

Chemical Analysis Report

NE-DIST-2022-08-30-01

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

Event Description: **Palm Coast**
Request ID: **RQ-2022-08-29-13**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
Suite 100
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 16-SEP-2022 17:09



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: Bull Creek Ditch 1 mile upstream of Dead lake Collection Date/Time: 08/29/2022 10:15

Field ID: G2NE1194

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352971	EPA 8270E	Aldrin	0.67	U	ng/L	P418930	
		Alpha-BHC	0.10	U	ng/L	P418930	
		Alpha-Chlordane	0.21	U	ng/L	P418930	
		PCB-1016	2.1	U	ng/L	P418930	
		Beta-BHC	0.10	U	ng/L	P418930	MS
		PCB-1221	2.1	U	ng/L	P418930	
		Beta-Cyfluthrin	1.3	U	ng/L	P418930	
		PCB-1232	2.1	U	ng/L	P418930	
		Bifenthrin	0.51	U	ng/L	P418930	
		PCB-1242	2.1	U	ng/L	P418930	
		PCB-1248	2.1	U	ng/L	P418930	
		Chlorothalonil	1.3	U	ng/L	P418930	
		PCB-1254	2.1	U	ng/L	P418930	
		Cis-Nonachlor	0.21	U	ng/L	P418930	
		PCB-1260	2.1	U	ng/L	P418930	
		Cypermethrin	1.5	U	ng/L	P418930	
		Dacthal	0.15	U	ng/L	P418930	
		DDD-p,p'	0.26	U	ng/L	P418930	
		DDE-p,p'	0.21	U	ng/L	P418930	
		DDT-p,p'	0.26	U	ng/L	P418930	
		Delta-BHC	0.41	U	ng/L	P418930	
		Deltamethrin	1.3	U	ng/L	P418930	
		Dichlobenil	0.26	U	ng/L	P418930	
		Dicofol	1.3	U	ng/L	P418930	
		Dieldrin	0.41	U	ng/L	P418930	
		Endosulfan I	0.41	U	ng/L	P418930	
		Endosulfan II	0.41	U	ng/L	P418930	
		Endosulfan Sulfate	0.31	U	ng/L	P418930	
		Endrin	0.41	U	ng/L	P418930	
		Endrin Aldehyde	0.77	U	ng/L	P418930	
		Endrin Ketone	0.41	UJ	ng/L	P418930	CCV, LCS
		Esfenvalerate	0.77	U	ng/L	P418930	
		Ethalfuralin	0.15	U	ng/L	P418930	
		Fenpropathrin	0.26	U	ng/L	P418930	
		Gamma-BHC	0.13	U	ng/L	P418930	
		Gamma-Chlordane	0.21	U	ng/L	P418930	
		Heptachlor	0.21	U	ng/L	P418930	
		Heptachlor Epoxide	0.26	U	ng/L	P418930	
		Hexachlorobenzene**	1.0	U	ng/L	P418930	
		Kepone	5.1	U	ng/L	P418930	
		Lambda-Cyhalothrin	0.77	U	ng/L	P418930	
		Methoprene	0.77	U	ng/L	P418930	
		Methoxychlor	0.31	U	ng/L	P418930	
		MGK-264	0.21	U	ng/L	P418930	

Field ID: G2NE1194

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352971	EPA 8270E	Mirex	0.36	U	ng/L	P418930	
		Oxychlordane	0.31	U	ng/L	P418930	
		Permethrin	1.6	U	ng/L	P418930	
		Phenothrin	0.93	U	ng/L	P418930	
		Piperonyl Butoxide	0.15	U	ng/L	P418930	
		Prallethrin	2.1	U	ng/L	P418930	
		Tau-Fluvalinate	0.26	U	ng/L	P418930	
		Tetramethrin	0.77	U	ng/L	P418930	
		Trans-Nonachlor	0.21	U	ng/L	P418930	
		Triclosan Methyl	0.15	U	ng/L	P418930	
		Trifluralin	0.21	U	ng/L	P418930	
		Chlordane	2.6	U	ng/L	P418930	
		Toxaphene	15	U	ng/L	P418930	
2352976	EPA 8321B	2,4-D	0.33		ug/L	P418839	
		Acesulfame K	0.10	U	ug/L	P418802	
		2,4,5-T	0.0040	U	ug/L	P418839	
		AMPA	1.5		ug/L	P418802	
		Acetaminophen	0.0080	U	ug/L	P418839	
		Acetamiprid	0.0020	U	ug/L	P418839	
		Endothall	0.25	U	ug/L	P418802	
		Glufosinate	0.10	U	ug/L	P418802	
		Glyphosate	1.9		ug/L	P418802	
		Afidopyropen	0.0042	I	ug/L	P418839	
		Bentazon	0.40		ug/L	P418839	
		Sucralose	0.088		ug/L	P418802	
		Benzovindiflupyr	0.033		ug/L	P418839	
		Carbamazepine	8.0E-04	U	ug/L	P418839	
		Clothianidin	0.0020	U	ug/L	P418839	
		Dinotefuran	0.0020	U	ug/L	P418839	
		Diuron	0.0020	U	ug/L	P418839	
		Fenuron	0.032	U	ug/L	P418839	
		Fluridone	8.0E-04	U	ug/L	P418839	
		Imazapyr	0.58		ug/L	P418839	
		Hydrocodone	0.0020	U	ug/L	P418839	
		Ibuprofen	0.080	U	ug/L	P418839	
		Imidacloprid	0.087		ug/L	P418839	
		Linuron	0.0040	U	ug/L	P418839	
		Mandestrobin	0.0020	U	ug/L	P418839	
		MCPP	0.0040	U	ug/L	P418839	
		Naproxen	0.0080	U	ug/L	P418839	
		Primidone	0.0040	U	ug/L	P418839	MS
		Pyraclostrobin	0.0020	U	ug/L	P418839	
		Silvex	0.0040	U	ug/L	P418839	
		Thiamethoxam	0.018		ug/L	P418839	
		Tolfenpyrad	0.0020	U	ug/L	P418839	

Field ID: G2NE1194

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352976	EPA 8321B	Triclopyr	0.0040	U	ug/L	P418839	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Bull Creek East ditch at Water Oak

