

Chemical Analysis Report

NE-DIST-2022-09-22-01

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

Event Description: **unnamed run boat**
Request ID: **RQ-2022-09-19-20**
Customer: **NE-DIST**
Project ID: **SMP**

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

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 13-OCT-2022 09:39

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored 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: Unnamed Drain South Entrance

Collection Date/Time: 09/21/2022 10:30

Field ID: G5NE0591

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358672	EPA 180.1 Rev. 2.0	Turbidity	7.8		NTU	P420011	
	SM 2320 B-2011	Total Alkalinity	109		mg CaCO3/L	P420429	
	SM 2540 D-2011	TSS	12	AJ	mg/L	P420481	RPD
	SM 4500-F- C-2011	Fluoride	1.1		mg F/L	P420431	
2358673	EPA 350.1 Rev. 2.0	Ammonia-N	0.071		mg N/L	P420592	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P420128	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P420402	
	EPA 365.1 Rev. 2.0	Total-P	0.056		mg P/L	P420230	
	SM 5310 B-2011	Organic Carbon	8.7		mg C/L	P420175	

Ref. Method and Comment:
 SM 2540 D-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: UNNAMED DRAIN @ EAGLES NEST RD

Collection Date/Time: 09/21/2022 12:20

Field ID: 27010079

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358717	EPA 8321B	2,4-D	0.0020	U	ug/L	P420123	
		Acesulfame K	0.10	U	ug/L	P419980	
		2,4,5-T	0.0040	U	ug/L	P420123	
		AMPA	0.10	U	ug/L	P419980	
		Acetaminophen	0.0080	U	ug/L	P420123	
		Acetamiprid	0.0020	U	ug/L	P420123	
		Endothall	0.25	U	ug/L	P419980	
		Glufosinate	0.10	U	ug/L	P419980	
		Glyphosate	0.10	U	ug/L	P419980	
		Afidopyropen	0.0020	U	ug/L	P420123	
		Bentazon	8.0E-04	U	ug/L	P420123	
		Sucralose	0.010	U	ug/L	P419980	
		Benzovindiflupyr	0.0020	U	ug/L	P420123	
		Carbamazepine	8.0E-04	U	ug/L	P420123	
		Clothianidin	0.0020	U	ug/L	P420123	
		Dinotefuran	0.0020	U	ug/L	P420123	
		Diuron	0.0020	U	ug/L	P420123	
		Fenuron	0.032	U	ug/L	P420123	
		Fluridone	8.0E-04	U	ug/L	P420123	
		Imazapyr	0.042		ug/L	P420123	
		Hydrocodone	0.0020	U	ug/L	P420123	
		Ibuprofen	0.020	U	ug/L	P420123	
		Imidacloprid	0.0020	U	ug/L	P420123	
		Linuron	0.0040	U	ug/L	P420123	
		Mandestrobin	0.0020	U	ug/L	P420123	
		MCPP	0.0020	U	ug/L	P420123	
		Naproxen	0.0080	U	ug/L	P420123	
		Primidone	0.0040	U	ug/L	P420123	
		Pyraclostrobin	0.0020	U	ug/L	P420123	
		Silvex	0.0040	U	ug/L	P420123	
		Thiamethoxam	0.0020	U	ug/L	P420123	
		Tolfenpyrad	0.0020	U	ug/L	P420123	
		Triclopyr	0.0040	U	ug/L	P420123	

Sample Location: Unnamed Drain 10M N Eagles Nest Rd. aprox. 0.5MI E US1 **Collection Date/Time: 09/21/2022 12:35**

