

Chemical Analysis Report

NE-DIST-2023-03-15-01

Florida DEP Laboratory
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DOH Accreditation E31780

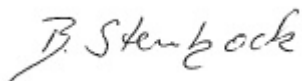
Event Description: **LSJR Southside**
Request ID: **RQ-2023-03-06-41**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 04-APR-2023 16:07



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: CHRISTOPHER CR @ SAN JOSE BLVD SR 13 Collection Date/Time: 03/14/2023 08:45

Field ID: 20030863

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393814	DEP SOP: NU-094-1	Color (true)	52		PCU	P427215	
	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P427199	
	EPA 300.0 Rev. 2.1	Chloride	1.1E+03		mg Cl/L	P427542	
		Sulfate	170		mg SO4/L	P427545	
	SM 2320 B-2011	Total Alkalinity	70		mg CaCO3/L	P427349	RPD
	SM 2540 C-2015	TDS	1.77E+03		mg/L	P427644	
	SM 2540 D-2015	TSS	4	I	mg/L	P427537	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P427356	
2393816	EPA 350.1 Rev. 2.0	Ammonia-N	0.099		mg N/L	P427569	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.56		mg N/L	P427382	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22		mg N/L	P427699	
	EPA 365.1 Rev. 2.0	Total-P	0.091		mg P/L	P427301	
	SM 5310 B-2011	Organic Carbon	8.5		mg C/L	P427459	

Ref. Method and Comment:

SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 3700 umhos/cm.

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

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: BIG POTTSBURG CR BOWDEN RD

Collection Date/Time: 03/14/2023 09:10

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393826	EPA 8270E	Aldrin	0.67	U	ng/L	P427174	MS, RPD
		Alpha-BHC	0.10	U	ng/L	P427174	
		Alpha-Chlordane	0.21	U	ng/L	P427174	
		PCB-1016	2.1	U	ng/L	P427174	
		Beta-BHC	0.10	U	ng/L	P427174	
		PCB-1221	2.1	U	ng/L	P427174	
		Beta-Cyfluthrin	1.3	U	ng/L	P427174	
		PCB-1232	2.1	U	ng/L	P427174	
		Bifenthrin	0.51	U	ng/L	P427174	
		PCB-1242	2.1	U	ng/L	P427174	
		Carbophenothion	0.92	U	ng/L	P427174	
		PCB-1248	2.1	U	ng/L	P427174	
		Chlorothalonil	3.7	U	ng/L	P427174	
		PCB-1254	2.1	U	ng/L	P427174	
		Cis-Nonachlor	0.21	U	ng/L	P427174	
		PCB-1260	2.1	U	ng/L	P427174	
		Cypermethrin	1.5	U	ng/L	P427174	
		Dacthal	0.15	U	ng/L	P427174	
		DDD-p,p'	0.26	U	ng/L	P427174	
		DDE-p,p'	0.21	U	ng/L	P427174	
		DDT-p,p'	0.26	U	ng/L	P427174	
		Delta-BHC	0.41	U	ng/L	P427174	
		Deltamethrin	1.3	U	ng/L	P427174	
		Dichlobenil	0.26	U	ng/L	P427174	
		Dicofol	1.3	U	ng/L	P427174	
		Dieldrin	0.41	U	ng/L	P427174	
		Endosulfan I	0.41	U	ng/L	P427174	
		Endosulfan II	0.41	U	ng/L	P427174	
		Endosulfan Sulfate	0.31	U	ng/L	P427174	
		Endrin	0.41	U	ng/L	P427174	
		Endrin Aldehyde	0.77	U	ng/L	P427174	
		Endrin Ketone	0.41	U	ng/L	P427174	
		Esfenvalerate	0.77	U	ng/L	P427174	
		Ethalfuralin	0.15	U	ng/L	P427174	
		Fenpropathrin	0.26	U	ng/L	P427174	
		Gamma-BHC	0.13	U	ng/L	P427174	RPD
		Gamma-Chlordane	0.21	U	ng/L	P427174	
		Heptachlor	0.21	U	ng/L	P427174	
		Heptachlor Epoxide	0.26	U	ng/L	P427174	
		Hexachlorobenzene**	1.0	U	ng/L	P427174	
		Kepone	5.1	U	ng/L	P427174	
		Lambda-Cyhalothrin	0.77	U	ng/L	P427174	
		Methoprene	0.77	U	ng/L	P427174	
		Methoxychlor	0.31	U	ng/L	P427174	

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393826	EPA 8270E	MGK-264	0.21	I	ng/L	P427174	
		Mirex	0.36	U	ng/L	P427174	
		Oxychlordane	0.31	U	ng/L	P427174	
		Permethrin	1.6	U	ng/L	P427174	
		Phenothrin	0.92	U	ng/L	P427174	
		Piperonyl Butoxide	0.61	I	ng/L	P427174	
		Prallethrin	2.1	U	ng/L	P427174	
		Tau-Fluvalinate	0.26	U	ng/L	P427174	
		Tetramethrin	0.77	U	ng/L	P427174	
		Trans-Nonachlor	0.21	U	ng/L	P427174	
		Triclosan Methyl	0.15	U	ng/L	P427174	
		Trifluralin	0.21	U	ng/L	P427174	
	EPA 8276	Chlordane	2.1	U	ng/L	P427174	
		Toxaphene	15	U	ng/L	P427174	

