

Chemical Analysis Report

SW-DIST-2023-07-12-01

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

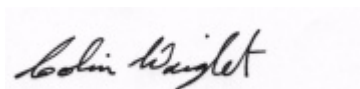
Event Description: **Run 6**
Request ID: **RQ-2023-07-10-05**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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Certified by: Colin Wright, Program Administrator

Date Certified: 28-JUL-2023 10:35

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular background.

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: RECLAIMED MINE CUT LAKE SE

Collection Date/Time: 07/11/2023 09:15

Field ID: G3SW0074

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422818	DEP SOP: NU-094-1	Color (true)	14	A	PCU	P432369	
	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P432379	
	EPA 300.0 Rev. 2.1	Chloride	13	A	mg Cl/L	P432487	
		Sulfate	0.20	UA	mg SO4/L	P432490	
	SM 2320 B-2011	Total Alkalinity	52		mg CaCO3/L	P432714	
	SM 2540 C-2015	TDS	94		mg/L	P432926	
	SM 2540 D-2015	TSS	15	I	mg/L	P432927	
	SM 4500-F- C-2011	Fluoride	1.2		mg F/L	P432496	
2422820	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P432578	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P432729	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432409	
	EPA 365.1 Rev. 2.0	Total-P	0.43		mg P/L	P432609	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P432468	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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.

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: LAKE GARFIELD DRAIN AT SNELL RD

Collection Date/Time: 07/11/2023 09:45

Field ID: G3SW0106

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422814	DEP SOP: NU-094-1	Color (true)	61		PCU	P432368	
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P432379	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P432486	
		Sulfate	20		mg SO4/L	P432489	
	SM 2320 B-2011	Total Alkalinity	17		mg CaCO3/L	P432714	
	SM 2540 C-2015	TDS	94	A	mg/L	P432926	
	SM 2540 D-2015	TSS	3	IA	mg/L	P432927	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P432496	
2422816	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P432578	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.42		mg N/L	P432727	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.54		mg N/L	P432408	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P432609	
	SM 5310 B-2011	Organic Carbon	8.9		mg C/L	P432468	
2422833	EPA 8321B	2,4-D	0.016		ug/L	P432236	
		Acesulfame K	0.10	U	ug/L	P432521	
		2,4,5-T	0.0040	U	ug/L	P432236	
		AMPA	0.10	U	ug/L	P432521	
		Acetaminophen	0.0080	U	ug/L	P432236	
		Acetamiprid	0.0020	U	ug/L	P432236	
		Endothall	0.25	U	ug/L	P432521	
		Glufosinate	0.10	U	ug/L	P432521	
		Glyphosate	0.10	U	ug/L	P432521	
		Afidopyropen	0.0020	U	ug/L	P432236	
		Bentazon	8.0E-04	U	ug/L	P432236	
		Sucralose	0.035	I	ug/L	P432521	
		Benzovindiflupyr	0.0020	U	ug/L	P432236	
		Carbamazepine	8.0E-04	U	ug/L	P432236	
		Clothianidin	0.0020	U	ug/L	P432236	
		Dinotefuran	0.0020	U	ug/L	P432236	
		Diuron	0.0020	U	ug/L	P432236	
		Fenuron	0.032	U	ug/L	P432236	
		Fluridone	8.0E-04	U	ug/L	P432236	
		Imazapyr	0.0051	I	ug/L	P432236	
		Hydrocodone	0.0020	U	ug/L	P432236	
		Ibuprofen	0.080	U	ug/L	P432236	
		Imidacloprid	0.10		ug/L	P432236	
		Linuron	0.0040	U	ug/L	P432236	
		Mandestrobin	0.0020	U	ug/L	P432236	
		MCPP	0.0020	U	ug/L	P432236	
		Naproxen	0.0080	U	ug/L	P432236	
		Primidone	0.0040	U	ug/L	P432236	
		Pyraclostrobin	0.0020	U	ug/L	P432236	
		Silvex	0.0040	U	ug/L	P432236	
		Thiamethoxam	0.0020	U	ug/L	P432236	