Field ID: 27010078

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358674	DEP SOP: NU-094-1	Color (true)	200		PCU	P420002	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P420011	
	EPA 300.0 Rev. 2.1	Chloride	41		mg Cl/L	P420330	
		Sulfate	4.8		mg SO4/L	P420333	
	SM 2320 B-2011	Total Alkalinity	114	A	mg CaCO3/L	P420379	
	SM 2540 C-2011	TDS	258	A	mg/L	P420487	
	SM 2540 D-2011	TSS	2	IA	mg/L	P420476	
	SM 4500-F- C-2011	Fluoride	0.075	I	mg F/L	P420383	
2358675	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P420591	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P420199	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.036		mg N/L	P420412	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P420229	
	SM 5310 B-2011	Organic Carbon	26		mg C/L	P420174	
2358716	EPA 8321B	2,4-D	0.0020	U	ug/L	P420123	
		Acesulfame K	0.10	U	ug/L	P419980	
		2,4,5-T	0.0040	U	ug/L	P420123	
		AMPA	0.10	U	ug/L	P419980	
		Acetaminophen	0.0080	U	ug/L	P420123	
		Acetamiprid	0.0020	U	ug/L	P420123	
		Endothall	0.25	U	ug/L	P419980	
		Glufosinate	0.10	U	ug/L	P419980	
		Glyphosate	0.10	U	ug/L	P419980	
		Afidopyropen	0.0020	U	ug/L	P420123	
		Bentazon	8.0E-04	U	ug/L	P420123	
		Sucralose	0.010	U	ug/L	P419980	
		Benzovindiflupyr	0.0020	U	ug/L	P420123	
		Carbamazepine	8.0E-04	U	ug/L	P420123	
		Clothianidin	0.0020	U	ug/L	P420123	
		Dinotefuran	0.0020	U	ug/L	P420123	
		Diuron	0.0020	U	ug/L	P420123	
		Fenuron	0.032	U	ug/L	P420123	
		Fluridone	8.0E-04	U	ug/L	P420123	
		Imazapyr	0.092		ug/L	P420123	
		Hydrocodone	0.0020	U	ug/L	P420123	
		Ibuprofen	0.020	U	ug/L	P420123	
		Imidacloprid	0.0020	U	ug/L	P420123	
		Linuron	0.0040	U	ug/L	P420123	
		Mandestrobin	0.0020	U	ug/L	P420123	
		MCP	0.0020	U	ug/L	P420123	
		Naproxen	0.0080	U	ug/L	P420123	
		Primidone	0.0040	U	ug/L	P420123	
		Pyraclostrobin	0.0020	U	ug/L	P420123	
		Silvex	0.0040	U	ug/L	P420123	

Field ID: 27010078

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358716	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P420123	
		Tolfenpyrad	0.0020	U	ug/L	P420123	
		Triclopyr	0.0040	U	ug/L	P420123	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: 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: P420002

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420011

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420330

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420333

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420591

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420592

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420128

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420199

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420402

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420412

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420229

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420230

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

Reference Method: EPA 8321B
Batch ID: P419980

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: P420123

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	0.020	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P420123

Component	Result	Code	Units
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: P420379

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

Reference Method: SM 2320 B-2011
Batch ID: P420429

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

Reference Method: SM 2540 C-2011
Batch ID: P420487

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P420476

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P420481

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P420383

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P420431

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P420174

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P420175

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: P420002

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420011

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420333

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420591

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: P420592

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420128

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420199

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420402

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420412

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: P420229

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420230

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

Reference Method: EPA 8321B
Batch ID: P419980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.9		P	40 - 150
AMPA	112		P	40 - 150
Endothall	97.7		P	40 - 150
Glufosinate	91.2		P	40 - 150
Glyphosate	109		P	40 - 150
Sucralose	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P420123

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	74.2		P	30 - 160
2,4,5-T	62.5		P	30 - 160
Acetaminophen	87.8		P	30 - 150
Acetamiprid	79.9		P	30 - 160
Afidopyropen	70.6		P	30 - 160
Bentazon	38.2		P	30 - 150
Benzovindiflupyr	78.3		P	30 - 160
Carbamazepine	76.3		P	30 - 160
Clothianidin	91.9		P	30 - 160
Dinotefuran	95.4		P	30 - 160
Diuron	70.6		P	30 - 160
Fenuron	96.9		P	30 - 160
Fluridone	91.9		P	30 - 160
Hydrocodone	89.2		P	30 - 160
Ibuprofen	58.2		P	30 - 160
Imazapyr	82.9		P	30 - 160
Imidacloprid	120		P	30 - 160
Linuron	72.7		P	30 - 160
Mandestrobin	94.5		P	30 - 160
MCPP	78.3		P	30 - 160
Naproxen	70.0		P	30 - 160
Primidone	86.3		P	30 - 160
Pyraclostrobin	77.5		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P420123