Sample Location: GOODBYS CREEK AT SANCHEZ RD

Collection Date/Time: 03/14/2023 10:00

Field ID: 20030594

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393827	EPA 8270E	Aldrin	0.70	U	ng/L	P427174	MS, RPD
		Alpha-BHC	0.11	U	ng/L	P427174	
		Alpha-Chlordane	0.21	U	ng/L	P427174	
		PCB-1016	2.1	U	ng/L	P427174	
		Beta-BHC	0.11	U	ng/L	P427174	
		PCB-1221	2.1	U	ng/L	P427174	
		Beta-Cyfluthrin	1.3	U	ng/L	P427174	
		PCB-1232	2.1	U	ng/L	P427174	
		Bifenthrin	0.54	U	ng/L	P427174	
		PCB-1242	2.1	U	ng/L	P427174	
		PCB-1248	2.1	U	ng/L	P427174	
		Chlorothalonil	3.9	U	ng/L	P427174	
		PCB-1254	2.1	U	ng/L	P427174	
		Cis-Nonachlor	0.21	U	ng/L	P427174	
		PCB-1260	2.1	U	ng/L	P427174	
		Cypermethrin	1.6	U	ng/L	P427174	
		Dacthal	0.16	U	ng/L	P427174	
		DDD-p,p'	0.27	U	ng/L	P427174	
		DDE-p,p'	0.21	U	ng/L	P427174	
		DDT-p,p'	0.27	U	ng/L	P427174	
		Delta-BHC	0.43	U	ng/L	P427174	RPD
		Deltamethrin	1.3	U	ng/L	P427174	
		Dichlobenil	0.27	U	ng/L	P427174	
		Dicofol	1.3	U	ng/L	P427174	
		Dieldrin	0.43	U	ng/L	P427174	
		Endosulfan I	0.43	U	ng/L	P427174	
		Endosulfan II	0.43	U	ng/L	P427174	
		Endosulfan Sulfate	0.32	U	ng/L	P427174	
		Endrin	0.43	U	ng/L	P427174	
		Endrin Aldehyde	0.80	U	ng/L	P427174	
		Endrin Ketone	0.43	U	ng/L	P427174	
		Esfenvalerate	0.80	U	ng/L	P427174	
		Ethalfuralin	0.16	U	ng/L	P427174	
		Fenpropathrin	0.27	U	ng/L	P427174	
		Gamma-BHC	0.13	U	ng/L	P427174	
		Gamma-Chlordane	0.21	U	ng/L	P427174	
		Heptachlor	0.21	U	ng/L	P427174	
		Heptachlor Epoxide	0.27	U	ng/L	P427174	
		Hexachlorobenzene**	1.1	U	ng/L	P427174	
		Kepone	5.4	U	ng/L	P427174	
		Lambda-Cyhalothrin	0.80	U	ng/L	P427174	
		Methoprene	0.80	U	ng/L	P427174	
		Methoxychlor	0.32	U	ng/L	P427174	
		MGK-264	0.23	I	ng/L	P427174	

Field ID: 20030594

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393827	EPA 8270E	Mirex	0.38	U	ng/L	P427174	
		Oxychlordane	0.32	U	ng/L	P427174	
		Permethrin	1.7	U	ng/L	P427174	
		Phenothrin	0.97	U	ng/L	P427174	
		Piperonyl Butoxide	1.7		ng/L	P427174	
		Prallethrin	2.1	U	ng/L	P427174	
		Tau-Fluvalinate	0.27	U	ng/L	P427174	
		Tetramethrin	0.80	U	ng/L	P427174	
		Trans-Nonachlor	0.21	U	ng/L	P427174	
		Triclosan Methyl	0.16	U	ng/L	P427174	
		Trifluralin	0.21	U	ng/L	P427174	
	EPA 8276	Chlordane	2.1	U	ng/L	P427174	
		Toxaphene	16	U	ng/L	P427174	

Sample Location: OLDFIELD CR @ JULINGTON CREEK ROAD

Collection Date/Time: 03/14/2023 10:50

Field ID: 20030684

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393815	DEP SOP: NU-094-1	Color (true)	41		PCU	P427215	
	EPA 180.1 Rev. 2.0	Turbidity	3.3		NTU	P427199	
	EPA 300.0 Rev. 2.1	Chloride	32		mg Cl/L	P427542	
		Sulfate	31		mg SO4/L	P427545	
	SM 2320 B-2011	Total Alkalinity	63		mg CaCO3/L	P427349	RPD
	SM 2540 C-2015	TDS	174		mg/L	P427644	
	SM 2540 D-2015	TSS	4	I	mg/L	P427537	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P427356	
2393817	EPA 350.1 Rev. 2.0	Ammonia-N	0.051		mg N/L	P427415	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48		mg N/L	P427383	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P427340	
	EPA 365.1 Rev. 2.0	Total-P	0.063		mg P/L	P427300	
	SM 5310 B-2011	Organic Carbon	8.5		mg C/L	P427459	

Ref. Method and Comment:

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

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: CORMORANT BRANCH @ MARBON RD

Collection Date/Time: 03/14/2023 10:25

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393812	DEP SOP: NU-094-1	Color (true)	52	A	PCU	P427215	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P427199	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P427542	
		Sulfate	18		mg SO4/L	P427545	
	SM 2320 B-2011	Total Alkalinity	57		mg CaCO3/L	P427349	RPD
	SM 2540 C-2015	TDS	151	A	mg/L	P427644	
	SM 2540 D-2015	TSS	3	IA	mg/L	P427537	
	SM 4500-F- C-2011	Fluoride	0.095	I	mg F/L	P427356	
2393813	EPA 350.1 Rev. 2.0	Ammonia-N	0.069		mg N/L	P427415	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.55		mg N/L	P427383	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.15		mg N/L	P427340	
	EPA 365.1 Rev. 2.0	Total-P	0.067		mg P/L	P427300	
	SM 5310 B-2011	Organic Carbon	8.3		mg C/L	P427459	
2393828	EPA 8321B	2,4-D	0.030		ug/L	P427187	
		Acesulfame K	0.11	I	ug/L	P427212	
		2,4,5-T	0.0040	U	ug/L	P427187	
		AMPA	0.17	I	ug/L	P427212	
		Acetaminophen	0.016	I	ug/L	P427187	
		Acetamiprid	0.0020	U	ug/L	P427187	
		Endothall	0.25	U	ug/L	P427212	
		Glufosinate	0.10	U	ug/L	P427212	
		Glyphosate	0.46		ug/L	P427212	
		Afidopyropen	0.0020	U	ug/L	P427187	
		Bentazon	0.081		ug/L	P427187	
		Sucralose	0.14		ug/L	P427212	
		Benzovindiflupyr	0.0020	U	ug/L	P427187	
		Carbamazepine	8.0E-04	U	ug/L	P427187	
		Clothianidin	0.0051	I	ug/L	P427187	
		Dinotefuran	0.012		ug/L	P427187	
		Diuron	0.018		ug/L	P427187	
		Fenuron	0.032	U	ug/L	P427187	
		Fluridone	0.0086		ug/L	P427187	
		Imazapyr	0.46		ug/L	P427187	
		Hydrocodone	0.0020	U	ug/L	P427187	
		Ibuprofen	0.080	U	ug/L	P427187	
		Imidacloprid	0.011		ug/L	P427187	
		Linuron	0.0040	U	ug/L	P427187	
		Mandestrobin	0.0020	U	ug/L	P427187	
		MCP	0.0070	I	ug/L	P427187	
		Naproxen	0.0080	U	ug/L	P427187	
		Primidone	0.0040	U	ug/L	P427187	
		Pyraclostrobin	0.0020	U	ug/L	P427187	
		Silvex	0.0040	U	ug/L	P427187	
		Thiamethoxam	0.0020	U	ug/L	P427187	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393828	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P427187	
		Triclopyr	0.0040	U	ug/L	P427187	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500-F- C-2011: 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: P427215

