

Chemical Analysis Report

SO-DIST-2024-04-11-01

Florida DEP Laboratory
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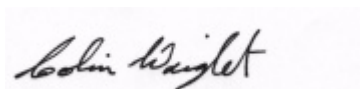
Event Description: **2024 SMP : El Jobean**
Request ID: **RQ-2024-04-08-49**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
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Certified by: Colin Wright, Program Administrator

Date Certified: 07-MAY-2024 10:51



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: SAMKNIGHT CREEK TRIB EAST

Collection Date/Time: 04/10/2024 09:30

Field ID: G3SD0247

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2481614	DEP SOP: NU-094-1	Color (true)	28		PCU	P444135	
	EPA 180.1 Rev. 2.0	Turbidity	0.80	I	NTU	P444132	
	EPA 300.0 Rev. 2.1	Chloride	4.1E+03		mg Cl/L	P444497	
		Sulfate	650		mg SO4/L	P444500	
	SM 2320 B-2011	Total Alkalinity	234	A	mg CaCO3/L	P444418	
	SM 2540 C-2015	TDS	7.15E+03		mg/L	P444739	
	SM 2540 D-2015	TSS	3	I	mg/L	P444696	
	SM 4500-F- C-2011	Fluoride	0.61		mg F/L	P444422	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P444258	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P444272	
2481616	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P444300	
	EPA 365.1 Rev. 2.0	Total-P	0.095		mg P/L	P444309	
	SM 5310 B-2014	Organic Carbon	8.8		mg C/L	P444365	

Sample Location: SAMKNIGHT CREEK TRIB WEST

Collection Date/Time: 04/10/2024 09:45

Field ID: G3SD0246

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2481615	DEP SOP: NU-094-1	Color (true)	34		PCU	P444135	
	EPA 180.1 Rev. 2.0	Turbidity	0.75	I	NTU	P444132	
	EPA 300.0 Rev. 2.1	Chloride	6.6E+03		mg Cl/L	P444497	
		Sulfate	990		mg SO4/L	P444500	
	SM 2320 B-2011	Total Alkalinity	182		mg CaCO3/L	P444418	
	SM 2540 C-2015	TDS	1.13E+04		mg/L	P444739	
	SM 2540 D-2015	TSS	7	IA	mg/L	P444698	
	SM 4500-F- C-2011	Fluoride	0.75		mg F/L	P444422	
2481617	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P444258	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.58		mg N/L	P444272	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P444300	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P444309	
	SM 5310 B-2014	Organic Carbon	10		mg C/L	P444903	

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: MYAKKA RIVER EAST

Collection Date/Time: 04/10/2024 10:50

Field ID: G3SD0220

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2481620	DEP SOP: NU-094-1	Color (true)	58		PCU	P444135	
	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P444132	
	EPA 300.0 Rev. 2.1	Chloride	5.0E+03		mg Cl/L	P444497	
		Sulfate	820		mg SO4/L	P444500	
	SM 2320 B-2011	Total Alkalinity	110		mg CaCO3/L	P444418	
	SM 2540 C-2015	TDS	9.07E+03		mg/L	P444739	
	SM 2540 D-2015	TSS	7	I	mg/L	P444698	
	SM 4500-F- C-2011	Fluoride	0.62		mg F/L	P444422	
2481621	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P444359	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P444272	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P444300	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P444309	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P444368	
2481638	EPA 8321B	Acesulfame K	0.10	U	ug/L	P444142	
		2,4-D	0.0085		ug/L	P443976	MS
		2,4,5-T	0.0040	U	ug/L	P443976	
		AMPA	1.0	U	ug/L	P444142	
		Acetaminophen	0.0080	U	ug/L	P443976	
		Acetamiprid	0.0020	U	ug/L	P443976	
		Endothall	0.25	U	ug/L	P444142	
		Glufosinate	1.0	U	ug/L	P444142	
		Glyphosate	1.0	U	ug/L	P444142	MS
		Afidopyropen	0.0020	U	ug/L	P443976	
		Bentazon	0.014		ug/L	P443976	
		Sucralose	0.22		ug/L	P444142	
		Benzovindiflupyr	0.0020	U	ug/L	P443976	
		Carbamazepine	8.0E-04	U	ug/L	P443976	
		Clothianidin	0.0020	U	ug/L	P443976	
		Dinotefuran	0.0049	I	ug/L	P443976	
		Diuron	0.0020	U	ug/L	P443976	
		Fenuron	0.032	U	ug/L	P443976	
		Fluridone	0.0051		ug/L	P443976	
		Imazapyr	0.048		ug/L	P443976	
		Hydrocodone	0.0020	U	ug/L	P443976	
		Ibuprofen	0.080	U	ug/L	P443976	
		Imidacloprid	0.0032	I	ug/L	P443976	
		Linuron	0.0040	U	ug/L	P443976	
		Mandestrobin	0.0020	U	ug/L	P443976	
		MCP	0.0020	U	ug/L	P443976	
		Naproxen	0.0080	U	ug/L	P443976	
		Primidone	0.0040	U	ug/L	P443976	
		Pyraclostrobin	0.0020	U	ug/L	P443976	
		Silvex	0.0040	U	ug/L	P443976	
		Thiamethoxam	0.0020	U	ug/L	P443976	

