60 - 160
Glufosinate	99.5	108	P/P	60 - 160
Glyphosate	99.8	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A123436

Included Lab Sample IDs: 2458602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	108	110	P/P	50 - 150
2,4,5-T	81.5	95.3	P/P	50 - 150
Acetaminophen	106	102	P/P	60 - 160
Acetamiprid	110	109	P/P	50 - 150
Afidopyropen	102	111	P/P	50 - 150
Bentazon	104	102	P/P	50 - 160
Benzovindiflupyr	105	107	P/P	50 - 150
Carbamazepine	111	105	P/P	60 - 150
Clothianidin	111	105	P/P	60 - 150
Dinotefuran	114	116	P/P	50 - 150
Diuron	116	112	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A123436
Included Lab Sample IDs: 2458602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenuron	108	109	P/P	60 - 150
Fluridone	110	113	P/P	60 - 160
Hydrocodone	112	112	P/P	60 - 150
Ibuprofen	87.7	83.6	P/P	50 - 160
Imazapyr	94.2	92.7	P/P	50 - 150
Imidacloprid	99.1	96.3	P/P	60 - 150
Linuron	110	95.4	P/P	60 - 150
Mandestrobin	109	115	P/P	50 - 150
MCPP	110	105	P/P	50 - 150
Naproxen	93.0	57.6	P/P	50 - 160
Primidone	99.8	104	P/P	60 - 150
Pyraclostrobin	109	106	P/P	60 - 150
Silvex	111	99.2	P/P	50 - 150
Thiamethoxam	116	116	P/P	50 - 150
Tolfenpyrad	101	98.6	P/P	60 - 150
Triclopyr	101	109	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123437
Included Lab Sample IDs: 2458586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A123438
Included Lab Sample IDs: 2458585, 2458588, 2458590, 2458591

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.1	95.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A123438
Included Lab Sample IDs: 2458585, 2458588, 2458590, 2458591

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123459
Included Lab Sample IDs: 2458586, 2458589, 2458592, 2458593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.3	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123466
Included Lab Sample IDs: 2458585, 2458588, 2458590

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123466

Included Lab Sample IDs: 2458585, 2458588, 2458590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	101	P/P	90 - 110
Sulfate	101	101	P/P	90 - 110
Sulfate	99.8	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123501

Included Lab Sample IDs: 2458586, 2458592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	97.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123503

Included Lab Sample IDs: 2458589, 2458592, 2458593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.5	P/P	90 - 110

Reference Method: SM 5310 B-2014

Run ID: A123504

Included Lab Sample IDs: 2458586, 2458589, 2458592, 2458593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.2	122	P/P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123521

Included Lab Sample IDs: 2458589

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123530

Included Lab Sample IDs: 2458591

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123540

Included Lab Sample IDs: 2458586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	95.2	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123546

Included Lab Sample IDs: 2458589, 2458592, 2458593

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123548

Included Lab Sample IDs: 2458593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	97.8	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		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	98.8				0.195	
	Color (true)	93.5				1.04	
EPA 180.1 Rev. 2.0	Turbidity	104				4.33	
EPA 300.0 Rev. 2.1	Chloride	101	101	102		0.307	
	Chloride	105	104	97.2		1.21	
	Sulfate	101	100	99.1		0.688	
	Sulfate	106	101	98.3		2.00	
EPA 350.1 Rev. 2.0	Ammonia-N	96.2	97.4	97.6			0.173
	Ammonia-N	97.0	97.4	100			2.21
	Ammonia-N	98.6	99.2	101			1.60
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	98.0	107			7.30
EPA 353.2 Rev. 2.0	NO2NO3-N	100	99.0	98.5			0.506
	NO2NO3-N	99.0	97.2	97.0			0.156
EPA 365.1 Rev. 2.0	Total-P	106	108	108			0.784
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.6	98.0	97.6			0.409
EPA 8321B	2,4-D	109	133	110			18.5
	2,4,5-T	93.2	103	85.5			18.8
	Acesulfame K	128	133	133			0.143
	Acetaminophen	56.1	68.8	56.1			20.3
	Acetamiprid	88.2	101	87.0			14.4
	Afidopyropen	73.9	83.4	67.5			21.1
	AMPA	89.1	167	169			1.21
	Bentazon	68.7	61.7	53.3			14.6
	Benzovindiflupyr	80.2	96.5	76.5			23.1
	Carbamazepine	68.4	78.7	65.4			18.4
	Clothianidin	84.2	101	82.6			20.4
	Dinotefuran	96.2	124	100			21.3
	Diuron	68.7	81.2	65.1			22.1
	Endothall	92.7	96.9	93.6			3.48
	Fenuron	94.2	123	119			3.26
	Fluridone	83.4	92.9	75.2			21.1
	Glufosinate	93.8	104	103			1.53
	Glyphosate	91.2	71.1	77.5			8.66
	Hydrocodone	81.6	101	83.3			19.5
	Ibuprofen	60.6	76.1	62.3			20.0
	Imazapyr	81.5	106	83.8			23.7
	Imidacloprid	86.1	118	92.7			24.2
	Linuron	67.2	72.3	60.7			17.5
	Mandestrobin	84.8	101	80.7			22.0
	MCPP	97.1	119	89.7			27.9
	Naproxen	63.3	66.1	60.9			8.19
	Primidone	83.3	102	80.1			23.8
	Pyraclostrobin	73.7	87.9	71.5			20.6
	Silvex	86.9	102	78.2			26.7
	Sucralose	80.7	82.0	77.6			5.52
	Thiamethoxam	86.0	96.1	78.5			20.2
	Tolfenpyrad	45.6	61.1	46.0			28.2
	Triclopyr	107	125	96.5			25.4
SM 2320 B-2011	Total Alkalinity	100				1.33	
SM 2540 C-2015	TDS	93.6				1.75	
SM 2540 D-2015	TSS	106					
SM 4500-F- C-2011	Fluoride	102	102	102			0.473
SM 5310 B-2014	Organic Carbon	97.8	97.9	97.8			0.0224