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427199

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427542

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427545

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427415

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427569

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427382

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427383

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427340

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: P427699

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427300

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427301

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

Reference Method: EPA 8270E
Batch ID: P427174

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427174

Component	Result	Code	Units
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427174

Component	Result	Code	Units
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P427174

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P427187

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P427187

Component	Result	Code	Units
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: P427212

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: P427349

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

Reference Method: SM 2540 C-2015

Batch ID: P427644

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P427537

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P427356

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P427459

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: P427215

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: P427199

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427542

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427545

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427415

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427569

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427382

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427383

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427340

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: P427699

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P427300

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P427301

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

Reference Method: EPA 8270E

Batch ID: P427174

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	35.9		P	10 - 92.0
Alpha-BHC	84.1		P	75 - 107
Alpha-Chlordane	53.9		P	50 - 108
Beta-BHC	72.5		P	36 - 138
Beta-Cyfluthrin	50.7		P	20 - 161
Bifenthrin	43.5		P	10 - 119
Carbophenothion	36.6		P	19 - 94.0
Chlorothalonil	41.9		P	26 - 186
Cis-Nonachlor	56.6		P	42 - 119
Cypermethrin	51.1		P	22 - 150
Dacthal	92.6		P	72 - 119
DDD-p,p'	58.5		P	45 - 107
DDE-p,p'	55.4		P	48 - 106
DDT-p,p'	66.3		P	48 - 110
Delta-BHC	75.7		P	54 - 140
Deltamethrin	54.3		P	22 - 189
Dichlobenil	56.7		P	36 - 117
Dicofol	51.8		P	46 - 155
Dieldrin	62.9		P	54 - 110
Endosulfan I	64.1		P	59 - 105
Endosulfan II	71.6		P	51 - 118
Endosulfan Sulfate	71.7		P	57 - 121
Endrin	62.2		P	10 - 120
Endrin Aldehyde	59.0		P	34 - 118
Endrin Ketone	87.5		P	69 - 177
Esfenvalerate	43.6		P	23 - 168
Ethalfuralin	54.2		P	49 - 99.0
Fenpropathrin	48.3		P	34 - 117
Gamma-BHC	88.5		P	72 - 117
Gamma-Chlordane	55.5		P	43 - 106
Heptachlor	50.8		P	41 - 98.0
Heptachlor Epoxide	79.1		P	57 - 106
Hexachlorobenzene	40.1		P	36 - 99.0
Kepone	125		P	16 - 215

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427174

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lambda-Cyhalothrin	36.0		P	21 - 177
Methoprene	35.2		P	10 - 119
Methoxychlor	61.0		P	60 - 112
MGK-264	60.5		P	26 - 122
Mirex	40.1		P	10 - 169
Oxychlordane	54.7		P	43 - 105
PCB-1016	76.9		P	48 - 112
PCB-1260	76.1		P	44 - 118
Permethrin	42.7		P	24 - 148
Phenothrin	31.6		P	10 - 106
Piperonyl Butoxide	75.0		P	10 - 139
Prallethrin	59.5		P	17 - 109
Tau-Fluvalinate	37.8		P	13 - 131
Tetramethrin	62.1		P	10 - 132
Trans-Nonachlor	55.4		P	44 - 106
Triclosan Methyl	64.9		P	59 - 109
Trifluralin	56.1		P	44 - 101

Reference Method: EPA 8276

Batch ID: P427174

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	80.5		P	61 - 116
Toxaphene	82.9		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P427187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.8		P	40 - 150
2,4,5-T	105		P	40 - 150
Acetaminophen	93.7		P	30 - 150
Acetamiprid	86.9		P	40 - 150
Afidopyropen	69.4		P	30 - 150
Bentazon	93.1		P	30 - 150
Benzovindiflupyr	83.3		P	40 - 150
Carbamazepine	92.9		P	40 - 150
Clothianidin	92.9		P	40 - 150
Dinotefuran	97.3		P	40 - 150
Diuron	81.1		P	40 - 150
Fenuron	91.2		P	40 - 150
Fluridone	73.4		P	40 - 150
Hydrocodone	99.7		P	40 - 150
Ibuprofen	72.1		P	40 - 150
Imazapyr	95.8		P	40 - 150
Imidacloprid	86.2		P	40 - 150
Linuron	75.5		P	40 - 150
Mandestrobin	85.9		P	40 - 150
MCPP	104		P	40 - 150
Naproxen	97.3		P	40 - 150
Primidone	83.1		P	40 - 150
Pyraclostrobin	74.4		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P427187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silvex	99.0		P	40 - 150
Thiamethoxam	92.8		P	40 - 150
Tolfenpyrad	49.7		P	30 - 150
Triclopyr	92.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427212

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	96.8		P	40 - 150
AMPA	136		P	40 - 150
Endothall	96.2		P	40 - 150
Glufosinate	98.1		P	40 - 150
Glyphosate	126		P	40 - 150
Sucralose	99.9		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P427349

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.8		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P427644

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

Reference Method: SM 2540 D-2015
Batch ID: P427537

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.0		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P427356

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427459

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393770	Chloride	102		P	90 - 110
2393834	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427545

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393770	Sulfate	99.5		P	90 - 110
2393834	Sulfate	97.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427415

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393772	Ammonia-N	92.6	93.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427569