Collection Date/Time: 08/29/2022 11:00

Field ID: G2NE1213

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352973	EPA 8270E	Aldrin	0.76	U	ng/L	P418930	
		Alpha-BHC	0.12	U	ng/L	P418930	
		Alpha-Chlordane	0.23	U	ng/L	P418930	
		PCB-1016	2.3	U	ng/L	P418930	
		Beta-BHC	0.12	U	ng/L	P418930	MS
		PCB-1221	2.3	U	ng/L	P418930	
		Beta-Cyfluthrin	1.5	U	ng/L	P418930	
		PCB-1232	2.3	U	ng/L	P418930	
		Bifenthrin	0.58	U	ng/L	P418930	
		PCB-1242	2.3	U	ng/L	P418930	
		PCB-1248	2.3	U	ng/L	P418930	
		Chlorothalonil	1.5	U	ng/L	P418930	
		PCB-1254	2.3	U	ng/L	P418930	
		Cis-Nonachlor	0.23	U	ng/L	P418930	
		PCB-1260	2.3	U	ng/L	P418930	
		Cypermethrin	1.7	U	ng/L	P418930	
		Dacthal	0.17	U	ng/L	P418930	
		DDD-p,p'	0.29	U	ng/L	P418930	
		DDE-p,p'	0.23	U	ng/L	P418930	
		DDT-p,p'	0.29	U	ng/L	P418930	
		Delta-BHC	0.47	U	ng/L	P418930	
		Deltamethrin	1.5	U	ng/L	P418930	
		Dichlobenil	0.29	U	ng/L	P418930	
		Dicofol	1.5	U	ng/L	P418930	
		Dieldrin	0.47	U	ng/L	P418930	
		Endosulfan I	0.47	U	ng/L	P418930	
		Endosulfan II	0.47	U	ng/L	P418930	
		Endosulfan Sulfate	0.35	U	ng/L	P418930	
		Endrin	0.47	U	ng/L	P418930	
		Endrin Aldehyde	0.87	U	ng/L	P418930	
		Endrin Ketone	0.47	UJ	ng/L	P418930	CCV, LCS
		Esfenvalerate	0.87	U	ng/L	P418930	
		Ethalfuralin	0.17	U	ng/L	P418930	
		Fenpropathrin	0.29	U	ng/L	P418930	
		Gamma-BHC	0.15	U	ng/L	P418930	
		Gamma-Chlordane	0.23	U	ng/L	P418930	
		Heptachlor	0.23	U	ng/L	P418930	
		Heptachlor Epoxide	0.29	U	ng/L	P418930	
		Hexachlorobenzene**	1.2	U	ng/L	P418930	
		Kepone	5.8	U	ng/L	P418930	
		Lambda-Cyhalothrin	0.87	U	ng/L	P418930	
		Methoprene	0.87	U	ng/L	P418930	
		Methoxychlor	0.35	U	ng/L	P418930	
		MGK-264	0.23	U	ng/L	P418930	

Field ID: G2NE1213

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352973	EPA 8270E	Mirex	0.41	U	ng/L	P418930	
		Oxychlordane	0.35	U	ng/L	P418930	
		Permethrin	1.9	U	ng/L	P418930	
		Phenothrin	1.0	U	ng/L	P418930	
		Piperonyl Butoxide	1.0		ng/L	P418930	
		Prallethrin	2.3	U	ng/L	P418930	
		Tau-Fluvalinate	0.29	U	ng/L	P418930	
		Tetramethrin	0.87	U	ng/L	P418930	
		Trans-Nonachlor	0.23	U	ng/L	P418930	
		Triclosan Methyl	0.17	U	ng/L	P418930	
		Trifluralin	0.23	U	ng/L	P418930	
	EPA 8276	Chlordane	2.9	U	ng/L	P418930	
		Toxaphene	17	U	ng/L	P418930	

Ref. Method and Comment:

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: BULL CREEK DITCH downstream of East ditch Collection Date/Time: 08/29/2022 11:15

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352972	EPA 8270E	Aldrin	0.67	U	ng/L	P418930	
		Alpha-BHC	0.10	U	ng/L	P418930	
		Alpha-Chlordane	0.21	U	ng/L	P418930	
		PCB-1016	2.1	U	ng/L	P418930	
		Beta-BHC	0.10	U	ng/L	P418930	MS
		PCB-1221	2.1	U	ng/L	P418930	
		Beta-Cyfluthrin	1.3	U	ng/L	P418930	
		PCB-1232	2.1	U	ng/L	P418930	
		Bifenthrin	0.52	U	ng/L	P418930	
		PCB-1242	2.1	U	ng/L	P418930	
		PCB-1248	2.1	U	ng/L	P418930	
		Chlorothalonil	1.3	U	ng/L	P418930	
		PCB-1254	2.1	U	ng/L	P418930	
		Cis-Nonachlor	0.21	U	ng/L	P418930	
		PCB-1260	2.1	U	ng/L	P418930	
		Cypermethrin	1.5	U	ng/L	P418930	
		Dacthal	0.15	U	ng/L	P418930	
		DDD-p,p'	0.26	U	ng/L	P418930	
		DDE-p,p'	0.21	U	ng/L	P418930	
		DDT-p,p'	0.26	U	ng/L	P418930	
		Delta-BHC	0.41	U	ng/L	P418930	
		Deltamethrin	1.3	U	ng/L	P418930	
		Dichlobenil	0.26	U	ng/L	P418930	
		Dicofol	1.3	U	ng/L	P418930	
		Dieldrin	0.41	U	ng/L	P418930	
		Endosulfan I	0.41	U	ng/L	P418930	
		Endosulfan II	0.41	U	ng/L	P418930	
		Endosulfan Sulfate	0.31	U	ng/L	P418930	
		Endrin	0.41	U	ng/L	P418930	
		Endrin Aldehyde	0.77	U	ng/L	P418930	
		Endrin Ketone	0.41	UJ	ng/L	P418930	CCV, LCS
		Esfenvalerate	0.77	U	ng/L	P418930	
		Ethalfuralin	0.15	U	ng/L	P418930	
		Fenpropathrin	0.26	U	ng/L	P418930	
		Gamma-BHC	0.13	U	ng/L	P418930	
		Gamma-Chlordane	0.21	U	ng/L	P418930	
		Heptachlor	0.21	U	ng/L	P418930	
		Heptachlor Epoxide	0.26	U	ng/L	P418930	
		Hexachlorobenzene**	1.0	U	ng/L	P418930	
		Kepone	5.2	U	ng/L	P418930	
		Lambda-Cyhalothrin	0.77	U	ng/L	P418930	
		Methoprene	0.77	U	ng/L	P418930	
		Methoxychlor	0.31	U	ng/L	P418930	
		MGK-264	0.21	U	ng/L	P418930	