Field ID: G3SD0220

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2481638	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P443976	
		Triclopyr	0.0040	U	ug/L	P443976	

Ref. Method and Comment:

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

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

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

Sample Location: MYAKKA CUTOFF (WESTERN PORTION)

Collection Date/Time: 04/10/2024 12:15

Field ID: G3SD0073

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2481618	DEP SOP: NU-094-1	Color (true)	25		PCU	P444135	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P444132	
	EPA 300.0 Rev. 2.1	Chloride	1.2E+04		mg Cl/L	P444497	
		Sulfate	1.8E+03		mg SO4/L	P444500	
	SM 2320 B-2011	Total Alkalinity	116		mg CaCO3/L	P444418	
	SM 2540 C-2015	TDS	2.02E+04		mg/L	P444739	
	SM 2540 D-2015	TSS	6	I	mg/L	P444698	
	SM 4500-F- C-2011	Fluoride	0.94		mg F/L	P444422	
2481619	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P444359	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P444272	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P444300	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P444309	
	SM 5310 B-2014	Organic Carbon	9.6		mg C/L	P444592	

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: FLAMINGO WATERWAY EAST

Collection Date/Time: 04/10/2024 13:00

Field ID: G3SD0248

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2481622	DEP SOP: NU-094-1	Color (true)	32	A	PCU	P444135	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P444132	
	EPA 300.0 Rev. 2.1	Chloride	4.6E+03		mg Cl/L	P444497	
		Sulfate	720		mg SO4/L	P444500	
	SM 2320 B-2011	Total Alkalinity	226		mg CaCO3/L	P444418	
	SM 2540 C-2015	TDS	7.98E+03		mg/L	P444739	
	SM 2540 D-2015	TSS	6	I	mg/L	P444698	
	SM 4500-F- C-2011	Fluoride	0.66		mg F/L	P444422	
2481623	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P444359	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.94		mg N/L	P444272	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P444300	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P444309	
	SM 5310 B-2014	Organic Carbon	10		mg C/L	P444903	
2481639	EPA 8321B	Acesulfame K	0.10	U	ug/L	P444142	
		2,4-D	0.0053	I	ug/L	P443976	MS
		2,4,5-T	0.0040	U	ug/L	P443976	
		AMPA	1.0	U	ug/L	P444142	
		Acetaminophen	0.012	I	ug/L	P443976	
		Acetamiprid	0.0020	U	ug/L	P443976	
		Endothall	0.25	U	ug/L	P444142	
		Glufosinate	1.0	U	ug/L	P444142	
		Glyphosate	1.0	U	ug/L	P444142	MS
		Afidopyropen	0.0020	U	ug/L	P443976	
		Bentazon	0.0091		ug/L	P443976	
		Sucralose	0.50		ug/L	P444142	
		Benzovindiflupyr	0.0020	U	ug/L	P443976	
		Carbamazepine	8.0E-04	U	ug/L	P443976	
		Clothianidin	0.0020	U	ug/L	P443976	
		Dinotefuran	0.0020	U	ug/L	P443976	
		Diuron	0.0020	U	ug/L	P443976	
		Fenuron	0.032	U	ug/L	P443976	
		Fluridone	0.026		ug/L	P443976	
		Imazapyr	0.047		ug/L	P443976	
		Hydrocodone	0.0020	U	ug/L	P443976	
		Ibuprofen	0.080	U	ug/L	P443976	
		Imidacloprid	0.0020	U	ug/L	P443976	
		Linuron	0.0040	U	ug/L	P443976	
		Mandestrobin	0.0020	U	ug/L	P443976	
		MCPP	0.0020	U	ug/L	P443976	
		Naproxen	0.0080	U	ug/L	P443976	
		Primidone	0.0042	I	ug/L	P443976	
		Pyraclostrobin	0.0020	U	ug/L	P443976	
		Silvex	0.0040	U	ug/L	P443976	
		Thiamethoxam	0.0020	U	ug/L	P443976	