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393782	Ammonia-N	99.4	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393602	Kjeldahl Nitrogen	92.6	93.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427383

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393845	Kjeldahl Nitrogen	98.7	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427340

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393813	NO2NO3-N	96.5	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427699

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393782	NO2NO3-N	99.6	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427300

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393846	Total-P	101	100	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P427301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393952	Total-P	97.1	96.8	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P427174

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393976	Aldrin	38.4	39.6	P/P	20 - 82.0
2393976	Alpha-BHC	96.4	47.9	P/F	71 - 109
2393976	Alpha-Chlordane	59.5	59.1	P/P	42 - 106
2393976	Beta-BHC	80.8	74.4	P/P	69 - 180
2393976	Beta-Cyfluthrin	59.9	71.8	P/P	18 - 175
2393976	Bifenthrin	59.3	69.3	P/P	21 - 128
2393976	Carbophenothion	39.6	44.0	P/P	10 - 126
2393976	Chlorothalonil	40.1	28.6	P/P	10 - 300
2393976	Cis-Nonachlor	55.6	65.1	P/P	34 - 106
2393976	Cypermethrin	61.4	77.0	P/P	22 - 158
2393976	Dacthal	115	105	P/P	54 - 116
2393976	DDD-p,p'	63.5	62.5	P/P	34 - 107
2393976	DDE-p,p'	64.3	65.8	P/P	33 - 110
2393976	DDT-p,p'	72.3	76.7	P/P	50 - 122
2393976	Delta-BHC	79.7	78.2	P/P	77 - 193
2393976	Deltamethrin	67.5	90.1	P/P	10 - 195
2393976	Dichlobenil	48.7	51.4	P/P	25 - 113
2393976	Dicofol	56.1	52.6	P/P	38 - 247
2393976	Dieldrin	66.9	71.1	P/P	45 - 118
2393976	Endosulfan I	66.1	69.8	P/P	51 - 106
2393976	Endosulfan II	70.4	73.1	P/P	37 - 122
2393976	Endosulfan Sulfate	72.6	67.3	P/P	43 - 132
2393976	Endrin	69.4	71.4	P/P	29 - 101
2393976	Endrin Aldehyde	62.3	51.6	P/P	19 - 110
2393976	Endrin Ketone	97.1	93.7	P/P	60 - 140
2393976	Esfenvalerate	53.8	74.2	P/P	26 - 199
2393976	Ethalfuralin	59.3	57.4	P/P	45 - 99.0
2393976	Fenpropathrin	50.1	57.2	P/P	35 - 120
2393976	Gamma-BHC	105	78.5	P/P	63 - 128
2393976	Gamma-Chlordane	61.3	65.3	P/P	40 - 104
2393976	Heptachlor	55.3	45.5	P/P	36 - 97.0
2393976	Heptachlor Epoxide	97.4	92.2	P/P	49 - 184
2393976	Hexachlorobenzene	40.3	44.0	P/P	39 - 96.0
2393976	Kepone	126	122	P/P	10 - 217
2393976	Lambda-Cyhalothrin	47.5	60.9	P/P	21 - 193
2393976	Methoprene	44.4	52.8	P/P	20 - 106
2393976	Methoxychlor	62.4	63.6	P/P	53 - 118
2393976	MGK-264	67.5	69.0	P/P	40 - 118
2393976	Mirex	45.6	55.0	P/P	26 - 92.0
2393976	Oxychlordane	60.5	64.6	P/P	44 - 99.0
2393976	Permethrin	52.1	66.0	P/P	33 - 182
2393976	Phenothrin	35.0	47.1	P/P	10 - 129
2393976	Piperonyl Butoxide	82.0	113	P/P	10 - 211
2393976	Prallethrin	61.7	66.0	P/P	24 - 113
2393976	Tau-Fluvalinate	50.6	63.7	P/P	14 - 149
2393976	Tetramethrin	59.8	65.7	P/P	17 - 151

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427174

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393976	Trans-Nonachlor	59.2	69.4	P/P	42 - 102
2393976	Triclosan Methyl	68.5	69.2	P/P	48 - 108
2393976	Trifluralin	59.5	61.5	P/P	47 - 96.0
2394026	PCB-1016	63.8	66.9	P/P	46 - 111
2394026	PCB-1260	64.1	66.9	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P427174

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394026	Chlordane	86.2	84.0	P/P	53 - 126
2394026	Toxaphene	115	123	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P427187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393469	2,4-D	108	107	P/P	40 - 150
2393469	2,4,5-T	103	114	P/P	40 - 150
2393469	Acetaminophen	96.7	90.7	P/P	30 - 150
2393469	Acetamiprid	75.5	80.2	P/P	40 - 150
2393469	Afidopyrophen	71.6	62.4	P/P	30 - 150
2393469	Bentazon	60.8	66.5	P/P	30 - 150
2393469	Benzovindiflupyr	78.7	82.1	P/P	40 - 150
2393469	Carbamazepine	69.7	75.9	P/P	40 - 150
2393469	Clothianidin	106	103	P/P	40 - 150
2393469	Dinotefuran	99.2	99.0	P/P	40 - 150
2393469	Diuron	62.2	67.5	P/P	40 - 150
2393469	Fenuron	68.6	71.9	P/P	40 - 150
2393469	Fluridone	76.8	62.8	P/P	40 - 150
2393469	Hydrocodone	95.2	95.3	P/P	40 - 150
2393469	Ibuprofen	60.7	72.3	P/P	40 - 150
2393469	Imazapyr	121	102	P/P	40 - 150
2393469	Imidacloprid	138	136	P/P	40 - 150
2393469	Linuron	77.1	71.5	P/P	40 - 150
2393469	Mandestrobin	84.4	85.2	P/P	40 - 150
2393469	MCPP	115	116	P/P	40 - 150
2393469	Naproxen	74.3	59.0	P/P	40 - 150
2393469	Primidone	96.6	93.5	P/P	40 - 150
2393469	Pyraclostrobin	77.9	76.0	P/P	40 - 150
2393469	Silvex	122	108	P/P	40 - 150
2393469	Thiamethoxam	111	113	P/P	40 - 150
2393469	Tolfenpyrad	49.7	51.9	P/P	30 - 150
2393469	Triclopyr	111	111	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P427212