MS

Field ID: G3SW0106

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422833	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P432236	
		Triclopyr	0.0040	U	ug/L	P432236	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
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: FB

Collection Date/Time: 07/11/2023 10:00

Field ID: FB_07112023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422815	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P432369	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P432379	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P432487	
		Sulfate	0.20	U	mg SO4/L	P432490	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P432714	
	SM 2540 C-2015	TDS	15	U	mg/L	P432926	
	SM 2540 D-2015	TSS	2	U	mg/L	P432927	
2422817	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P432496	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P432578	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P432727	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432409	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P432609	
2422834	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P432468	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P432236	
		Acesulfame K	0.10	U	ug/L	P432521	
		2,4,5-T	0.0040	U	ug/L	P432236	
		AMPA	0.10	U	ug/L	P432521	
		Acetaminophen	0.0080	U	ug/L	P432236	
		Acetamiprid	0.0020	U	ug/L	P432236	
		Endothall	0.25	U	ug/L	P432521	
		Glufosinate	0.10	U	ug/L	P432521	
		Glyphosate	0.10	U	ug/L	P432521	
		Afidopyropen	0.0020	U	ug/L	P432236	
		Bentazon	8.0E-04	U	ug/L	P432236	
		Sucralose	0.010	U	ug/L	P432521	
		Benzovindiflupyr	0.0020	U	ug/L	P432236	
		Carbamazepine	8.0E-04	U	ug/L	P432236	
		Clothianidin	0.0020	U	ug/L	P432236	
		Dinotefuran	0.0020	U	ug/L	P432236	
		Diuron	0.0020	U	ug/L	P432236	
		Fenuron	0.032	U	ug/L	P432236	
		Fluridone	8.0E-04	U	ug/L	P432236	
		Imazapyr	0.0040	U	ug/L	P432236	
		Hydrocodone	0.0020	U	ug/L	P432236	
		Ibuprofen	0.080	U	ug/L	P432236	
		Imidacloprid	0.0020	U	ug/L	P432236	
		Linuron	0.0040	U	ug/L	P432236	
		Mandestrobin	0.0020	U	ug/L	P432236	
		MCPP	0.0020	U	ug/L	P432236	
		Naproxen	0.0080	U	ug/L	P432236	
		Primidone	0.0040	U	ug/L	P432236	
		Pyraclostrobin	0.0020	U	ug/L	P432236	
		Silvex	0.0040	U	ug/L	P432236	
		Thiamethoxam	0.0020	U	ug/L	P432236	

MS

Field ID: FB_07112023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422834	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P432236	
		Triclopyr	0.0040	U	ug/L	P432236	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
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: LAKE LEONARE AT CENTER

Collection Date/Time: 07/11/2023 11:30

Field ID: G4SW0117

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422819	DEP SOP: NU-094-1	Color (true)	12		PCU	P432372	
	EPA 180.1 Rev. 2.0	Turbidity	17		NTU	P432379	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P432487	
		Sulfate	55		mg SO4/L	P432490	
	SM 2320 B-2011	Total Alkalinity	48	A	mg CaCO3/L	P432714	
	SM 2540 C-2015	TDS	190		mg/L	P432926	
	SM 2540 D-2015	TSS	13		mg/L	P432927	
	SM 4500-F- C-2011	Fluoride	0.079	I	mg F/L	P432496	
2422821	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P432578	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P432729	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P432409	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P432609	
	SM 5310 B-2011	Organic Carbon	6.4		mg C/L	P432468	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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: P432368

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P432369

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P432372

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432379

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432486

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432487

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432489

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432490

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432578

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432727

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432729

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432408

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432409

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432609

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

Reference Method: EPA 8321B
Batch ID: P432236

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P432236

Component	Result	Code	Units
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: EPA 8321B
Batch ID: P432521

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: SM 2320 B-2011
Batch ID: P432714

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

Reference Method: SM 2540 C-2015
Batch ID: P432926

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P432927

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P432496

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P432468

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: P432368

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P432369

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P432372

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432379

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432486

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432487

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432489

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432490

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432578

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.8		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432727