Field ID: G3SD0248

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2481639	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P443976	
		Triclopyr	0.0040	U	ug/L	P443976	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P444135

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444132

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444497

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444500

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444258

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444359

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444272

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P444300

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444309

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P443976

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: EPA 8321B

Batch ID: P444142

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: P444418

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

Reference Method: SM 2540 C-2015

Batch ID: P444739

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P444696

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P444698

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P444422

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P444365

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

Reference Method: SM 5310 B-2014
Batch ID: P444368

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

Reference Method: SM 5310 B-2014
Batch ID: P444592

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

Reference Method: SM 5310 B-2014
Batch ID: P444903

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: P444135

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	95.2		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444132

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444497

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444500

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444258

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444359

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444272

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P444300

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444309

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: P443976

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	123		P	40 - 150
2,4,5-T	110		P	40 - 150
Acetaminophen	85.6		P	30 - 150
Acetamiprid	91.2		P	40 - 150
Afidopyropen	78.5		P	30 - 150
Bentazon	94.4		P	30 - 150
Benzovindiflupyr	90.8		P	40 - 150
Carbamazepine	80.8		P	40 - 150
Clothianidin	100		P	40 - 150
Dinotefuran	103		P	40 - 150
Diuron	74.3		P	40 - 150
Fenuron	99.7		P	40 - 150
Fluridone	101		P	40 - 150
Hydrocodone	101		P	40 - 150
Ibuprofen	79.4		P	40 - 150
Imazapyr	104		P	40 - 150
Imidacloprid	103		P	40 - 150
Linuron	83.8		P	40 - 150
Mandestrobin	96.5		P	40 - 150
MCPP	133		P	40 - 150
Naproxen	84.3		P	40 - 150
Primidone	87.9		P	40 - 150
Pyraclostrobin	87.7		P	40 - 150
Silvex	98.7		P	40 - 150
Thiamethoxam	101		P	40 - 150
Tolfenpyrad	57.2		P	30 - 150
Triclopyr	107		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P444142

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	109		P	40 - 150
Endothall	93.6		P	40 - 150
Glufosinate	94.2		P	40 - 150
Glyphosate	95.0		P	40 - 150
Sucralose	95.2		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P444418

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P444739

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	104		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P444696

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

Reference Method: SM 2540 D-2015
Batch ID: P444698

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	103		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P444422

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

Reference Method: SM 5310 B-2014
Batch ID: P444365

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

Reference Method: SM 5310 B-2014
Batch ID: P444368

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

Reference Method: SM 5310 B-2014
Batch ID: P444592

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

Reference Method: SM 5310 B-2014
Batch ID: P444903

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444497

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481573	Chloride	104		P	90 - 110
2481576	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444500

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481573	Sulfate	103		P	90 - 110
2481576	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444258

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481081	Ammonia-N	98.4	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481311	Ammonia-N	97.0	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444272

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481318	Kjeldahl Nitrogen	104	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P444300