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352972	EPA 8270E	Mirex	0.36	U	ng/L	P418930	
		Oxychlordane	0.31	U	ng/L	P418930	
		Permethrin	1.6	U	ng/L	P418930	
		Phenothrin	0.93	U	ng/L	P418930	
		Piperonyl Butoxide	0.15	U	ng/L	P418930	
		Prallethrin	2.1	U	ng/L	P418930	
		Tau-Fluvalinate	0.26	U	ng/L	P418930	
		Tetramethrin	0.77	U	ng/L	P418930	
		Trans-Nonachlor	0.21	U	ng/L	P418930	
		Triclosan Methyl	0.15	U	ng/L	P418930	
		Trifluralin	0.21	U	ng/L	P418930	
		Chlordane	2.6	U	ng/L	P418930	
		Toxaphene	15	U	ng/L	P418930	
2352977	EPA 8321B	Acesulfame K	0.10	U	ug/L	P418802	
		2,4-D	0.55		ug/L	P418839	
		AMPA	5.8		ug/L	P418802	
		2,4,5-T	0.0040	U	ug/L	P418839	
		Acetaminophen	0.0080	U	ug/L	P418839	
		Endothall	0.25	U	ug/L	P418802	
		Acetamiprid	0.0020	U	ug/L	P418839	
		Glufosinate	0.10	U	ug/L	P418802	
		Glyphosate	24	Q	ug/L	P418802	
		Afidopyropen	0.0020	U	ug/L	P418839	
		Sucralose	0.027	I	ug/L	P418802	
		Bentazon	0.37		ug/L	P418839	
		Benzovindiflupyr	0.020		ug/L	P418839	
		Carbamazepine	8.0E-04	U	ug/L	P418839	
		Clothianidin	0.0020	U	ug/L	P418839	
		Dinotefuran	0.0020	U	ug/L	P418839	
		Diuron	0.0020	U	ug/L	P418839	
		Fenuron	0.032	U	ug/L	P418839	
		Fluridone	8.0E-04	U	ug/L	P418839	
		Imazapyr	0.85		ug/L	P418839	
		Hydrocodone	0.0020	U	ug/L	P418839	
		Ibuprofen	0.080	U	ug/L	P418839	
		Imidacloprid	0.066		ug/L	P418839	
		Linuron	0.0040	U	ug/L	P418839	
		Mandestrobin	0.0020	U	ug/L	P418839	
		MCPP	0.0040	U	ug/L	P418839	
		Naproxen	0.0080	U	ug/L	P418839	
		Primidone	0.0040	U	ug/L	P418839	MS
		Pyraclostrobin	0.0020	U	ug/L	P418839	
		Silvex	0.0040	U	ug/L	P418839	
		Thiamethoxam	0.058		ug/L	P418839	
		Tolfenpyrad	0.0020	U	ug/L	P418839	

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352977	EPA 8321B	Triclopyr	0.0040	U	ug/L	P418839	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: Q-Glyphosate analyzed and reported beyond holding time due to required sample dilution.

Sample Location: Bulow CR @ Walter Boardman Ln

Collection Date/Time: 08/29/2022 12:35

Field ID: 27010967

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352962	EPA 180.1 Rev. 2.0	Turbidity	6.1	A	NTU	P418880	
	SM 2320 B-2011	Total Alkalinity	123		mg CaCO3/L	P419276	
	SM 2540 D-2011	TSS	11	AJ	mg/L	P419323	RPD
	SM 4500-F- C-2011	Fluoride	0.60		mg F/L	P419280	
2352963	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P419005	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P419095	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P418994	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P418985	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P419189	

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418880

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419095

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418985

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

Reference Method: EPA 8270E
Batch ID: P418930

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
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418930

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418930

Component	Result	Code	Units
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
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: P418930

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P418802

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P418802

Component	Result	Code	Units
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: P418839

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P419276

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

Reference Method: SM 2540 D-2011

Batch ID: P419323

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P419280

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419189

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419095

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: P418994

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418985

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

Reference Method: EPA 8270E
Batch ID: P418930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.8		P	10 - 92.0
Alpha-BHC	94.9		P	75 - 107
Alpha-Chlordane	70.7		P	50 - 108
Beta-BHC	108		P	36 - 138
Beta-Cyfluthrin	66.8		P	20 - 161
Bifenthrin	49.3		P	10 - 119
Chlorothalonil	67.5		P	26 - 186
Cis-Nonachlor	68.2		P	42 - 119
Cypermethrin	70.1		P	22 - 150
Dacthal	90.5		P	72 - 119
DDD-p,p'	78.1		P	45 - 107
DDE-p,p'	74.3		P	48 - 106
DDT-p,p'	71.8		P	48 - 110
Delta-BHC	113		P	54 - 140
Deltamethrin	45.3		P	22 - 189
Dichlobenil	89.4		P	36 - 117
Dicofol	76.7		P	46 - 155
Dieldrin	78.9		P	54 - 110
Endosulfan I	76.2		P	59 - 105
Endosulfan II	87.3		P	51 - 118
Endosulfan Sulfate	97.6		P	57 - 121
Endrin	82.4		P	10 - 120