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432729

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432408

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: P432409

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: P432609

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

Reference Method: EPA 8321B
Batch ID: P432236

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	92.7		P	40 - 150
2,4,5-T	87.2		P	40 - 150
Acetaminophen	65.5		P	30 - 150
Acetamiprid	73.2		P	40 - 150
Afidopyropen	54.3		P	30 - 150
Bentazon	121		P	30 - 150
Benzovindiflupyr	75.6		P	40 - 150
Carbamazepine	72.2		P	40 - 150
Clothianidin	87.9		P	40 - 150
Dinotefuran	95.0		P	40 - 150
Diuron	81.8		P	40 - 150
Fenuron	85.3		P	40 - 150
Fluridone	82.7		P	40 - 150
Hydrocodone	89.1		P	40 - 150
Ibuprofen	67.0		P	40 - 150
Imazapyr	76.8		P	40 - 150
Imidacloprid	83.5		P	40 - 150
Linuron	72.1		P	40 - 150
Mandestrobin	88.2		P	40 - 150
MCPP	96.6		P	40 - 150
Naproxen	68.0		P	40 - 150
Primidone	75.6		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P432236

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	68.0		P	40 - 150
Silvex	97.7		P	40 - 150
Thiamethoxam	67.7		P	40 - 150
Tolfenpyrad	42.2		P	30 - 150
Triclopyr	89.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P432521

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	136		P	40 - 150
Endothall	108		P	40 - 150
Glufosinate	102		P	40 - 150
Glyphosate	104		P	40 - 150
Sucralose	92.8		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P432714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P432926

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

Reference Method: SM 2540 D-2015

Batch ID: P432927

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.3		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P432496

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

Reference Method: SM 5310 B-2011

Batch ID: P432468

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432486

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422760	Chloride	100		P	90 - 110
2422803	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432487

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422818	Chloride	101		P	90 - 110
2423168	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422760	Sulfate	98.0		P	90 - 110
2422803	Sulfate	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432490

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422818	Sulfate	99.8		P	90 - 110
2423168	Sulfate	94.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432578

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422821	Ammonia-N	97.0	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432727

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422796	Kjeldahl Nitrogen	98.1	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432729

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423147	Kjeldahl Nitrogen	93.2	89.5	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422796	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432409

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: P432409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422820	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 8321B

Batch ID: P432236

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421664	2,4-D	81.0	89.8	P/P	40 - 150
2421664	2,4,5-T	101	94.0	P/P	40 - 150
2421664	Acetaminophen	66.6	64.0	P/P	30 - 150
2421664	Acetamiprid	62.4	61.8	P/P	40 - 150
2421664	Afidopyropen	62.5	65.2	P/P	30 - 150
2421664	Benzovindiflupyr	77.1	79.8	P/P	40 - 150
2421664	Carbamazepine	50.2	49.1	P/P	40 - 150
2421664	Clothianidin	77.5	75.2	P/P	40 - 150
2421664	Dinotefuran	79.0	73.2	P/P	40 - 150
2421664	Diuron	31.8	34.4	F/F	40 - 150
2421664	Fenuron	65.9	63.8	P/P	40 - 150
2421664	Hydrocodone	65.5	62.3	P/P	40 - 150
2421664	Ibuprofen	66.1	56.4	P/P	40 - 150
2421664	Imidacloprid	110	106	P/P	40 - 150
2421664	Linuron	57.5	54.7	P/P	40 - 150
2421664	Mandestrobin	83.7	81.6	P/P	40 - 150
2421664	MCCP	99.3	103	P/P	40 - 150
2421664	Naproxen	96.0	98.4	P/P	40 - 150
2421664	Primidone	76.2	73.4	P/P	40 - 150
2421664	Pyraclostrobin	80.3	79.6	P/P	40 - 150
2421664	Silvex	88.9	83.2	P/P	40 - 150
2421664	Thiamethoxam	56.7	55.3	P/P	40 - 150
2421664	Tolfenpyrad	48.5	47.3	P/P	30 - 150
2421664	Triclopyr	102	91.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P432521