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481616	NO2NO3-N	97.6	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444309

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481319	Total-P	101	102	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P443976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2480731	2,4-D	157	147	F/P	40 - 150
2480731	2,4,5-T	114	95.4	P/P	40 - 150
2480731	Acetaminophen	108	95.5	P/P	30 - 150
2480731	Acetamiprid	85.6	79.3	P/P	40 - 150
2480731	Afidopyropen	72.4	64.5	P/P	30 - 150
2480731	Benzovindiflupyr	86.1	81.2	P/P	40 - 150
2480731	Carbamazepine	61.2	51.6	P/P	40 - 150
2480731	Clothianidin	93.3	90.0	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P443976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2480731	Dinotefuran	109	97.5	P/P	40 - 150
2480731	Diuron	50.1	45.9	P/P	40 - 150
2480731	Fenuron	79.9	74.0	P/P	40 - 150
2480731	Hydrocodone	94.1	84.4	P/P	40 - 150
2480731	Ibuprofen	89.7	76.0	P/P	40 - 150
2480731	Imazapyr	143	123	P/P	40 - 150
2480731	Imidacloprid	142	130	P/P	40 - 150
2480731	Linuron	76.2	64.2	P/P	40 - 150
2480731	Mandestrobin	93.4	82.7	P/P	40 - 150
2480731	MCPP	150	145	P/P	40 - 150
2480731	Naproxen	84.9	81.2	P/P	40 - 150
2480731	Primidone	108	94.6	P/P	40 - 150
2480731	Pyraclostrobin	88.7	83.1	P/P	40 - 150
2480731	Silvex	99.2	102	P/P	40 - 150
2480731	Thiamethoxam	92.1	85.0	P/P	40 - 150
2480731	Tolfenpyrad	73.4	58.8	P/P	30 - 150
2480731	Triclopyr	115	99.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P444142

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481820	Acesulfame K	137	146	P/P	40 - 150
2481820	AMPA	87.2	89.5	P/P	40 - 150
2481820	Endothall	121	130	P/P	40 - 150
2481820	Glufosinate	96.4	110	P/P	40 - 150
2481820	Glyphosate	142	160	P/F	40 - 150
2481820	Sucralose	103	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P444422

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481614	Fluoride	105	105	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P444365

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481549	Organic Carbon	98.2	100	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P444368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481617	Organic Carbon	90.6	91.1	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P444592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2479363	Organic Carbon	93.4	93.3	P/P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P444903

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481623	Organic Carbon	94.9	95.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P444135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481622	Color (true)	0.419	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444132

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481547	Turbidity	9.89	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481573	Chloride	0.350	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444500

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481573	Sulfate	0.00372	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444258

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481081	Ammonia-N	1.36	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481311	Ammonia-N	1.71	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481318	Kjeldahl Nitrogen	1.82	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P444300

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481616	NO2NO3-N	0.944	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481319	Total-P	0.525	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P443976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2480731	2,4-D	6.11	Spike	P	0 - 30
2480731	2,4,5-T	17.9	Spike	P	0 - 30
2480731	Acetaminophen	12.5	Spike	P	0 - 30
2480731	Acetamiprid	7.73	Spike	P	0 - 30
2480731	Afidopyropen	11.6	Spike	P	0 - 30
2480731	Bentazon	1.66	Spike	P	0 - 30
2480731	Benzovindiflupyr	5.91	Spike	P	0 - 30
2480731	Carbamazepine	12.3	Spike	P	0 - 30
2480731	Clothianidin	3.54	Spike	P	0 - 30
2480731	Dinotefuran	11.5	Spike	P	0 - 30
2480731	Diuron	8.68	Spike	P	0 - 30
2480731	Fenuron	7.61	Spike	P	0 - 30
2480731	Fluridone	10.4	Spike	P	0 - 30
2480731	Hydrocodone	10.8	Spike	P	0 - 30
2480731	Ibuprofen	16.4	Spike	P	0 - 30
2480731	Imazapyr	9.95	Spike	P	0 - 30
2480731	Imidacloprid	8.82	Spike	P	0 - 30
2480731	Linuron	17.1	Spike	P	0 - 30
2480731	Mandestrobin	12.1	Spike	P	0 - 30
2480731	MCP	3.34	Spike	P	0 - 30
2480731	Naproxen	4.50	Spike	P	0 - 30
2480731	Primidone	12.0	Spike	P	0 - 30
2480731	Pyraclostrobin	6.49	Spike	P	0 - 30
2480731	Silvex	3.19	Spike	P	0 - 30
2480731	Thiamethoxam	7.96	Spike	P	0 - 30
2480731	Tolfenpyrad	22.1	Spike	P	0 - 30
2480731	Triclopyr	14.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P444142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481820	Acesulfame K	6.62	Spike	P	0 - 30
2481820	AMPA	1.95	Spike	P	0 - 30
2481820	Endothall	6.54	Spike	P	0 - 30
2481820	Glufosinate	13.5	Spike	P	0 - 30
2481820	Glyphosate	7.46	Spike	P	0 - 30
2481820	Sucralose	0.0731	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P444418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481614	Total Alkalinity	1.51	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P444739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481647	TDS	4.22	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P444696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481647	TSS	7.51	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P444422