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393680	Acesulfame K	101	99.4	P/P	40 - 150
2393680	AMPA	89.6	83.5	P/P	40 - 150
2393680	Endothall	100	98.2	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P427212

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393680	Glufosinate	72.6	71.3	P/P	40 - 150
2393680	Glyphosate	119	105	P/P	40 - 150
2393680	Sucralose	90.6	95.2	P/P	40 - 150

Reference Method: SM 5310 B-2011
Batch ID: P427459

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393748	Organic Carbon	95.3	94.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P427215

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393812	Color (true)	1.34	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393740	Turbidity	8.70	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393770	Chloride	0.557	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393770	Sulfate	1.06	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393772	Ammonia-N	1.29	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393782	Ammonia-N	0.532	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393602	Kjeldahl Nitrogen	0.589	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427383

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393845	Kjeldahl Nitrogen	0.620	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393813	NO2NO3-N	0.578	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393782	NO2NO3-N	0.482	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427300

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393846	Total-P	0.774	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393952	Total-P	0.313	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P427174

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393976	Aldrin	3.08	Spike	P	0 - 41
2393976	Alpha-BHC	67.2	Spike	F	0 - 25
2393976	Alpha-Chlordane	0.746	Spike	P	0 - 33
2393976	Beta-BHC	8.28	Spike	P	0 - 36
2393976	Beta-Cyfluthrin	18.0	Spike	P	0 - 42
2393976	Bifenthrin	15.6	Spike	P	0 - 53
2393976	Carbophenothion	10.4	Spike	P	0 - 49
2393976	Chlorothalonil	33.7	Spike	P	0 - 71
2393976	Cis-Nonachlor	15.8	Spike	P	0 - 29
2393976	Cypermethrin	22.5	Spike	P	0 - 40
2393976	Dacthal	9.25	Spike	P	0 - 26
2393976	DDD-p,p'	1.57	Spike	P	0 - 39
2393976	DDE-p,p'	2.22	Spike	P	0 - 33
2393976	DDT-p,p'	5.94	Spike	P	0 - 40
2393976	Delta-BHC	1.97	Spike	P	0 - 37
2393976	Deltamethrin	28.6	Spike	P	0 - 100
2393976	Dichlobenil	5.33	Spike	P	0 - 40
2393976	Dicofol	6.44	Spike	P	0 - 31
2393976	Dieldrin	6.02	Spike	P	0 - 27
2393976	Endosulfan I	5.48	Spike	P	0 - 23
2393976	Endosulfan II	3.70	Spike	P	0 - 28
2393976	Endosulfan Sulfate	7.67	Spike	P	0 - 38
2393976	Endrin	2.96	Spike	P	0 - 63

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P427174

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393976	Endrin Aldehyde	18.7	Spike	P	0 - 60
2393976	Endrin Ketone	3.62	Spike	P	0 - 37
2393976	Esfenvalerate	31.9	Spike	P	0 - 52
2393976	Ethalfuralin	3.26	Spike	P	0 - 23
2393976	Fenpropathrin	13.1	Spike	P	0 - 32
2393976	Gamma-BHC	28.7	Spike	F	0 - 17
2393976	Gamma-Chlordane	6.39	Spike	P	0 - 40
2393976	Heptachlor	19.4	Spike	P	0 - 29
2393976	Heptachlor Epoxide	5.49	Spike	P	0 - 25
2393976	Hexachlorobenzene	8.75	Spike	P	0 - 36
2393976	Kepone	3.06	Spike	P	0 - 93
2393976	Lambda-Cyhalothrin	24.7	Spike	P	0 - 55
2393976	Methoprene	17.3	Spike	P	0 - 53
2393976	Methoxychlor	1.80	Spike	P	0 - 29
2393976	MGK-264	2.19	Spike	P	0 - 35
2393976	Mirex	18.7	Spike	P	0 - 46
2393976	Oxychlordane	6.60	Spike	P	0 - 29
2393976	Permethrin	23.5	Spike	P	0 - 44
2393976	Phenothrin	29.3	Spike	P	0 - 56
2393976	Piperonyl Butoxide	31.5	Spike	P	0 - 100
2393976	Prallethrin	6.78	Spike	P	0 - 42
2393976	Tau-Fluvalinate	22.9	Spike	P	0 - 54
2393976	Tetramethrin	9.35	Spike	P	0 - 51
2393976	Trans-Nonachlor	15.8	Spike	P	0 - 37
2393976	Triclosan Methyl	1.09	Spike	P	0 - 31
2393976	Trifluralin	3.30	Spike	P	0 - 30
2394026	PCB-1016	4.78	Spike	P	0 - 32
2394026	PCB-1260	4.29	Spike	P	0 - 31

Reference Method: EPA 8276

Batch ID: P427174

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394026	Chlordane	2.56	Spike	P	0 - 25
2394026	Toxaphene	7.08	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P427187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393469	2,4-D	0.488	Spike	P	0 - 30
2393469	2,4,5-T	10.2	Spike	P	0 - 30
2393469	Acetaminophen	6.42	Spike	P	0 - 30
2393469	Acetamiprid	6.01	Spike	P	0 - 30
2393469	Afidopyropen	13.7	Spike	P	0 - 30
2393469	Bentazon	6.82	Spike	P	0 - 30
2393469	Benzovindiflupyr	4.17	Spike	P	0 - 30
2393469	Carbamazepine	8.42	Spike	P	0 - 30
2393469	Clothianidin	2.82	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P427187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393469	Dinotefuran	0.222	Spike	P	0 - 30
2393469	Diuron	8.15	Spike	P	0 - 30
2393469	Fenuron	4.69	Spike	P	0 - 30
2393469	Fluridone	8.41	Spike	P	0 - 30
2393469	Hydrocodone	0.133	Spike	P	0 - 30
2393469	Ibuprofen	17.4	Spike	P	0 - 30
2393469	Imazapyr	10.7	Spike	P	0 - 30
2393469	Imidacloprid	0.901	Spike	P	0 - 30
2393469	Linuron	7.52	Spike	P	0 - 30
2393469	Mandestrobin	0.856	Spike	P	0 - 30
2393469	MCPPP	0.873	Spike	P	0 - 30
2393469	Naproxen	22.8	Spike	P	0 - 30
2393469	Primidone	3.25	Spike	P	0 - 30
2393469	Pyraclostrobin	2.50	Spike	P	0 - 30
2393469	Silvex	11.6	Spike	P	0 - 30
2393469	Thiamethoxam	1.74	Spike	P	0 - 30
2393469	Tolfenpyrad	4.22	Spike	P	0 - 30
2393469	Triclopyr	0.274	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P427212