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422833	Acesulfame K	104	106	P/P	40 - 150
2422833	AMPA	122	123	P/P	40 - 150
2422833	Endothall	102	101	P/P	40 - 150
2422833	Glufosinate	98.5	100	P/P	40 - 150
2422833	Glyphosate	83.8	87.5	P/P	40 - 150
2422833	Sucralose	95.5	87.9	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P432496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422819	Fluoride	104	104	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P432468

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

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P432468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422807	Organic Carbon	94.3	93.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422795	Color (true)	2.89	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P432369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422818	Color (true)	0.993	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P432372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422760	Color (true)	19.1	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422772	Turbidity	8.10	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422760	Chloride	1.23	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422818	Chloride	0.0903	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422821	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432727

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422796	Kjeldahl Nitrogen	2.84	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423147	Kjeldahl Nitrogen	1.99	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422796	NO2NO3-N	0.318	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422820	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422820	Total-P	0.547	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P432236

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421664	2,4-D	6.91	Spike	P	0 - 30
2421664	2,4,5-T	7.63	Spike	P	0 - 30
2421664	Acetaminophen	3.97	Spike	P	0 - 30
2421664	Acetamiprid	0.884	Spike	P	0 - 30
2421664	Afidopyropen	4.14	Spike	P	0 - 30
2421664	Bentazon	10.5	Spike	P	0 - 30
2421664	Benzovindiflupyr	3.42	Spike	P	0 - 30
2421664	Carbamazepine	1.74	Spike	P	0 - 30
2421664	Clothianidin	2.80	Spike	P	0 - 30
2421664	Dinotefuran	6.98	Spike	P	0 - 30
2421664	Diuron	6.69	Spike	P	0 - 30
2421664	Fenuron	3.32	Spike	P	0 - 30
2421664	Fluridone	3.71	Spike	P	0 - 30
2421664	Hydrocodone	5.12	Spike	P	0 - 30
2421664	Ibuprofen	15.8	Spike	P	0 - 30
2421664	Imazapyr	4.16	Spike	P	0 - 30
2421664	Imidacloprid	3.58	Spike	P	0 - 30
2421664	Linuron	4.93	Spike	P	0 - 30
2421664	Mandestrobin	2.53	Spike	P	0 - 30
2421664	MCP	3.44	Spike	P	0 - 30
2421664	Naproxen	2.47	Spike	P	0 - 30
2421664	Primidone	3.28	Spike	P	0 - 30
2421664	Pyraclostrobin	0.854	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P432236

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421664	Silvex	6.71	Spike	P	0 - 30
2421664	Thiamethoxam	2.02	Spike	P	0 - 30
2421664	Tolfenpyrad	2.54	Spike	P	0 - 30
2421664	Triclopyr	10.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P432521

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422833	Acesulfame K	2.31	Spike	P	0 - 30
2422833	AMPA	0.438	Spike	P	0 - 30
2422833	Endothall	0.412	Spike	P	0 - 30
2422833	Glufosinate	1.81	Spike	P	0 - 30
2422833	Glyphosate	4.34	Spike	P	0 - 30
2422833	Sucralose	8.23	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P432714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422819	Total Alkalinity	0.0853	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P432926

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422814	TDS	6.38	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P432496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422819	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432468

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422807	Organic Carbon	0.821	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2422833

Field Sample ID: G3SW0106

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	84.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	67.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	59.1	P	30 - 160
EPA 8321B	Diuron-d6	62.5	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.8	P	30 - 160
EPA 8321B	Primidone-d5	74.6	P	30 - 160
EPA 8321B	Sucralose-d6	98.5	P	30 - 160

Lab Sample ID: 2422834

Field Sample ID: FB_07112023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	79.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	65.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.0	P	30 - 160
EPA 8321B	Diuron-d6	61.9	P	30 - 160
EPA 8321B	Endothall-d6	99.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.5	P	30 - 160
EPA 8321B	Primidone-d5	75.9	P	30 - 160
EPA 8321B	Sucralose-d6	89.6	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120300