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481614	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P444365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481549	Organic Carbon	2.01	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P444368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481617	Organic Carbon	0.434	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P444592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2479363	Organic Carbon	0.102	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P444903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481623	Organic Carbon	0.496	Spike	P	0 - 15

Quality Assurance Report Precision

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

Quality Assurance Report Surrogates

Lab Sample ID: 2481638
Field Sample ID: G3SD0220

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	60.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	66.8	P	30 - 160
EPA 8321B	Diuron-d6	52.9	P	30 - 160
EPA 8321B	Endothall-d6	125	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	116	P	30 - 160
EPA 8321B	Ibuprofen-d3	97.5	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	50.7	P	30 - 160

Lab Sample ID: 2481639
Field Sample ID: G3SD0248

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	59.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	66.9	P	30 - 160
EPA 8321B	Diuron-d6	59.1	P	30 - 160
EPA 8321B	Endothall-d6	130	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	123	P	30 - 160
EPA 8321B	Ibuprofen-d3	91.6	P	30 - 160
EPA 8321B	Primidone-d5	99.2	P	30 - 160
EPA 8321B	Sucralose-d6	67.9	P	30 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A125288
Included Lab Sample IDs: 2481614, 2481615, 2481618, 2481620, 2481622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A125289
Included Lab Sample IDs: 2481614, 2481615, 2481618, 2481620, 2481622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.5	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A125326
Included Lab Sample IDs: 2481616, 2481617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	98.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A125335
Included Lab Sample IDs: 2481616, 2481617, 2481619, 2481621, 2481623

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A125342
Included Lab Sample IDs: 2481614, 2481615, 2481618, 2481620, 2481622

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

Reference Method: EPA 8321B
Run ID: A125347
Included Lab Sample IDs: 2481638, 2481639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	118	104	P/P	50 - 150
2,4,5-T	115	103	P/P	50 - 150
Acetaminophen	115	104	P/P	60 - 160
Acetamiprid	114	105	P/P	50 - 150
Afidopyropen	106	104	P/P	50 - 150
Bentazon	114	101	P/P	50 - 160
Benzovindiflupyr	111	114	P/P	50 - 150
Carbamazepine	107	106	P/P	60 - 150
Clothianidin	108	112	P/P	60 - 150
Dinotefuran	108	107	P/P	50 - 150
Diuron	111	111	P/P	60 - 160
Fenuron	104	101	P/P	60 - 150
Fluridone	117	117	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A125347

Included Lab Sample IDs: 2481638, 2481639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hydrocodone	106	111	P/P	60 - 150
Ibuprofen	136	122	P/P	50 - 160
Imazapyr	101	105	P/P	50 - 150
Imidacloprid	110	110	P/P	60 - 150
Linuron	102	103	P/P	60 - 150
Mandestrobin	114	113	P/P	50 - 150
MCPP	125	111	P/P	50 - 150
Naproxen	140	83.3	P/P	50 - 160
Primidone	97.5	97.2	P/P	60 - 150
Pyraclostrobin	114	111	P/P	60 - 150
Silvex	109	92.7	P/P	50 - 150
Thiamethoxam	109	109	P/P	50 - 150
Tolfenpyrad	106	109	P/P	60 - 150
Triclopyr	111	108	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A125350