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silvex	63.2		P	30 - 160
Thiamethoxam	95.4		P	30 - 160
Tolfenpyrad	45.2		P	30 - 160
Triclopyr	66.9		P	30 - 160

Reference Method: SM 2320 B-2011
Batch ID: P420379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P420429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.7		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P420383

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P420431

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P420174

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.9		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P420175

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358748	Chloride	93.5		P	90 - 110
2359074	Chloride	95.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420333

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358748	Sulfate	92.1		P	90 - 110
2359074	Sulfate	93.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420591

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358668	Ammonia-N	99.6	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358782	Ammonia-N	101	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420128

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358021	Kjeldahl Nitrogen	90.6	92.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420402

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358633	NO2NO3-N	104	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358803	NO2NO3-N	95.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358669	Total-P	106	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420230

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358931	Total-P	105	106	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P419980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358851	Acesulfame K	86.6	88.8	P/P	40 - 150
2358851	AMPA	100	106	P/P	40 - 150
2358851	Endothall	126	130	P/P	40 - 150
2358851	Glufosinate	85.2	67.6	P/P	40 - 150
2358851	Glyphosate	85.1	90.0	P/P	40 - 150
2358851	Sucralose	104	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P420123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358657	2,4-D	89.5	87.7	P/P	30 - 160
2358657	2,4,5-T	84.3	82.8	P/P	30 - 160
2358657	Acetaminophen	106	105	P/P	30 - 150
2358657	Acetamiprid	88.4	86.3	P/P	30 - 160
2358657	Afidopyropen	85.5	86.0	P/P	30 - 160
2358657	Bentazon	42.2	38.5	P/P	30 - 150
2358657	Benzovindiflupyr	84.1	84.6	P/P	30 - 160
2358657	Carbamazepine	77.5	74.1	P/P	30 - 160
2358657	Clothianidin	109	107	P/P	30 - 160
2358657	Dinotefuran	97.1	116	P/P	30 - 160
2358657	Diuron	73.5	74.4	P/P	30 - 160
2358657	Fenuron	93.2	93.3	P/P	30 - 160
2358657	Fluridone	95.5	95.1	P/P	30 - 160
2358657	Hydrocodone	102	101	P/P	30 - 160
2358657	Ibuprofen	75.8	63.9	P/P	30 - 160
2358657	Imazapyr	96.0	97.8	P/P	30 - 160
2358657	Imidacloprid	122	125	P/P	30 - 160
2358657	Linuron	76.9	80.4	P/P	30 - 160
2358657	Mandestrobin	97.4	100	P/P	30 - 160
2358657	MCPP	93.6	92.0	P/P	30 - 160
2358657	Naproxen	101	96.4	P/P	30 - 160
2358657	Primidone	91.6	96.3	P/P	30 - 160
2358657	Pyraclostrobin	86.8	87.4	P/P	30 - 160
2358657	Silvex	77.8	75.1	P/P	30 - 160
2358657	Thiamethoxam	122	125	P/P	30 - 160
2358657	Tolfenpyrad	46.8	47.6	P/P	30 - 160
2358657	Triclopyr	87.2	85.6	P/P	30 - 160

Reference Method: SM 4500-F- C-2011
Batch ID: P420383

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358674	Fluoride	100	100	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P420431

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358778	Fluoride	96.6	97.4	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P420174

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358433	Organic Carbon	97.5	98.3	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P420175

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358630	Organic Carbon	91.0	88.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P420002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358748	Color (true)	2.13	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420011

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358432	Turbidity	3.37	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358748	Chloride	0.236	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358748	Sulfate	0.0504	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420591

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358668	Ammonia-N	2.55	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358782	Ammonia-N	2.05	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358021	Kjeldahl Nitrogen	1.09	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359611	Kjeldahl Nitrogen	0.562	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358633	NO2NO3-N	2.58	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358803	NO2NO3-N	0.175	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420229

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358669	Total-P	0.774	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420230