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Aldehyde	68.3		P	34 - 118
Endrin Ketone	56.9		F	69 - 177
Esfenvalerate	63.2		P	23 - 168
Ethalfuralin	79.4		P	49 - 99.0
Fenpropathrin	72.1		P	34 - 117
Gamma-BHC	92.0		P	72 - 117
Gamma-Chlordane	68.5		P	43 - 106
Heptachlor	68.2		P	41 - 98.0
Heptachlor Epoxide	79.7		P	57 - 106
Hexachlorobenzene	74.3		P	36 - 99.0
Kepone	150		P	16 - 215
Lambda-Cyhalothrin	57.9		P	21 - 177
Methoprene	54.1		P	10 - 119
Methoxychlor	79.7		P	60 - 112
MGK-264	79.4		P	26 - 122
Mirex	57.1		P	10 - 169
Oxychlordane	76.8		P	43 - 105
PCB-1016	87.3		P	48 - 112
PCB-1260	85.9		P	44 - 118
Permethrin	67.8		P	24 - 148
Phenothrin	46.4		P	10 - 106
Piperonyl Butoxide	67.8		P	10 - 139
Prallethrin	71.5		P	17 - 109
Tau-Fluvalinate	53.8		P	13 - 131
Tetramethrin	97.7		P	10 - 132
Trans-Nonachlor	74.0		P	44 - 106
Triclosan Methyl	78.4		P	59 - 109
Trifluralin	76.2		P	44 - 101

Reference Method: EPA 8276

Batch ID: P418930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	95.0		P	61 - 116
Toxaphene	99.1		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P418802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	104		P	40 - 150
Endothall	97.1		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	99.6		P	40 - 150
Sucralose	97.7		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	72.6		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P418839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	67.1		P	40 - 150
Acetaminophen	108		P	30 - 150
Acetamiprid	72.1		P	40 - 150
Afidopyropen	62.7		P	30 - 150
Bentazon	82.1		P	30 - 150
Benzovindiflupyr	70.1		P	40 - 150
Carbamazepine	81.4		P	40 - 150
Clothianidin	77.8		P	40 - 150
Dinotefuran	73.6		P	40 - 150
Diuron	89.0		P	40 - 150
Fenuron	99.5		P	40 - 150
Fluridone	84.5		P	40 - 150
Hydrocodone	112		P	40 - 150
Ibuprofen	59.2		P	40 - 150
Imazapyr	73.8		P	40 - 150
Imidacloprid	93.3		P	40 - 150
Linuron	90.9		P	40 - 150
Mandestrobin	86.3		P	40 - 150
MCPP	75.2		P	40 - 150
Naproxen	84.3		P	40 - 150
Primidone	70.9		P	40 - 150
Pyraclostrobin	83.0		P	40 - 150
Silvex	59.1		P	40 - 150
Thiamethoxam	97.2		P	40 - 150
Tolfenpyrad	44.1		P	30 - 150
Triclopyr	54.9		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P419276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P419280

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P419189

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352652	Ammonia-N	101	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419095

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353259	Kjeldahl Nitrogen	97.3	95.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352460	NO2NO3-N	98.4	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352345	Total-P	97.0	96.8	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P418930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353005	PCB-1016	88.7	90.7	P/P	46 - 111
2353005	PCB-1260	79.8	85.2	P/P	45 - 114
2353048	Aldrin	51.1	53.8	P/P	20 - 82.0
2353048	Alpha-BHC	85.8	81.7	P/P	71 - 109
2353048	Alpha-Chlordane	66.4	67.7	P/P	42 - 106
2353048	Beta-BHC	57.1	54.2	F/F	69 - 180
2353048	Beta-Cyfluthrin	66.4	74.6	P/P	18 - 175
2353048	Bifenthrin	50.4	55.3	P/P	21 - 128
2353048	Chlorothalonil	148	154	P/P	10 - 300
2353048	Cis-Nonachlor	57.1	63.2	P/P	34 - 106
2353048	Cypermethrin	63.7	71.6	P/P	22 - 158
2353048	Dacthal	82.5	84.1	P/P	54 - 116
2353048	DDD-p,p'	60.6	63.3	P/P	34 - 107
2353048	DDE-p,p'	64.2	65.8	P/P	33 - 110
2353048	DDT-p,p'	58.8	60.5	P/P	50 - 122
2353048	Delta-BHC	124	125	P/P	77 - 193
2353048	Deltamethrin	62.4	86.3	P/P	10 - 195
2353048	Dichlobenil	63.4	60.7	P/P	25 - 113
2353048	Dicofol	64.9	66.7	P/P	38 - 247
2353048	Dieldrin	64.3	66.0	P/P	45 - 118
2353048	Endosulfan I	73.8	74.0	P/P	51 - 106
2353048	Endosulfan II	70.6	71.4	P/P	37 - 122
2353048	Endosulfan Sulfate	79.2	86.0	P/P	43 - 132
2353048	Endrin	71.3	71.4	P/P	29 - 101
2353048	Endrin Aldehyde	72.3	71.9	P/P	19 - 110
2353048	Endrin Ketone	79.6	80.3	P/P	60 - 140
2353048	Esfenvalerate	72.3	80.3	P/P	26 - 199
2353048	Ethalfuralin	62.8	65.0	P/P	45 - 99.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P418930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353048	Fenpropathrin	54.5	61.0	P/P	35 - 120
2353048	Gamma-BHC	96.4	96.5	P/P	63 - 128
2353048	Gamma-Chlordane	63.8	64.5	P/P	40 - 104
2353048	Heptachlor	54.2	56.4	P/P	36 - 97.0
2353048	Heptachlor Epoxide	66.1	68.7	P/P	49 - 184
2353048	Hexachlorobenzene	62.6	61.1	P/P	39 - 96.0
2353048	Kepone	174	193	P/P	10 - 217
2353048	Lambda-Cyhalothrin	66.8	74.2	P/P	21 - 193
2353048	Methoprene	60.1	66.0	P/P	20 - 106
2353048	Methoxychlor	65.3	66.0	P/P	53 - 118
2353048	MGK-264	79.8	82.0	P/P	40 - 118
2353048	Mirex	53.9	56.0	P/P	26 - 92.0
2353048	Oxychlordane	73.0	73.8	P/P	44 - 99.0
2353048	Permethrin	61.5	68.2	P/P	33 - 182
2353048	Phenothrin	69.8	72.5	P/P	10 - 129
2353048	Piperonyl Butoxide	89.0	95.7	P/P	10 - 211
2353048	Prallethrin	77.4	79.0	P/P	24 - 113
2353048	Tau-Fluvalinate	67.6	74.7	P/P	14 - 149
2353048	Tetramethrin	91.4	103	P/P	17 - 151
2353048	Trans-Nonachlor	62.8	67.3	P/P	42 - 102
2353048	Triclosan Methyl	69.2	69.3	P/P	48 - 108
2353048	Trifluralin	63.6	65.8	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P418930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353005	Chlordane	90.3	88.4	P/P	53 - 126
2353005	Toxaphene	113	110	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P418802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352891	Acesulfame K	99.6	98.9	P/P	40 - 150
2352891	AMPA	105	108	P/P	40 - 150
2352891	Endothall	92.9	96.0	P/P	40 - 150
2352891	Glufosinate	96.5	94.1	P/P	40 - 150
2352891	Glyphosate	87.9	83.3	P/P	40 - 150
2352891	Sucralose	95.8	95.0	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352724	2,4-D	77.7	80.5	P/P	40 - 150
2352724	2,4,5-T	81.7	83.6	P/P	40 - 150
2352724	Acetaminophen	74.0	83.6	P/P	30 - 150
2352724	Acetamiprid	47.7	45.5	P/P	40 - 150
2352724	Afidopyropen	55.7	67.7	P/P	30 - 150
2352724	Bentazon	124	121	P/P	30 - 150
2352724	Benzovindiflupyr	78.3	83.5	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P418839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352724	Carbamazepine	74.1	76.9	P/P	40 - 150
2352724	Clothianidin	49.8	54.6	P/P	40 - 150
2352724	Dinotefuran	94.1	108	P/P	40 - 150
2352724	Diuron	85.6	80.7	P/P	40 - 150
2352724	Fenuron	97.5	97.1	P/P	40 - 150
2352724	Fluridone	105	106	P/P	40 - 150
2352724	Hydrocodone	104	113	P/P	40 - 150
2352724	Ibuprofen	67.1	81.2	P/P	40 - 150
2352724	Imazapyr	83.1	96.8	P/P	40 - 150
2352724	Imidacloprid	66.1	74.2	P/P	40 - 150
2352724	Linuron	91.8	99.3	P/P	40 - 150
2352724	Mandestrobin	98.0	93.3	P/P	40 - 150
2352724	MCPP	88.9	95.3	P/P	40 - 150
2352724	Naproxen	125	117	P/P	40 - 150
2352724	Primidone	44.9	35.3	P/F	40 - 150
2352724	Pyraclostrobin	92.5	94.9	P/P	40 - 150
2352724	Silvex	73.9	79.1	P/P	40 - 150
2352724	Thiamethoxam	82.0	89.7	P/P	40 - 150
2352724	Tolfenpyrad	57.1	61.2	P/P	30 - 150
2352724	Triclopyr	73.3	81.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P419280