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393680	Acesulfame K	1.54	Spike	P	0 - 30
2393680	AMPA	7.08	Spike	P	0 - 30
2393680	Endothall	1.89	Spike	P	0 - 30
2393680	Glufosinate	1.80	Spike	P	0 - 30
2393680	Glyphosate	11.5	Spike	P	0 - 30
2393680	Sucralose	3.61	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P427349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394010	Total Alkalinity	3.92	Sample	F	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P427644

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393812	TDS	5.30	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P427356

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394010	Fluoride	0.989	Spike	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P427459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393748	Organic Carbon	1.11	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2393826
Field Sample ID: 20030068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	86.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	82.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	58.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	62.9	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	42.8	P	30 - 101
EPA 8276	PCNB	93.2	P	48 - 121

Lab Sample ID: 2393827
Field Sample ID: 20030594

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	93.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	90.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	61.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	71.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	47.1	P	30 - 101
EPA 8276	PCNB	101	P	48 - 121

Lab Sample ID: 2393828
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	117	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.8	P	30 - 160
EPA 8321B	Diuron-d6	52.6	P	30 - 160
EPA 8321B	Endothall-d6	99.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	83.0	P	30 - 160
EPA 8321B	Primidone-d5	85.8	P	30 - 160
EPA 8321B	Sucralose-d6	93.0	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118016

Included Lab Sample IDs: 2393812, 2393814, 2393815

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

Reference Method: DEP SOP: NU-094-1

Run ID: A118035

Included Lab Sample IDs: 2393812, 2393814, 2393815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118068

Included Lab Sample IDs: 2393813, 2393817

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

Reference Method: EPA 8321B

Run ID: A118070

Included Lab Sample IDs: 2393828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	114	109	P/P	60 - 160
Endothall	100	99.4	P/P	60 - 160
Glufosinate	94.3	95.2	P/P	60 - 160
Glyphosate	96.2	91.3	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118076

Included Lab Sample IDs: 2393816

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	98.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A118077

Included Lab Sample IDs: 2393812, 2393814, 2393815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.1	94.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A118077

Included Lab Sample IDs: 2393812, 2393814, 2393815

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118078

Included Lab Sample IDs: 2393813, 2393817

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118109

Included Lab Sample IDs: 2393813, 2393817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.1	97.0	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A118123

Included Lab Sample IDs: 2393826, 2393827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.1		P	80 - 120
Toxaphene	94.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118124

Included Lab Sample IDs: 2393812, 2393814, 2393815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.5	98.7	P/P	90 - 110
Chloride	98.7	98.6	P/P	90 - 110
Sulfate	97.8	99.6	P/P	90 - 110
Sulfate	99.6	98.8	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A118128

Included Lab Sample IDs: 2393813, 2393816, 2393817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.0	97.2	P/P	90 - 110
Organic Carbon	97.4	95.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118148

Included Lab Sample IDs: 2393813, 2393816, 2393817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.7	96.7	P/P	90 - 110
Kjeldahl Nitrogen	96.7	90.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118162

Included Lab Sample IDs: 2393816

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A118203

Included Lab Sample IDs: 2393826, 2393827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	104		P	80 - 120
PCB-1260	101		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118209

Included Lab Sample IDs: 2393816

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

Reference Method: EPA 8270E

Run ID: A118251

Included Lab Sample IDs: 2393826, 2393827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.7		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	93.1		P	80 - 120
Beta-BHC	99.6		P	80 - 120
Beta-Cyfluthrin	91.2		P	80 - 120
Bifenthrin	101		P	80 - 120
Carbophenothion	96.1		P	80 - 120
Chlorothalonil	98.5		P	80 - 120
Cis-Nonachlor	103		P	80 - 120
Cypermethrin	95.8		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	105		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	92.8		P	80 - 120
Deltamethrin	89.3		P	80 - 120
Dichlobenil	107		P	80 - 120
Dicofol	97.2		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	95.3		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	97.2		P	80 - 120
Endrin Ketone	114		P	80 - 120
Esfenvalerate	93.2		P	80 - 120
Ethalfuralin	97.0		P	80 - 120
Fenpropathrin	92.6		P	80 - 120
Gamma-BHC	102		P	80 - 120
Gamma-Chlordane	105		P	80 - 120
Heptachlor	105		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	80.4		P	80 - 120
Lambda-Cyhalothrin	95.4		P	80 - 120
Methoprene	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A118251

Included Lab Sample IDs: 2393826, 2393827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	98.2		P	80 - 120
MGK-264	92.7		P	80 - 120
Mirex	107		P	80 - 120
Oxychlorane	102		P	80 - 120
Permethrin	96.6		P	80 - 120
Phenothrin	95.4		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	101		P	80 - 120
Tau-Fluvalinate	92.9		P	80 - 120
Tetramethrin	93.1		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	98.7		P	80 - 120

Reference Method: EPA 8321B

Run ID: A118309

Included Lab Sample IDs: 2393828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	98.2	96.9	P/P	50 - 150
2,4,5-T	101	101	P/P	50 - 150
Acetaminophen	96.3	96.6	P/P	60 - 160
Acetamiprid	107	115	P/P	50 - 150
Afidopyropen	91.3	86.1	P/P	50 - 150
Bentazon	129	124	P/P	50 - 160
Benzovindiflupyr	103	107	P/P	50 - 150
Carbamazepine	105	113	P/P	60 - 150
Clothianidin	107	105	P/P	60 - 150
Dinotefuran	107	112	P/P	50 - 150
Diuron	104	117	P/P	60 - 160
Fenuron	104	107	P/P	60 - 150
Fluridone	92.4	88.8	P/P	60 - 160
Hydrocodone	118	115	P/P	60 - 150
Ibuprofen	89.0	91.2	P/P	50 - 160
Imazapyr	103	101	P/P	50 - 150
Imidacloprid	94.7	99.9	P/P	60 - 150
Linuron	122	92.1	P/P	60 - 150
Mandestrobin	107	98.8	P/P	50 - 150
MCP	106	103	P/P	50 - 150
Naproxen	117	81.1	P/P	50 - 160
Primidone	104	92.7	P/P	60 - 150
Pyraclostrobin	103	106	P/P	60 - 150
Silvex	92.4	80.0	P/P	50 - 150
Thiamethoxam	112	119	P/P	50 - 150
Tolfenpyrad	105	104	P/P	60 - 150
Triclopyr	97.5	122	P/P	50 - 150