Included Lab Sample IDs: 2481619, 2481621

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A125353

Included Lab Sample IDs: 2481616, 2481617, 2481623

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A125358

Included Lab Sample IDs: 2481619, 2481621, 2481623

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

Reference Method: SM 5310 B-2014

Run ID: A125360

Included Lab Sample IDs: 2481616, 2481621

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	99.7	P/P	85 - 115
Organic Carbon	98.8	101	P/P	85 - 115

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A125378

Included Lab Sample IDs: 2481616, 2481617, 2481619, 2481621, 2481623

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A125379

Included Lab Sample IDs: 2481614, 2481615, 2481618, 2481620, 2481622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	95.3	P/P	90 - 110
Total Alkalinity	95.3	96.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A125379

Included Lab Sample IDs: 2481614, 2481615, 2481618, 2481620, 2481622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	105	P/P	90 - 110
Fluoride	104	102	P/P	90 - 110

Reference Method: SM 5310 B-2014

Run ID: A125441

Included Lab Sample IDs: 2481619

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	121	98.0	P/P	70 - 130

Reference Method: EPA 8321B

Run ID: A125447

Included Lab Sample IDs: 2481638, 2481639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	104	136	P/P	60 - 160
Sucralose	101	103	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A125452

Included Lab Sample IDs: 2481638, 2481639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	83.9	97.4	P/P	60 - 160
Endothall	95.2	109	P/P	60 - 160
Glufosinate	103	96.0	P/P	60 - 160
Glyphosate	103	89.6	P/P	60 - 160

Reference Method: SM 5310 B-2014

Run ID: A125569

Included Lab Sample IDs: 2481617, 2481623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	124	97.6	P/P	70 - 130

* 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)	95.2				0.419	
EPA 180.1 Rev. 2.0	Turbidity	103				9.89	
EPA 300.0 Rev. 2.1	Chloride	106	104	103		0.350	
	Sulfate	107	103	104		0.0037	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	98.4	100			1.36
	Ammonia-N	97.0	99.2	97.0			1.71
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	104	102			1.82
EPA 353.2 Rev. 2.0	NO2NO3-N	101	97.6	98.6			0.944
EPA 365.1 Rev. 2.0	Total-P	104	101	102			0.525
EPA 8321B	2,4-D	123	157	147			6.11
	2,4,5-T	110	114	95.4			17.9
	Acesulfame K	106	137	146			6.62
	Acetaminophen	85.6	108	95.5			12.5
	Acetamiprid	91.2	85.6	79.3			7.73
	Afidopyropen	78.5	72.4	64.5			11.6
	AMPA	109	87.2	89.5			1.95
	Bentazon	94.4					1.66
	Benzovindiflupyr	90.8	86.1	81.2			5.91
	Carbamazepine	80.8	61.2	51.6			12.3
	Clothianidin	100	93.3	90.0			3.54
	Dinotefuran	103	109	97.5			11.5
	Diuron	74.3	50.1	45.9			8.68
	Endothall	93.6	121	130			6.54
	Fenuron	99.7	79.9	74.0			7.61
	Fluridone	101					10.4
	Glufosinate	94.2	96.4	110			13.5
	Glyphosate	95.0	142	160			7.46
	Hydrocodone	101	94.1	84.4			10.8
	Ibuprofen	79.4	89.7	76.0			16.4
	Imazapyr	104	143	123			9.95
	Imidacloprid	103	142	130			8.82
	Linuron	83.8	76.2	64.2			17.1
	Mandestrobin	96.5	93.4	82.7			12.1
	MCPP	133	150	145			3.34
	Naproxen	84.3	84.9	81.2			4.50
	Primidone	87.9	108	94.6			12.0
	Pyraclostrobin	87.7	88.7	83.1			6.49
	Silvex	98.7	99.2	102			3.19
	Sucralose	95.2	103	103			0.0731
	Thiamethoxam	101	92.1	85.0			7.96
	Tolfenpyrad	57.2	73.4	58.8			22.1
	Triclopyr	107	115	99.0			14.9
SM 2320 B-2011	Total Alkalinity	102				1.51	
SM 2540 C-2015	TDS	104				4.22	
SM 2540 D-2015	TSS	96.8				7.51	
	TSS	103					
SM 4500-F- C-2011	Fluoride	103	105	105			0.0
SM 5310 B-2014	Organic Carbon	96.7	98.2	100			2.01
	Organic Carbon	95.0	90.6	91.1			0.434
	Organic Carbon	97.0	93.4	93.3			0.102
	Organic Carbon	96.8	94.9	95.5			0.496