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353473	Fluoride	97.8	98.5	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P419189

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353610	Organic Carbon	91.2	89.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352962	Turbidity	1.96	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352652	Ammonia-N	2.48	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419095

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353259	Kjeldahl Nitrogen	1.52	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352460	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352345	Total-P	0.116	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P418930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353005	PCB-1016	2.23	Spike	P	0 - 32
2353005	PCB-1260	6.51	Spike	P	0 - 31
2353048	Aldrin	5.14	Spike	P	0 - 41
2353048	Alpha-BHC	4.91	Spike	P	0 - 25
2353048	Alpha-Chlordane	1.89	Spike	P	0 - 33
2353048	Beta-BHC	5.25	Spike	P	0 - 36
2353048	Beta-Cyfluthrin	11.6	Spike	P	0 - 42
2353048	Bifenthrin	9.33	Spike	P	0 - 53
2353048	Chlorothalonil	3.82	Spike	P	0 - 71
2353048	Cis-Nonachlor	10.1	Spike	P	0 - 29
2353048	Cypermethrin	11.6	Spike	P	0 - 40
2353048	Dacthal	1.81	Spike	P	0 - 26
2353048	DDD-p,p'	4.25	Spike	P	0 - 39
2353048	DDE-p,p'	2.50	Spike	P	0 - 33
2353048	DDT-p,p'	2.73	Spike	P	0 - 40
2353048	Delta-BHC	0.321	Spike	P	0 - 37