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements. Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP MS
DEP SOP: NU-094-1	Color (true)	101				1.34
EPA 180.1 Rev. 2.0	Turbidity	101				8.70
EPA 300.0 Rev. 2.1	Chloride	102	102	100		0.557
	Sulfate	100	99.5	97.9		1.06
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	92.6	93.8		1.29
	Ammonia-N	97.8	99.4	98.8		0.532
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	92.6	93.3		0.589
	Kjeldahl Nitrogen	101	98.7	99.5		0.620
EPA 353.2 Rev. 2.0	NO2NO3-N	100	96.5	97.5		0.578
	NO2NO3-N	103	99.6	99.2		0.482
EPA 365.1 Rev. 2.0	Total-P	99.0	101	100		0.774
	Total-P	101	97.1	96.8		0.313
EPA 8270E	Aldrin	35.9	38.4	39.6		3.08
	Alpha-BHC	84.1	96.4	47.9		67.2
	Alpha-Chlordane	53.9	59.5	59.1		0.746
	Beta-BHC	72.5	80.8	74.4		8.28
	Beta-Cyfluthrin	50.7	59.9	71.8		18.0
	Bifenthrin	43.5	59.3	69.3		15.6
	Carbophenothion	36.6	39.6	44.0		10.4
	Chlorothalonil	41.9	40.1	28.6		33.7
	Cis-Nonachlor	56.6	55.6	65.1		15.8
	Cypermethrin	51.1	61.4	77.0		22.5
	Dacthal	92.6	115	105		9.25
	DDD-p,p'	58.5	63.5	62.5		1.57
	DDE-p,p'	55.4	64.3	65.8		2.22
	DDT-p,p'	66.3	72.3	76.7		5.94
	Delta-BHC	75.7	79.7	78.2		1.97
	Deltamethrin	54.3	67.5	90.1		28.6
	Dichlobenil	56.7	48.7	51.4		5.33
	Dicofol	51.8	56.1	52.6		6.44
	Dieldrin	62.9	66.9	71.1		6.02
	Endosulfan I	64.1	66.1	69.8		5.48
	Endosulfan II	71.6	70.4	73.1		3.70
	Endosulfan Sulfate	71.7	72.6	67.3		7.67
	Endrin	62.2	69.4	71.4		2.96
	Endrin Aldehyde	59.0	62.3	51.6		18.7
	Endrin Ketone	87.5	97.1	93.7		3.62
	Esfenvalerate	43.6	53.8	74.2		31.9
	Ethalfuralin	54.2	59.3	57.4		3.26
	Fenpropathrin	48.3	50.1	57.2		13.1
	Gamma-BHC	88.5	105	78.5		28.7
	Gamma-Chlordane	55.5	61.3	65.3		6.39
	Heptachlor	50.8	55.3	45.5		19.4
	Heptachlor Epoxide	79.1	97.4	92.2		5.49
	Hexachlorobenzene	40.1	40.3	44.0		8.75
	Kepone	125	126	122		3.06
	Lambda-Cyhalothrin	36.0	47.5	60.9		24.7
	Methoprene	35.2	44.4	52.8		17.3
	Methoxychlor	61.0	62.4	63.6		1.80
	MGK-264	60.5	67.5	69.0		2.19
	Mirex	40.1	45.6	55.0		18.7
	Oxychlordane	54.7	60.5	64.6		6.60
	PCB-1016	76.9	63.8	66.9		4.78
	PCB-1260	76.1	64.1	66.9		4.29

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Permethrin	42.7	52.1	66.0			23.5
	Phenothrin	31.6	35.0	47.1			29.3
	Piperonyl Butoxide	75.0	82.0	113			31.5
	Prallethrin	59.5	61.7	66.0			6.78
	Tau-Fluvalinate	37.8	50.6	63.7			22.9
	Tetramethrin	62.1	59.8	65.7			9.35
	Trans-Nonachlor	55.4	59.2	69.4			15.8
	Triclosan Methyl	64.9	68.5	69.2			1.09
	Trifluralin	56.1	59.5	61.5			3.30
EPA 8276	Chlordane	80.5	86.2	84.0			2.56
	Toxaphene	82.9	115	123			7.08
EPA 8321B	2,4-D	99.8	107	108			0.488
	2,4,5-T	105	114	103			10.2
	Acesulfame K	96.8	101	99.4			1.54
	Acetaminophen	93.7	90.7	96.7			6.42
	Acetamiprid	86.9	80.2	75.5			6.01
	Afidopyropen	69.4	62.4	71.6			13.7
	AMPA	136	89.6	83.5			7.08
	Bentazon	93.1	66.5	60.8			6.82
	Benzovindiflupyr	83.3	82.1	78.7			4.17
	Carbamazepine	92.9	75.9	69.7			8.42
	Clothianidin	92.9	103	106			2.82
	Dinotefuran	97.3	99.0	99.2			0.222
	Diuron	81.1	67.5	62.2			8.15
	Endothall	96.2	100	98.2			1.89
	Fenuron	91.2	71.9	68.6			4.69
	Fluridone	73.4	62.8	76.8			8.41
	Glufosinate	98.1	72.6	71.3			1.80
	Glyphosate	126	119	105			11.5
	Hydrocodone	99.7	95.3	95.2			0.133
	Ibuprofen	72.1	60.7	72.3			17.4
	Imazapyr	95.8	102	121			10.7
	Imidacloprid	86.2	136	138			0.901
	Linuron	75.5	71.5	77.1			7.52
	Mandestrobin	85.9	85.2	84.4			0.856
	MCPP	104	116	115			0.873
	Naproxen	97.3	59.0	74.3			22.8
	Primidone	83.1	93.5	96.6			3.25
	Pyraclostrobin	74.4	76.0	77.9			2.50
	Silvex	99.0	108	122			11.6
	Sucralose	99.9	90.6	95.2			3.61
	Thiamethoxam	92.8	113	111			1.74
	Tolfenpyrad	49.7	51.9	49.7			4.22
	Triclopyr	92.6	111	111			0.274
SM 2320 B-2011	Total Alkalinity	95.8				3.92	
SM 2540 C-2015	TDS	105				5.30	
SM 2540 D-2015	TSS	99.0					
SM 4500-F- C-2011	Fluoride	103					0.989
SM 5310 B-2011	Organic Carbon	96.0	95.3	94.0			1.11