Included Lab Sample IDs: 2422814, 2422815, 2422818, 2422819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	102	P/P	90 - 110
Chloride	103	102	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110
Sulfate	101	100	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A120325

Included Lab Sample IDs: 2422814, 2422815, 2422818, 2422819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	100	P/P	90 - 110
Color (true)	102	103	P/P	90 - 110
Color (true)	99.9	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120327

Included Lab Sample IDs: 2422814, 2422815, 2422818, 2422819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120346

Included Lab Sample IDs: 2422816, 2422817, 2422820, 2422821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	105	P/P	90 - 110
NO2NO3-N	104	104	P/P	90 - 110
NO2NO3-N	106	105	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A120371

Included Lab Sample IDs: 2422816, 2422817, 2422820, 2422821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	97.1	P/P	90 - 110
Organic Carbon	96.8	97.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120384

Included Lab Sample IDs: 2422814, 2422815, 2422818, 2422819

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

Reference Method: EPA 8321B

Run ID: A120416

Included Lab Sample IDs: 2422833, 2422834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A120416

Included Lab Sample IDs: 2422833, 2422834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	96.7	98.8	P/P	60 - 160
Endothall	105	97.4	P/P	60 - 160
Glufosinate	96.9	97.8	P/P	60 - 160
Glyphosate	106	99.7	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A120424

Included Lab Sample IDs: 2422833, 2422834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	96.3	95.6	P/P	60 - 160
Sucralose	91.7	88.7	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120431

Included Lab Sample IDs: 2422816, 2422817, 2422820, 2422821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	98.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A120445

Included Lab Sample IDs: 2422833, 2422834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.3	91.7	P/P	50 - 150
2,4,5-T	92.3	92.7	P/P	50 - 150
Acetaminophen	87.0	84.8	P/P	60 - 160
Acetamiprid	105	116	P/P	50 - 150
Afidopyropen	130	119	P/P	50 - 150
Bentazon	121	130	P/P	50 - 160
Benzovindiflupyr	108	116	P/P	50 - 150
Carbamazepine	115	117	P/P	60 - 150
Clothianidin	111	97.8	P/P	60 - 150
Dinotefuran	121	113	P/P	50 - 150
Diuron	132	120	P/P	60 - 160
Fenuron	110	109	P/P	60 - 150
Fluridone	118	110	P/P	60 - 160
Hydrocodone	116	115	P/P	60 - 150
Ibuprofen	113	88.2	P/P	50 - 160
Imazapyr	96.8	93.0	P/P	50 - 150
Imidacloprid	105	103	P/P	60 - 150
Linuron	107	112	P/P	60 - 150
Mandestrobin	111	114	P/P	50 - 150
MCPP	101	92.8	P/P	50 - 150
Naproxen	129	109	P/P	50 - 160
Primidone	100	106	P/P	60 - 150
Pyraclostrobin	117	118	P/P	60 - 150
Silvex	103	104	P/P	50 - 150
Thiamethoxam	94.7	93.0	P/P	50 - 150
Tolfenpyrad	108	106	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A120445

Included Lab Sample IDs: 2422833, 2422834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Triclopyr	112	90.0	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120487

Included Lab Sample IDs: 2422820

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120493

Included Lab Sample IDs: 2422816, 2422817, 2422821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	97.8	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A120497

Included Lab Sample IDs: 2422814, 2422815, 2422818, 2422819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.5	95.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120587