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353048	Deltamethrin	32.1	Spike	P	0 - 100
2353048	Dichlobenil	4.39	Spike	P	0 - 40
2353048	Dicofol	2.67	Spike	P	0 - 31
2353048	Dieldrin	2.58	Spike	P	0 - 27
2353048	Endosulfan I	0.241	Spike	P	0 - 23
2353048	Endosulfan II	1.14	Spike	P	0 - 28
2353048	Endosulfan Sulfate	8.22	Spike	P	0 - 38
2353048	Endrin	0.170	Spike	P	0 - 63
2353048	Endrin Aldehyde	0.566	Spike	P	0 - 60
2353048	Endrin Ketone	0.954	Spike	P	0 - 37
2353048	Esfenvalerate	10.5	Spike	P	0 - 52
2353048	Ethalfuralin	3.32	Spike	P	0 - 23
2353048	Fenpropathrin	11.3	Spike	P	0 - 32
2353048	Gamma-BHC	0.0308	Spike	P	0 - 17
2353048	Gamma-Chlordane	1.18	Spike	P	0 - 40
2353048	Heptachlor	4.06	Spike	P	0 - 29
2353048	Heptachlor Epoxide	3.88	Spike	P	0 - 25
2353048	Hexachlorobenzene	2.52	Spike	P	0 - 36
2353048	Kepone	10.3	Spike	P	0 - 93
2353048	Lambda-Cyhalothrin	10.4	Spike	P	0 - 55
2353048	Methoprene	9.38	Spike	P	0 - 53
2353048	Methoxychlor	1.13	Spike	P	0 - 29
2353048	MGK-264	2.72	Spike	P	0 - 35
2353048	Mirex	3.76	Spike	P	0 - 46
2353048	Oxychlordane	1.16	Spike	P	0 - 29
2353048	Permethrin	10.3	Spike	P	0 - 44
2353048	Phenothrin	3.74	Spike	P	0 - 56
2353048	Piperonyl Butoxide	7.31	Spike	P	0 - 100
2353048	Prallethrin	2.08	Spike	P	0 - 42
2353048	Tau-Fluvalinate	9.94	Spike	P	0 - 54
2353048	Tetramethrin	11.8	Spike	P	0 - 51
2353048	Trans-Nonachlor	6.87	Spike	P	0 - 37
2353048	Triclosan Methyl	0.0541	Spike	P	0 - 31
2353048	Trifluralin	3.43	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P418930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353005	Chlordane	1.86	Spike	P	0 - 25
2353005	Toxaphene	2.78	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P418802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352891	Acesulfame K	0.674	Spike	P	0 - 30
2352891	AMPA	2.20	Spike	P	0 - 30
2352891	Endothall	3.24	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P418802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352891	Glufosinate	2.45	Spike	P	0 - 30
2352891	Glyphosate	5.37	Spike	P	0 - 30
2352891	Sucralose	0.783	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P418839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352724	2,4-D	3.61	Spike	P	0 - 30
2352724	2,4,5-T	2.26	Spike	P	0 - 30
2352724	Acetaminophen	12.1	Spike	P	0 - 30
2352724	Acetamiprid	4.64	Spike	P	0 - 30
2352724	Afidopyropen	19.4	Spike	P	0 - 30
2352724	Bentazon	1.98	Spike	P	0 - 30
2352724	Benzovindiflupyr	6.34	Spike	P	0 - 30
2352724	Carbamazepine	3.75	Spike	P	0 - 30
2352724	Clothianidin	9.25	Spike	P	0 - 30
2352724	Dinotefuran	13.7	Spike	P	0 - 30
2352724	Diuron	6.01	Spike	P	0 - 30
2352724	Fenuron	0.455	Spike	P	0 - 30
2352724	Fluridone	1.59	Spike	P	0 - 30
2352724	Hydrocodone	8.10	Spike	P	0 - 30
2352724	Ibuprofen	19.0	Spike	P	0 - 30
2352724	Imazapyr	15.2	Spike	P	0 - 30
2352724	Imidacloprid	11.5	Spike	P	0 - 30
2352724	Linuron	7.90	Spike	P	0 - 30
2352724	Mandestrobin	4.93	Spike	P	0 - 30
2352724	MCP	6.97	Spike	P	0 - 30
2352724	Naproxen	6.99	Spike	P	0 - 30
2352724	Primidone	24.0	Spike	P	0 - 30
2352724	Pyraclostrobin	2.62	Spike	P	0 - 30
2352724	Silvex	6.75	Spike	P	0 - 30
2352724	Thiamethoxam	9.02	Spike	P	0 - 30
2352724	Tolfenpyrad	6.89	Spike	P	0 - 30
2352724	Triclopyr	10.5	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P419276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352587	Total Alkalinity	0.722	Sample	P	0 - 3.8

Reference Method: SM 2540 D-2011
Batch ID: P419323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352962	TSS	10.9	Sample	F	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P419280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353473	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419189

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353610	Organic Carbon	1.65	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2352971
Field Sample ID: G2NE1194

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	102	P	29 - 130
EPA 8270E	Decachlorobiphenyl	77.7	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	63.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	54.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	84.4	P	30 - 101
EPA 8276	PCNB	98.4	P	48 - 121

Lab Sample ID: 2352972
Field Sample ID: G2NE1212

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	86.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	64.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	58.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	51.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	56.0	P	30 - 101
EPA 8276	PCNB	83.1	P	48 - 121

Lab Sample ID: 2352973
Field Sample ID: G2NE1213

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	103	P	29 - 130
EPA 8270E	Decachlorobiphenyl	97.7	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	67.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	65.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	75.9	P	30 - 101
EPA 8276	PCNB	95.6	P	48 - 121

Lab Sample ID: 2352976
Field Sample ID: G2NE1194

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	40.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.4	P	30 - 160
EPA 8321B	Diuron-d6	72.7	P	30 - 160
EPA 8321B	Endothall-d6	134	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	30 - 160
EPA 8321B	Ibuprofen-d3	106	P	30 - 160
EPA 8321B	Primidone-d5	32.0	P	30 - 160
EPA 8321B	Sucralose-d6	94.6	P	30 - 160

Lab Sample ID: 2352977
Field Sample ID: G2NE1212

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	143	P	30 - 160
EPA 8321B	Acetaminophen-d4	43.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	53.6	P	30 - 160
EPA 8321B	Diuron-d6	95.3	P	30 - 160
EPA 8321B	Endothall-d6	135	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2352977
Field Sample ID: G2NE1212

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	110	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.2	P	30 - 160
EPA 8321B	Primidone-d5	37.3	P	30 - 160
EPA 8321B	Sucralose-d6	95.5	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114434

Included Lab Sample IDs: 2352962

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114483

Included Lab Sample IDs: 2352963

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114487

Included Lab Sample IDs: 2352963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114512

Included Lab Sample IDs: 2352963

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

Reference Method: EPA 8321B

Run ID: A114551

Included Lab Sample IDs: 2352976, 2352977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	104	P/P	60 - 160
Sucralose	97.8	97.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114552

Included Lab Sample IDs: 2352976, 2352977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	103	102	P/P	60 - 160
Endothall	98.0	88.2	P/P	60 - 160
Glufosinate	102	81.0	P/P	60 - 160
Glyphosate	95.9	97.6	P/P	60 - 160

Reference Method: EPA 8270E

Run ID: A114560

Included Lab Sample IDs: 2352971, 2352972, 2352973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	96.3		P	80 - 120
Beta-Cyfluthrin	99.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A114560

Included Lab Sample IDs: 2352971, 2352972, 2352973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bifenthrin	105		P	80 - 120
Chlorothalonil	93.9		P	80 - 120
Cis-Nonachlor	99.8		P	80 - 120
Cypermethrin	99.5		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	98.3		P	80 - 120
Delta-BHC	98.3		P	80 - 120
Deltamethrin	85.5		P	80 - 120
Dichlobenil	97.6		P	80 - 120
Dicofol	97.7		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	99.5		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	60.8*		F	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	103		P	80 - 120
Gamma-BHC	97.4		P	80 - 120
Gamma-Chlordane	98.1		P	80 - 120
Heptachlor	104		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	99.0		P	80 - 120
Kepone	95.3		P	80 - 120
Lambda-Cyhalothrin	101		P	80 - 120
Methoprene	103		P	80 - 120
Methoxychlor	98.9		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	106		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	82.3		P	80 - 120
Prallethrin	100		P	80 - 120
Tau-Fluvalinate	100		P	80 - 120
Tetramethrin	109		P	80 - 120
Trans-Nonachlor	107		P	80 - 120
Triclosan Methyl	99.3		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114564