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358931	Total-P	0.427	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P419980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358851	Acesulfame K	2.46	Spike	P	0 - 30
2358851	AMPA	5.11	Spike	P	0 - 30
2358851	Endothall	2.70	Spike	P	0 - 30
2358851	Glufosinate	23.1	Spike	P	0 - 30
2358851	Glyphosate	5.63	Spike	P	0 - 30
2358851	Sucralose	0.187	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P420123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358657	2,4-D	1.88	Spike	P	0 - 30
2358657	2,4,5-T	1.81	Spike	P	0 - 30
2358657	Acetaminophen	0.379	Spike	P	0 - 30
2358657	Acetamiprid	2.35	Spike	P	0 - 30
2358657	Afidopyropen	0.608	Spike	P	0 - 30
2358657	Bentazon	8.16	Spike	P	0 - 30
2358657	Benzovindiflupyr	0.571	Spike	P	0 - 30
2358657	Carbamazepine	4.47	Spike	P	0 - 30
2358657	Clothianidin	1.60	Spike	P	0 - 30
2358657	Dinotefuran	17.4	Spike	P	0 - 30
2358657	Diuron	1.16	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P420123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358657	Fenuron	0.0381	Spike	P	0 - 30
2358657	Fluridone	0.511	Spike	P	0 - 30
2358657	Hydrocodone	0.646	Spike	P	0 - 30
2358657	Ibuprofen	17.0	Spike	P	0 - 30
2358657	Imazapyr	1.61	Spike	P	0 - 30
2358657	Imidacloprid	2.34	Spike	P	0 - 30
2358657	Linuron	4.39	Spike	P	0 - 30
2358657	Mandestrobin	2.67	Spike	P	0 - 30
2358657	MCCP	1.69	Spike	P	0 - 30
2358657	Naproxen	4.32	Spike	P	0 - 30
2358657	Primidone	5.05	Spike	P	0 - 30
2358657	Pyraclostrobin	0.623	Spike	P	0 - 30
2358657	Silvex	3.52	Spike	P	0 - 30
2358657	Thiamethoxam	2.16	Spike	P	0 - 30
2358657	Tolfenpyrad	1.58	Spike	P	0 - 30
2358657	Triclopyr	1.83	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P420379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358674	Total Alkalinity	1.87	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P420429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358778	Total Alkalinity	0.243	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011

Batch ID: P420487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358674	TDS	3.48	Sample	P	0 - 10

Reference Method: SM 2540 D-2011

Batch ID: P420481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358672	TSS	10.2	Sample	F	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P420383

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358674	Fluoride	0.0	Spike	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P420431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358778	Fluoride	0.513	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P420174

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358433	Organic Carbon	0.693	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P420175

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358630	Organic Carbon	2.79	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2358716
Field Sample ID: 27010078

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	50.7	P	30 - 160
EPA 8321B	Diuron-d6	44.1	P	30 - 160
EPA 8321B	Endothall-d6	84.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.0	P	30 - 160
EPA 8321B	Primidone-d5	81.4	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160

Lab Sample ID: 2358717
Field Sample ID: 27010079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	51.1	P	30 - 160
EPA 8321B	Diuron-d6	48.8	P	30 - 160
EPA 8321B	Endothall-d6	91.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.8	P	30 - 160
EPA 8321B	Primidone-d5	88.6	P	30 - 160
EPA 8321B	Sucralose-d6	99.0	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A114895

Included Lab Sample IDs: 2358674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114898

Included Lab Sample IDs: 2358672, 2358674

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

Reference Method: SM 5310 B-2011

Run ID: A114964

Included Lab Sample IDs: 2358673, 2358675

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	92.4	95.5	P/P	90 - 110
Organic Carbon	96.4	97.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114978

Included Lab Sample IDs: 2358716, 2358717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	109	P/P	60 - 160
AMPA	109	113	P/P	60 - 160
Endothall	79.8	85.8	P/P	60 - 160
Endothall	97.9	79.8	P/P	60 - 160
Glufosinate	77.0	83.2	P/P	60 - 160
Glufosinate	81.8	77.0	P/P	60 - 160
Glyphosate	104	109	P/P	60 - 160
Glyphosate	109	109	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114979

Included Lab Sample IDs: 2358716, 2358717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	109	111	P/P	60 - 160
Acesulfame K	95.4	109	P/P	60 - 160
Sucralose	106	105	P/P	60 - 160
Sucralose	109	106	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114983

Included Lab Sample IDs: 2358716, 2358717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.7	86.8	P/P	50 - 150
2,4,5-T	88.5	88.4	P/P	50 - 150
Acetaminophen	96.8	95.8	P/P	60 - 160
Acetamiprid	103	99.7	P/P	50 - 150
Afidopyropen	107	93.5	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A114983