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2458585, 2458588, 2458590, 2458591
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2458585, 2458588, 2458590, 2458591
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2458585, 2458588, 2458590, 2458591
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2458585, 2458588, 2458590, 2458591
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2458586, 2458589, 2458592, 2458593
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2458586, 2458589, 2458592, 2458593
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2458586, 2458589, 2458592, 2458593
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2458586, 2458589, 2458592, 2458593
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2458587
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2458602
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2458585, 2458588, 2458590, 2458591
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2458585, 2458588, 2458590, 2458591
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2458585, 2458588, 2458590, 2458591
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2458585, 2458588, 2458590, 2458591
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2458586, 2458589, 2458592, 2458593

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	12/22/2023			12/22/2023 16:57	Anna M. Plaviak	2458585
	12/22/2023			12/22/2023 16:58	Anna M. Plaviak	2458588
	12/22/2023			12/22/2023 17:03	Anna M. Plaviak	2458590
	12/22/2023			12/22/2023 17:04	Anna M. Plaviak	2458591
EPA 180.1 Rev. 2.0	12/22/2023			12/22/2023 13:58	Samantha L Bates	2458585
	12/22/2023			12/22/2023 14:00	Samantha L Bates	2458588
	12/22/2023			12/22/2023 14:02	Samantha L Bates	2458590
	12/22/2023			12/22/2023 14:03	Samantha L Bates	2458591
EPA 300.0 Rev. 2.1	12/22/2023			01/05/2024 16:06	James L Waggeberby	2458591
	12/22/2023			12/29/2023 03:16	Anna M. Plaviak	2458588
	12/22/2023			12/29/2023 08:19	Anna M. Plaviak	2458585
	12/22/2023			12/29/2023 08:34	Anna M. Plaviak	2458590
EPA 350.1 Rev. 2.0	12/22/2023			01/04/2024 15:12	Ping Hua	2458586
	12/22/2023			01/04/2024 15:21	Ping Hua	2458592
	12/22/2023			01/05/2024 12:30	Ping Hua	2458589
	12/22/2023			01/08/2024 12:03	Ping Hua	2458593
EPA 351.2 Rev. 2.0	12/22/2023	12/27/2023 11:05	Simonne.V. Calhoun	12/28/2023 16:44	Samantha L Bates	2458586
	12/22/2023	12/27/2023 11:05	Simonne.V. Calhoun	12/28/2023 16:46	Samantha L Bates	2458589
	12/22/2023	12/27/2023 11:05	Simonne.V. Calhoun	12/28/2023 16:51	Samantha L Bates	2458592
	12/22/2023	12/27/2023 11:05	Simonne.V. Calhoun	12/28/2023 16:52	Samantha L Bates	2458593
EPA 353.2 Rev. 2.0	12/22/2023			01/03/2024 13:44	Fadila Guebre	2458589
	12/22/2023			01/03/2024 13:45	Fadila Guebre	2458592
	12/22/2023			01/03/2024 13:47	Fadila Guebre	2458593
	12/22/2023			12/27/2023 12:19	Fadila Guebre	2458586
EPA 365.1 Rev. 2.0	12/22/2023	01/05/2024 13:38	Adam P Silver	01/08/2024 10:59	Chandler E Cox	2458586
	12/22/2023	01/05/2024 13:38	Adam P Silver	01/08/2024 12:28	Chandler E Cox	2458593
	12/22/2023	01/05/2024 13:38	Adam P Silver	01/08/2024 12:29	Chandler E Cox	2458592
	12/22/2023	01/05/2024 13:38	Adam P Silver	01/08/2024 12:33	Chandler E Cox	2458589
EPA 365.1 Rev. 2.0 dissolved	12/22/2023			12/22/2023 15:23	Elise M. Gillis	2458587
EPA 8321B	12/22/2023	12/22/2023 10:50	Hana Lee	12/22/2023 16:37	Hana Lee	2458602
	12/22/2023	12/22/2023 10:50	Hana Lee	12/24/2023 00:20	Hana Lee	2458602
	12/22/2023	12/22/2023 13:00	Hoor Shaik	12/27/2023 22:27	Juyoung Kim	2458602
SM 2320 B-2011	12/22/2023			12/27/2023 21:47	Dale L. Simmons	2458585
	12/22/2023			12/27/2023 21:59	Dale L. Simmons	2458588
	12/22/2023			12/27/2023 22:10	Dale L. Simmons	2458590
	12/22/2023			12/27/2023 22:20	Dale L. Simmons	2458591
SM 2540 C-2015	12/22/2023			12/22/2023 15:26	Yijie Li	2458585, 2458588, 2458590, 2458591
SM 2540 D-2015	12/22/2023			12/22/2023 15:26	Yijie Li	2458585, 2458588, 2458590, 2458591
SM 4500-F- C-2011	12/22/2023			12/27/2023 21:47	Dale L. Simmons	2458585
	12/22/2023			12/27/2023 21:59	Dale L. Simmons	2458588

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	12/22/2023			12/27/2023 22:10	Dale L. Simmons	2458590
	12/22/2023			12/27/2023 22:20	Dale L. Simmons	2458591
SM 5310 B-2014	12/22/2023			01/05/2024 02:29	Kenneth H Lee	2458586
	12/22/2023			01/05/2024 02:43	Kenneth H Lee	2458589
	12/22/2023			01/05/2024 02:57	Kenneth H Lee	2458592
	12/22/2023			01/05/2024 03:11	Kenneth H Lee	2458593