Included Lab Sample IDs: 2422816, 2422817, 2422820, 2422821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	102	P/P	90 - 110
Kjeldahl Nitrogen	103	104	P/P	90 - 110
Kjeldahl Nitrogen	104	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		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	101				2.89	
	Color (true)	101				0.993	
	Color (true)	103				19.1	
EPA 180.1 Rev. 2.0	Turbidity	100				8.10	
EPA 300.0 Rev. 2.1	Chloride	102	100	102		1.23	
	Chloride	103	101	102		0.0903	
	Sulfate	97.6	98.0	98.1			
	Sulfate	98.9	99.8	94.6			
EPA 350.1 Rev. 2.0	Ammonia-N	94.8	97.0	97.0			0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.9	98.1	102			2.84
	Kjeldahl Nitrogen	93.5	93.2	89.5			1.99
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104			0.318
	NO2NO3-N	104	106	106			0.0
EPA 365.1 Rev. 2.0	Total-P	104					0.547
EPA 8321B	2,4-D	92.7	81.0	89.8			6.91
	2,4,5-T	87.2	101	94.0			7.63
	Acesulfame K	106	104	106			2.31
	Acetaminophen	65.5	66.6	64.0			3.97
	Acetamiprid	73.2	62.4	61.8			0.884
	Afidopyropen	54.3	62.5	65.2			4.14
	AMPA	136	122	123			0.438
	Bentazon	121					10.5
	Benzovindiflupyr	75.6	77.1	79.8			3.42
	Carbamazepine	72.2	50.2	49.1			1.74
	Clothianidin	87.9	77.5	75.2			2.80
	Dinotefuran	95.0	79.0	73.2			6.98
	Diuron	81.8	31.8	34.4			6.69
	Endothall	108	102	101			0.412
	Fenuron	85.3	65.9	63.8			3.32
	Fluridone	82.7					3.71
	Glufosinate	102	98.5	100			1.81
	Glyphosate	104	83.8	87.5			4.34
	Hydrocodone	89.1	65.5	62.3			5.12
	Ibuprofen	67.0	66.1	56.4			15.8
	Imazapyr	76.8					4.16
	Imidacloprid	83.5	110	106			3.58
	Linuron	72.1	57.5	54.7			4.93
	Mandestrobin	88.2	83.7	81.6			2.53
	MCPP	96.6	99.3	103			3.44
	Naproxen	68.0	96.0	98.4			2.47
	Primidone	75.6	76.2	73.4			3.28
	Pyraclostrobin	68.0	80.3	79.6			0.854
	Silvex	97.7	88.9	83.2			6.71
	Sucralose	92.8	95.5	87.9			8.23
	Thiamethoxam	67.7	56.7	55.3			2.02
	Tolfenpyrad	42.2	48.5	47.3			2.54
	Triclopyr	89.6	102	91.5			10.5
SM 2320 B-2011	Total Alkalinity	97.0				0.0853	
SM 2540 C-2015	TDS	96.0				6.38	
SM 2540 D-2015	TSS	93.3					
SM 4500-F- C-2011	Fluoride	102	104	104			0.0
SM 5310 B-2011	Organic Carbon	94.6	94.3	93.4			0.821

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2422814, 2422815, 2422818, 2422819
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2422814, 2422815, 2422818, 2422819
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2422814, 2422815, 2422818, 2422819
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2422814, 2422815, 2422818, 2422819
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2422816, 2422817, 2422820, 2422821
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2422816, 2422817, 2422820, 2422821
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2422816, 2422817, 2422820, 2422821
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2422816, 2422817, 2422820, 2422821
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2422833, 2422834
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2422814, 2422815, 2422818, 2422819
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2422814, 2422815, 2422818, 2422819
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2422814, 2422815, 2422818, 2422819
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2422814, 2422815, 2422818, 2422819
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2422816, 2422817, 2422820, 2422821