Included Lab Sample IDs: 2358716, 2358717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	99.0	89.9	P/P	50 - 160
Benzovindiflupyr	107	100	P/P	50 - 150
Carbamazepine	101	99.8	P/P	60 - 150
Clothianidin	107	100	P/P	60 - 150
Dinotefuran	100	101	P/P	50 - 150
Diuron	110	103	P/P	60 - 160
Fenuron	103	103	P/P	60 - 150
Fluridone	109	106	P/P	60 - 160
Hydrocodone	102	98.6	P/P	60 - 150
Ibuprofen	101	72.8	P/P	50 - 160
Imazapyr	90.1	89.2	P/P	50 - 150
Imidacloprid	97.2	90.3	P/P	60 - 150
Linuron	100	111	P/P	60 - 150
Mandestrobin	105	95.6	P/P	50 - 150
MCPP	85.3	91.0	P/P	50 - 150
Naproxen	65.1	61.6	P/P	50 - 160
Primidone	98.6	101	P/P	60 - 150
Pyraclostrobin	103	101	P/P	60 - 150
Silvex	94.6	83.9	P/P	50 - 150
Thiamethoxam	104	100	P/P	50 - 150
Tolfenpyrad	99.1	97.6	P/P	60 - 150
Triclopyr	89.4	96.5	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114999

Included Lab Sample IDs: 2358674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.0	99.7	P/P	90 - 110
Sulfate	99.0	99.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115009

Included Lab Sample IDs: 2358673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115018

Included Lab Sample IDs: 2358675

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115024

Included Lab Sample IDs: 2358673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.2	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A115070
Included Lab Sample IDs: 2358674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	96.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A115070
Included Lab Sample IDs: 2358674

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A115091
Included Lab Sample IDs: 2358673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	95.0	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A115092
Included Lab Sample IDs: 2358675

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.5	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A115093
Included Lab Sample IDs: 2358675

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

Reference Method: SM 2320 B-2011
Run ID: A115100
Included Lab Sample IDs: 2358672

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	96.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A115100
Included Lab Sample IDs: 2358672

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A115158
Included Lab Sample IDs: 2358673, 2358675

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	97.4	P/P	90 - 110
Ammonia-N	99.1	98.5	P/P	90 - 110

Quality Assurance Report

Calibration Verification

* 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				2.13	
EPA 180.1 Rev. 2.0	Turbidity	101				3.37	
EPA 300.0 Rev. 2.1	Chloride	98.7	93.5	95.1		0.236	
	Sulfate	96.3	92.1	93.9		0.0504	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	99.6	103			2.55
	Ammonia-N	96.8	101	104			2.05
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	90.6	92.1			1.09
	Kjeldahl Nitrogen	99.6					0.562
EPA 353.2 Rev. 2.0	NO2NO3-N	100	104	107			2.58
	NO2NO3-N	104	95.5				0.175
EPA 365.1 Rev. 2.0	Total-P	103	106	105			0.774
	Total-P	103	105	106			0.427
EPA 8321B	2,4-D	74.2	89.5	87.7			1.88
	2,4,5-T	62.5	84.3	82.8			1.81
	Acesulfame K	99.9	86.6	88.8			2.46
	Acetaminophen	87.8	106	105			0.379
	Acetamiprid	79.9	88.4	86.3			2.35
	Afidopyropen	70.6	85.5	86.0			0.608
	AMPA	112	100	106			5.11
	Bentazon	38.2	42.2	38.5			8.16
	Benzovindiflupyr	78.3	84.1	84.6			0.571
	Carbamazepine	76.3	77.5	74.1			4.47
	Clothianidin	91.9	109	107			1.60
	Dinotefuran	95.4	97.1	116			17.4
	Diuron	70.6	73.5	74.4			1.16
	Endothall	97.7	126	130			2.70
	Fenuron	96.9	93.2	93.3			0.0381
	Fluridone	91.9	95.5	95.1			0.511
	Glufosinate	91.2	85.2	67.6			23.1
	Glyphosate	109	85.1	90.0			5.63
	Hydrocodone	89.2	102	101			0.646
	Ibuprofen	58.2	75.8	63.9			17.0
	Imazapyr	82.9	96.0	97.8			1.61
	Imidacloprid	120	122	125			2.34
	Linuron	72.7	76.9	80.4			4.39
	Mandestrobin	94.5	97.4	100			2.67
	MCPP	78.3	93.6	92.0			1.69
	Naproxen	70.0	101	96.4			4.32
	Primidone	86.3	91.6	96.3			5.05
	Pyraclostrobin	77.5	86.8	87.4			0.623
	Silvex	63.2	77.8	75.1			3.52
	Sucralose	106	104	104			0.187
	Thiamethoxam	95.4	122	125			2.16
	Tolfenpyrad	45.2	46.8	47.6			1.58
	Triclopyr	66.9	87.2	85.6			1.83
SM 2320 B-2011	Total Alkalinity	98.6				1.87	
	Total Alkalinity	98.7				0.243	
SM 2540 C-2011	TDS					3.48	
SM 2540 D-2011	TSS					10.2	
SM 4500-F- C-2011	Fluoride	102	100	100			0.0
	Fluoride	102	96.6	97.4			0.513
SM 5310 B-2011	Organic Carbon	95.9	97.5	98.3			0.693
	Organic Carbon	98.1	91.0	88.4			2.79