Included Lab Sample IDs: 2352971, 2352972, 2352973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A114564

Included Lab Sample IDs: 2352971, 2352972, 2352973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1260	103		P	80 - 120

Reference Method: EPA 8321B

Run ID: A114567

Included Lab Sample IDs: 2352977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	113	105	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114569

Included Lab Sample IDs: 2352963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	105	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114572

Included Lab Sample IDs: 2352963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	90.2	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A114573

Included Lab Sample IDs: 2352971, 2352972, 2352973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	80.6		P	80 - 120
Chlordane	96.4		P	80 - 120
Toxaphene	102		P	80 - 120
Toxaphene	82.5		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A114599

Included Lab Sample IDs: 2352962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	95.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114599

Included Lab Sample IDs: 2352962

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A114605

Included Lab Sample IDs: 2352976, 2352977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	105	P/P	50 - 150
2,4-D	89.8	93.3	P/P	50 - 150
2,4,5-T	106	120	P/P	50 - 150
2,4,5-T	116	129	P/P	50 - 150
Acetaminophen	63.5	102	P/P	60 - 160
Acetaminophen	92.2	95.1	P/P	60 - 160
Acetamiprid	85.7	85.3	P/P	50 - 150
Acetamiprid	89.4	96.7	P/P	50 - 150
Afidopyropen	119	127	P/P	50 - 150
Afidopyropen	95.0	92.7	P/P	50 - 150
Bentazon	86.6	109	P/P	50 - 160
Bentazon	98.6	86.6	P/P	50 - 160
Benzovindiflupyr	91.9	122	P/P	50 - 150
Benzovindiflupyr	99.0	115	P/P	50 - 150
Carbamazepine	112	127	P/P	60 - 150
Carbamazepine	117	95.6	P/P	60 - 150
Clothianidin	104	103	P/P	60 - 150
Clothianidin	93.8	113	P/P	60 - 150
Dinotefuran	115	94.9	P/P	50 - 150
Dinotefuran	74.5	105	P/P	50 - 150
Diuron	114	139	P/P	60 - 160
Diuron	91.4	101	P/P	60 - 160
Fenuron	83.1	88.1	P/P	60 - 150
Fenuron	88.7	103	P/P	60 - 150
Fluridone	101	116	P/P	60 - 160
Fluridone	109	104	P/P	60 - 160
Hydrocodone	106	77.2	P/P	60 - 150
Hydrocodone	79.8	91.5	P/P	60 - 150
Ibuprofen	142	147	P/P	50 - 160
Ibuprofen	99.9	126	P/P	50 - 160
Imazapyr	112	107	P/P	50 - 150
Imazapyr	97.6	96.1	P/P	50 - 150
Imidacloprid	103	74.4	P/P	60 - 150
Imidacloprid	84.3	107	P/P	60 - 150
Linuron	106	111	P/P	60 - 150
Linuron	110	147	P/P	60 - 150
Mandestrobin	104	113	P/P	50 - 150
Mandestrobin	97.1	112	P/P	50 - 150
MCPP	105	106	P/P	50 - 150
MCPP	94.8	102	P/P	50 - 150
Naproxen	132	127	P/P	50 - 160
Naproxen	138	111	P/P	50 - 160
Primidone	101	114	P/P	60 - 150
Primidone	111	112	P/P	60 - 150
Pyraclostrobin	101	111	P/P	60 - 150
Pyraclostrobin	104	111	P/P	60 - 150
Silvex	100	108	P/P	50 - 150
Silvex	85.6	61.7	P/P	50 - 150
Thiamethoxam	77.0	90.9	P/P	50 - 150
Thiamethoxam	96.8	111	P/P	50 - 150
Tolfenpyrad	101	108	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A114605

Included Lab Sample IDs: 2352976, 2352977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tolfenpyrad	104	125	P/P	60 - 150
Triclopyr	89.9	91.5	P/P	50 - 150
Triclopyr	95.1	86.9	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		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity	96.5				1.96	
EPA 350.1 Rev. 2.0	Ammonia-N	95.4	101	105			2.48
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	97.3	95.2			1.52
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	106	98.4	99.4			1.01
EPA 365.1 Rev. 2.0	Total-P	104	97.0	96.8			0.116
EPA 8270E	Aldrin	51.8	51.1	53.8			5.14
	Alpha-BHC	94.9	85.8	81.7			4.91
	Alpha-Chlordane	70.7	66.4	67.7			1.89
	Beta-BHC	108	57.1	54.2			5.25
	Beta-Cyfluthrin	66.8	66.4	74.6			11.6
	Bifenthrin	49.3	50.4	55.3			9.33
	Chlorothalonil	67.5	148	154			3.82
	Cis-Nonachlor	68.2	57.1	63.2			10.1
	Cypermethrin	70.1	63.7	71.6			11.6
	Dacthal	90.5	82.5	84.1			1.81
	DDD-p,p'	78.1	60.6	63.3			4.25
	DDE-p,p'	74.3	64.2	65.8			2.50
	DDT-p,p'	71.8	58.8	60.5			2.73
	Delta-BHC	113	124	125			0.321
	Deltamethrin	45.3	62.4	86.3			32.1
	Dichlobenil	89.4	63.4	60.7			4.39
	Dicofol	76.7	64.9	66.7			2.67
	Dieldrin	78.9	64.3	66.0			2.58
	Endosulfan I	76.2	73.8	74.0			0.241
	Endosulfan II	87.3	70.6	71.4			1.14
	Endosulfan Sulfate	97.6	79.2	86.0			8.22
	Endrin	82.4	71.3	71.4			0.170
	Endrin Aldehyde	68.3	72.3	71.9			0.566
	Endrin Ketone	56.9	79.6	80.3			0.954
	Esfenvalerate	63.2	72.3	80.3			10.5
	Ethalfuralin	79.4	62.8	65.0			3.32
	Fenpropathrin	72.1	54.5	61.0			11.3
	Gamma-BHC	92.0	96.4	96.5			0.0308
	Gamma-Chlordane	68.5	63.8	64.5			1.18
	Heptachlor	68.2	54.2	56.4			4.06
	Heptachlor Epoxide	79.7	66.1	68.7			3.88
	Hexachlorobenzene	74.3	62.6	61.1			2.52
	Kepone	150	174	193			10.3
	Lambda-Cyhalothrin	57.9	66.8	74.2			10.4
	Methoprene	54.1	60.1	66.0			9.38
	Methoxychlor	79.7	65.3	66.0			1.13
	MGK-264	79.4	79.8	82.0			2.72
	Mirex	57.1	53.9	56.0			3.76
	Oxychlordane	76.8	73.0	73.8			1.16
	PCB-1016	87.3	88.7	90.7			2.23
	PCB-1260	85.9	79.8	85.2			6.51
	Permethrin	67.8	61.5	68.2			10.3
	Phenothrin	46.4	69.8	72.5			3.74
	Piperonyl Butoxide	67.8	89.0	95.7			7.31
	Prallethrin	71.5	77.4	79.0			2.08
	Tau-Fluvalinate	53.8	67.6	74.7			9.94
	Tetramethrin	97.7	91.4	103			11.8
	Trans-Nonachlor	74.0	62.8	67.3			6.87
	Triclosan Methyl	78.4	69.2	69.3			0.0541