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	07/12/2023			07/12/2023 14:51	Alexis Price	2422814
	07/12/2023			07/12/2023 14:55	Alexis Price	2422815
	07/12/2023			07/12/2023 14:57	Alexis Price	2422818
	07/12/2023			07/12/2023 15:31	Alexis Price	2422819
EPA 180.1 Rev. 2.0	07/12/2023			07/12/2023 12:53	Alexis Price	2422814
	07/12/2023			07/12/2023 12:54	Alexis Price	2422815
	07/12/2023			07/12/2023 12:55	Alexis Price	2422818
	07/12/2023			07/12/2023 12:56	Alexis Price	2422819
EPA 300.0 Rev. 2.1	07/12/2023			07/14/2023 01:11	James L Waggeberby	2422814
	07/12/2023			07/14/2023 02:57	James L Waggeberby	2422818
	07/12/2023			07/14/2023 03:57	James L Waggeberby	2422815
	07/12/2023			07/14/2023 04:12	James L Waggeberby	2422819
EPA 350.1 Rev. 2.0	07/12/2023			07/17/2023 13:42	Ping Hua	2422821
	07/12/2023			07/17/2023 13:50	Ping Hua	2422816
	07/12/2023			07/17/2023 13:51	Ping Hua	2422817
	07/12/2023			07/17/2023 13:52	Ping Hua	2422820
EPA 351.2 Rev. 2.0	07/12/2023	07/20/2023 13:30	Samantha L Bates	07/24/2023 15:09	Samantha L Bates	2422816
	07/12/2023	07/20/2023 13:30	Samantha L Bates	07/24/2023 15:11	Samantha L Bates	2422817
	07/12/2023	07/20/2023 13:30	Samantha L Bates	07/24/2023 15:38	Samantha L Bates	2422820
	07/12/2023	07/20/2023 13:30	Samantha L Bates	07/24/2023 15:43	Samantha L Bates	2422821
EPA 353.2 Rev. 2.0	07/12/2023			07/13/2023 10:55	Beverly Y. Sanders	2422816
	07/12/2023			07/13/2023 11:02	Beverly Y. Sanders	2422820
	07/12/2023			07/13/2023 11:15	Beverly Y. Sanders	2422821
	07/12/2023			07/13/2023 11:48	Beverly Y. Sanders	2422817
EPA 365.1 Rev. 2.0	07/12/2023	07/18/2023 13:58	Alexis Price	07/19/2023 12:35	Simonne.V. Calhoun	2422820
	07/12/2023	07/18/2023 13:58	Alexis Price	07/19/2023 13:56	Simonne.V. Calhoun	2422817
	07/12/2023	07/18/2023 13:58	Alexis Price	07/19/2023 13:59	Simonne.V. Calhoun	2422816
	07/12/2023	07/18/2023 13:58	Alexis Price	07/19/2023 14:00	Simonne.V. Calhoun	2422821
EPA 8321B	07/12/2023	07/12/2023 13:00	Hoor Shaik	07/18/2023 00:08	Juyoung Kim	2422833
	07/12/2023	07/12/2023 13:00	Hoor Shaik	07/18/2023 00:26	Juyoung Kim	2422834
	07/12/2023	07/15/2023 10:00	Hana Lee	07/15/2023 15:38	Tae K Lee	2422833
	07/12/2023	07/15/2023 10:00	Hana Lee	07/15/2023 15:51	Tae K Lee	2422834
	07/12/2023	07/15/2023 10:00	Hana Lee	07/16/2023 16:35	Tae K Lee	2422833
	07/12/2023	07/15/2023 10:00	Hana Lee	07/16/2023 16:49	Tae K Lee	2422834
SM 2320 B-2011	07/12/2023			07/18/2023 14:56	Dale L. Simmons	2422819
	07/12/2023			07/18/2023 16:06	Dale L. Simmons	2422814
	07/12/2023			07/18/2023 16:12	Dale L. Simmons	2422815
	07/12/2023			07/18/2023 16:23	Dale L. Simmons	2422818
SM 2540 C-2015	07/12/2023			07/17/2023 15:46	Yijie Li	2422814, 2422815, 2422818, 2422819
SM 2540 D-2015	07/12/2023			07/17/2023 15:46	Yijie Li	2422814, 2422815, 2422818, 2422819

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	07/12/2023			07/14/2023 05:10	Dale L. Simmons	2422819
	07/12/2023			07/14/2023 07:54	Dale L. Simmons	2422814
	07/12/2023			07/14/2023 08:03	Dale L. Simmons	2422815
	07/12/2023			07/14/2023 08:16	Dale L. Simmons	2422818
SM 5310 B-2011	07/12/2023			07/13/2023 19:16	Elise M. Gillis	2422820
	07/12/2023			07/14/2023 00:15	Elise M. Gillis	2422816
	07/12/2023			07/14/2023 00:32	Elise M. Gillis	2422817
	07/12/2023			07/14/2023 00:45	Elise M. Gillis	2422821