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2358674
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2358672, 2358674
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2358674
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2358674
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2358673, 2358675
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2358673, 2358675
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2358673, 2358675
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2358673, 2358675
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2358716, 2358717
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2358672, 2358674
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2358674
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2358672, 2358674
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2358672, 2358674
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2358673, 2358675

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	09/22/2022			09/22/2022 14:56	Anna M. Plaviak	2358674
EPA 180.1 Rev. 2.0	09/22/2022			09/22/2022 14:04	Chandler E Cox	2358672
	09/22/2022			09/22/2022 14:05	Chandler E Cox	2358674
EPA 300.0 Rev. 2.1	09/22/2022			09/29/2022 13:24	Anna M. Plaviak	2358674
EPA 350.1 Rev. 2.0	09/22/2022			10/06/2022 14:31	Ping Hua	2358675
	09/22/2022			10/06/2022 14:52	Ping Hua	2358673
EPA 351.2 Rev. 2.0	09/22/2022	09/27/2022 14:11	Samantha L Bates	09/28/2022 15:17	Samantha L Bates	2358673
	09/22/2022	09/28/2022 12:10	Alexandra J Mattheus	10/03/2022 14:32	Samantha L Bates	2358675
EPA 353.2 Rev. 2.0	09/22/2022			10/03/2022 12:46	Beverly Y. Sanders	2358675
	09/22/2022			10/03/2022 13:34	Judith K. Clark	2358673
EPA 365.1 Rev. 2.0	09/22/2022	09/28/2022 14:15	Simonne.V. Calhoun	09/29/2022 10:15	James L Waggeberby	2358675
	09/22/2022	09/28/2022 14:15	Simonne.V. Calhoun	09/29/2022 12:12	James L Waggeberby	2358673
EPA 8321B	09/22/2022	09/27/2022 09:00	June Rhew	09/28/2022 03:40	Juyoung Kim	2358716
	09/22/2022	09/27/2022 09:00	June Rhew	09/28/2022 03:58	Juyoung Kim	2358717
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 12:04	Umesh Chiluwal	2358716
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 12:30	Umesh Chiluwal	2358717
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 22:58	Umesh Chiluwal	2358716
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 23:28	Umesh Chiluwal	2358717
SM 2320 B-2011	09/22/2022			10/01/2022 12:22	Dale L. Simmons	2358674
	09/22/2022			10/04/2022 03:40	Dale L. Simmons	2358672
SM 2540 C-2011	09/22/2022			09/27/2022 15:36	Yijie Li	2358674
SM 2540 D-2011	09/22/2022			09/27/2022 15:36	Yijie Li	2358672, 2358674
SM 4500-F- C-2011	09/22/2022			10/01/2022 12:12	Dale L. Simmons	2358674
	09/22/2022			10/04/2022 01:03	Dale L. Simmons	2358672
SM 5310 B-2011	09/22/2022			09/27/2022 04:05	Touraj Touran	2358675
	09/22/2022			09/27/2022 12:06	Touraj Touran	2358673