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2481614, 2481615, 2481618, 2481620, 2481622
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2481614, 2481615, 2481618, 2481620, 2481622
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2481614, 2481615, 2481618, 2481620, 2481622
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2481614, 2481615, 2481618, 2481620, 2481622
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2481616, 2481617, 2481619, 2481621, 2481623
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2481616, 2481617, 2481619, 2481621, 2481623
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2481616, 2481617, 2481619, 2481621, 2481623
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2481616, 2481617, 2481619, 2481621, 2481623
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2481638, 2481639
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2481614, 2481615, 2481618, 2481620, 2481622
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2481614, 2481615, 2481618, 2481620, 2481622
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2481614, 2481615, 2481618, 2481620, 2481622
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2481614, 2481615, 2481618, 2481620, 2481622
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2481616, 2481617, 2481619, 2481621, 2481623

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	04/11/2024			04/11/2024 14:44	Samantha L Bates	2481614
	04/11/2024			04/11/2024 14:45	Samantha L Bates	2481615, 2481618
	04/11/2024			04/11/2024 14:46	Samantha L Bates	2481620
	04/11/2024			04/11/2024 14:47	Samantha L Bates	2481622
EPA 180.1 Rev. 2.0	04/11/2024			04/11/2024 13:30	Samantha L Bates	2481614
	04/11/2024			04/11/2024 13:31	Samantha L Bates	2481615
	04/11/2024			04/11/2024 13:32	Samantha L Bates	2481618
	04/11/2024			04/11/2024 13:33	Samantha L Bates	2481620
EPA 300.0 Rev. 2.1	04/11/2024			04/11/2024 13:34	Samantha L Bates	2481622
	04/11/2024			04/18/2024 07:27	James L Waggerby	2481614
	04/11/2024			04/18/2024 08:12	James L Waggerby	2481615
	04/11/2024			04/18/2024 08:27	James L Waggerby	2481618
EPA 350.1 Rev. 2.0	04/11/2024			04/18/2024 08:42	James L Waggerby	2481620
	04/11/2024			04/18/2024 08:57	James L Waggerby	2481622
	04/11/2024			04/15/2024 11:42	Khloe J Berg	2481616
	04/11/2024			04/15/2024 11:43	Khloe J Berg	2481617
	04/11/2024			04/17/2024 11:42	Kenneth H Lee	2481619
	04/11/2024			04/17/2024 11:43	Kenneth H Lee	2481621
	04/11/2024			04/17/2024 11:44	Kenneth H Lee	2481623
	04/11/2024			04/17/2024 11:44	Kenneth H Lee	2481623
EPA 351.2 Rev. 2.0	04/11/2024	04/16/2024 10:48	Simonne.V. Calhoun	04/17/2024 18:21	Ping Hua	2481616
	04/11/2024	04/16/2024 10:48	Simonne.V. Calhoun	04/17/2024 18:23	Ping Hua	2481617
	04/11/2024	04/16/2024 10:48	Simonne.V. Calhoun	04/17/2024 18:24	Ping Hua	2481619
	04/11/2024	04/16/2024 10:48	Simonne.V. Calhoun	04/17/2024 18:26	Ping Hua	2481621
EPA 353.2 Rev. 2.0	04/11/2024	04/16/2024 10:48	Simonne.V. Calhoun	04/17/2024 18:28	Ping Hua	2481623
	04/11/2024			04/15/2024 15:01	Fadila Guebre	2481616
	04/11/2024			04/15/2024 15:07	Fadila Guebre	2481617
	04/11/2024			04/15/2024 15:08	Fadila Guebre	2481619
	04/11/2024			04/15/2024 15:09	Fadila Guebre	2481621
	04/11/2024			04/15/2024 15:10	Fadila Guebre	2481623
	04/11/2024	04/16/2024 14:10	Adam P Silver	04/17/2024 09:47	Elise M. Gillis	2481619
	04/11/2024	04/16/2024 14:10	Adam P Silver	04/17/2024 09:48	Elise M. Gillis	2481621
EPA 365.1 Rev. 2.0	04/11/2024	04/16/2024 14:10	Adam P Silver	04/17/2024 11:29	Elise M. Gillis	2481616
	04/11/2024	04/16/2024 14:10	Adam P Silver	04/17/2024 11:30	Elise M. Gillis	2481617
	04/11/2024	04/16/2024 14:10	Adam P Silver	04/17/2024 11:37	Elise M. Gillis	2481623
	04/11/2024	04/16/2024 14:10	Adam P Silver	04/17/2024 11:37	Elise M. Gillis	2481623
EPA 8321B	04/11/2024	04/12/2024 09:00	Hoor Shaik	04/16/2024 21:57	Juyoung Kim	2481638
	04/11/2024	04/12/2024 09:00	Hoor Shaik	04/16/2024 22:15	Juyoung Kim	2481639
	04/11/2024	04/15/2024 13:00	Samatha Luckman	04/15/2024 19:26	Samatha Luckman	2481638
	04/11/2024	04/15/2024 13:00	Samatha Luckman	04/15/2024 19:40	Samatha Luckman	2481639
	04/11/2024	04/15/2024 13:00	Samatha Luckman	04/16/2024 03:18	Samatha Luckman	2481638
	04/11/2024	04/15/2024 13:00	Samatha Luckman	04/16/2024 03:31	Samatha Luckman	2481639