Reference Method Descriptions

Method	Description	Associated Samples
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Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2393812, 2393814, 2393815
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2393812, 2393814, 2393815
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2393812, 2393814, 2393815
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2393812, 2393814, 2393815
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2393813, 2393816, 2393817
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2393813, 2393816, 2393817
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2393813, 2393816, 2393817
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2393813, 2393816, 2393817
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2393826, 2393827
EPA 8270E	PCBs in water matrices by GC/MS/MS	2393826, 2393827
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2393826, 2393827
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2393828
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2393812, 2393814, 2393815
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2393812, 2393814, 2393815
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2393812, 2393814, 2393815
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2393812, 2393814, 2393815
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2393813, 2393816, 2393817

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	03/15/2023			03/15/2023 17:26	Alexis Price	2393812
	03/15/2023			03/15/2023 17:27	Alexis Price	2393814, 2393815
EPA 180.1 Rev. 2.0	03/15/2023			03/15/2023 15:05	Anna M. Plaviak	2393812
	03/15/2023			03/15/2023 15:06	Anna M. Plaviak	2393814
	03/15/2023			03/15/2023 15:08	Anna M. Plaviak	2393815
EPA 300.0 Rev. 2.1	03/15/2023			03/23/2023 06:43	Judith K. Clark	2393812
	03/15/2023			03/23/2023 06:58	Judith K. Clark	2393814
	03/15/2023			03/23/2023 07:43	Judith K. Clark	2393815
EPA 350.1 Rev. 2.0	03/15/2023			03/21/2023 12:00	Judith K. Clark	2393813
	03/15/2023			03/21/2023 12:08	Judith K. Clark	2393817
	03/15/2023			03/23/2023 11:46	Khloe J Berg	2393816
EPA 351.2 Rev. 2.0	03/15/2023	03/21/2023 13:15	Simonne.V. Calhoun	03/22/2023 16:15	Judith K. Clark	2393816
	03/15/2023	03/21/2023 13:15	Simonne.V. Calhoun	03/22/2023 16:23	Judith K. Clark	2393813
EPA 353.2 Rev. 2.0	03/15/2023	03/21/2023 13:15	Simonne.V. Calhoun	03/22/2023 16:25	Judith K. Clark	2393817
	03/15/2023			03/20/2023 10:16	Beverly Y. Sanders	2393813
	03/15/2023			03/20/2023 10:17	Beverly Y. Sanders	2393817
EPA 365.1 Rev. 2.0	03/15/2023			03/27/2023 11:38	Beverly Y. Sanders	2393816
	03/15/2023	03/17/2023 15:18	Adam P Silver	03/17/2023 18:03	James L Waggeberby	2393813
	03/15/2023	03/17/2023 15:18	Adam P Silver	03/17/2023 18:05	James L Waggeberby	2393817
EPA 8270E	03/15/2023	03/17/2023 15:18	Adam P Silver	03/20/2023 11:04	James L Waggeberby	2393816
	03/15/2023	03/16/2023 08:00	Fe-Val Siddell	03/22/2023 23:05	Julie Wi	2393826
	03/15/2023	03/16/2023 08:00	Fe-Val Siddell	03/22/2023 23:35	Julie Wi	2393827
EPA 8276	03/15/2023	03/16/2023 08:00	Fe-Val Siddell	03/23/2023 00:09	Julie Wi	2393826
	03/15/2023	03/16/2023 08:00	Fe-Val Siddell	03/23/2023 00:39	Julie Wi	2393827
	03/15/2023	03/16/2023 08:00	Fe-Val Siddell	03/18/2023 06:39	Lipi Saha	2393826
EPA 8321B	03/15/2023	03/16/2023 08:00	Fe-Val Siddell	03/18/2023 07:35	Lipi Saha	2393827
	03/15/2023	03/16/2023 09:00	Hoor Shaik	03/29/2023 22:16	Juyoung Kim	2393828
	03/15/2023	03/16/2023 09:00	Hoor Shaik	03/30/2023 14:22	Juyoung Kim	2393828
SM 2320 B-2011	03/15/2023	03/17/2023 07:21	Manjita Shrestha	03/17/2023 18:37	Manjita Shrestha	2393828
	03/15/2023	03/17/2023 07:21	Manjita Shrestha	03/18/2023 14:19	Manjita Shrestha	2393828
	03/15/2023			03/18/2023 10:43	Dale L. Simmons	2393812
SM 2540 C-2015	03/15/2023			03/18/2023 10:57	Dale L. Simmons	2393815
	03/15/2023			03/18/2023 13:00	Dale L. Simmons	2393814
	03/15/2023			03/17/2023 15:51	Yijie Li	2393812, 2393814, 2393815
SM 2540 D-2015	03/15/2023			03/17/2023 15:51	Yijie Li	2393812, 2393814, 2393815
SM 4500-F- C-2011	03/15/2023			03/18/2023 10:43	Dale L. Simmons	2393812
	03/15/2023			03/18/2023 10:57	Dale L. Simmons	2393815
	03/15/2023			03/18/2023 13:00	Dale L. Simmons	2393814
SM 5310 B-2011	03/15/2023			03/22/2023 06:42	Elise M. Gillis	2393813
	03/15/2023			03/22/2023 07:27	Elise M. Gillis	2393816

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	03/15/2023			03/22/2023 07:42	Elise M. Gillis	2393817