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	04/11/2024	04/15/2024 13:00	Samatha Luckman	04/16/2024 06:08	Samatha Luckman	2481638
SM 2320 B-2011	04/11/2024	04/15/2024 13:00	Samatha Luckman	04/16/2024 06:21	Samatha Luckman	2481639
	04/11/2024			04/17/2024 07:18	Adam P Silver	2481614
	04/11/2024			04/17/2024 07:30	Adam P Silver	2481620
	04/11/2024			04/17/2024 07:43	Adam P Silver	2481622
	04/11/2024			04/17/2024 07:56	Adam P Silver	2481615
SM 2540 C-2015	04/11/2024			04/17/2024 09:44	Adam P Silver	2481618
	04/11/2024			04/16/2024 16:07	Yijie Li	2481614, 2481615, 2481618, 2481620, 2481622
SM 2540 D-2015	04/11/2024			04/16/2024 16:07	Yijie Li	2481614, 2481615, 2481618, 2481620, 2481622
SM 4500-F- C-2011	04/11/2024			04/17/2024 04:42	Adam P Silver	2481614
	04/11/2024			04/17/2024 04:57	Adam P Silver	2481620
	04/11/2024			04/17/2024 05:02	Adam P Silver	2481622
	04/11/2024			04/17/2024 05:07	Adam P Silver	2481615
	04/11/2024			04/17/2024 06:33	Adam P Silver	2481618
SM 5310 B-2014	04/11/2024			04/16/2024 08:47	Jessica K Wilks	2481616
	04/11/2024			04/16/2024 17:18	Jessica K Wilks	2481621
	04/11/2024			04/20/2024 04:54	Kenneth H Lee	2481619
	04/11/2024			04/26/2024 13:38	Khloe J Berg	2481623
	04/11/2024			04/26/2024 14:25	Khloe J Berg	2481617