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8270E	Trifluralin	76.2	63.6	65.8		
EPA 8276	Chlordane	95.0	90.3	88.4		
	Toxaphene	99.1	113	110		
EPA 8321B	2,4-D	72.6	80.5	77.7		
	2,4,5-T	67.1	83.6	81.7		
	Acesulfame K	101	99.6	98.9		
	Acetaminophen	108	74.0	83.6		
	Acetamiprid	72.1	47.7	45.5		
	Afidopyropen	62.7	55.7	67.7		
	AMPA	104	105	108		
	Bentazon	82.1	121	124		
	Benzovindiflupyr	70.1	78.3	83.5		
	Carbamazepine	81.4	74.1	76.9		
	Clothianidin	77.8	49.8	54.6		
	Dinotefuran	73.6	94.1	108		
	Diuron	89.0	85.6	80.7		
	Endothall	97.1	92.9	96.0		
	Fenuron	99.5	97.5	97.1		
	Fluridone	84.5	105	106		
	Glufosinate	103	96.5	94.1		
	Glyphosate	99.6	87.9	83.3		
	Hydrocodone	112	104	113		
	Ibuprofen	59.2	81.2	67.1		
	Imazapyr	73.8	96.8	83.1		
	Imidacloprid	93.3	66.1	74.2		
	Linuron	90.9	91.8	99.3		
	Mandestrobin	86.3	98.0	93.3		
	MCPP	75.2	95.3	88.9		
	Naproxen	84.3	117	125		
	Primidone	70.9	44.9	35.3		
	Pyraclostrobin	83.0	92.5	94.9		
	Silvex	59.1	79.1	73.9		
	Sucralose	97.7	95.8	95.0		
	Thiamethoxam	97.2	82.0	89.7		
	Tolfenpyrad	44.1	57.1	61.2		
	Triclopyr	54.9	81.5	73.3		
SM 2320 B-2011	Total Alkalinity	100				0.722
SM 2540 D-2011	TSS					10.9
SM 4500-F- C-2011	Fluoride	102	97.8	98.5		0.470
SM 5310 B-2011	Organic Carbon	96.6	91.2	89.3		1.65

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2352962
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2352963
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2352963
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2352963
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2352963
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2352971, 2352972, 2352973
EPA 8270E	PCBs in water matrices by GC/MS/MS	2352971, 2352972, 2352973
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2352971, 2352972, 2352973

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2352976, 2352977
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2352962
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2352962
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2352962
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2352963

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	08/30/2022			08/30/2022 14:31	Chandler E Cox	2352962
EPA 350.1 Rev. 2.0	08/30/2022			09/01/2022 13:34	Ping Hua	2352963
EPA 351.2 Rev. 2.0	08/30/2022	09/06/2022 14:30	Alexandra J Mattheus	09/07/2022 10:11	Alexandra J Mattheus	2352963
EPA 353.2 Rev. 2.0	08/30/2022			09/01/2022 12:28	Judith K. Clark	2352963
EPA 365.1 Rev. 2.0	08/30/2022	09/01/2022 15:55	Simonne.V. Calhoun	09/02/2022 10:46	Simonne.V. Calhoun	2352963
EPA 8270E	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 17:25	Vandana T. Nagar	2352971
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 17:55	Vandana T. Nagar	2352972
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 18:24	Vandana T. Nagar	2352973
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 22:14	Julie Wi	2352971
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 22:44	Julie Wi	2352972
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 23:14	Julie Wi	2352973
EPA 8276	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 06:24	Arthur Maknenko	2352971
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 08:18	Arthur Maknenko	2352972
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 09:16	Arthur Maknenko	2352973
EPA 8321B	08/30/2022	09/01/2022 09:00	June Rhew	09/08/2022 04:33	Juyoung Kim	2352976
	08/30/2022	09/01/2022 09:00	June Rhew	09/08/2022 18:25	Juyoung Kim	2352977
	08/30/2022	09/01/2022 09:00	June Rhew	09/08/2022 21:53	Juyoung Kim	2352977
	08/30/2022	09/01/2022 09:00	June Rhew	09/09/2022 01:21	Juyoung Kim	2352976
	08/30/2022	09/01/2022 14:00	Umesh Chiluwal	09/01/2022 22:37	Umesh Chiluwal	2352976
	08/30/2022	09/01/2022 14:00	Umesh Chiluwal	09/01/2022 22:52	Umesh Chiluwal	2352977
	08/30/2022	09/01/2022 14:00	Umesh Chiluwal	09/03/2022 00:03	Umesh Chiluwal	2352976
	08/30/2022	09/01/2022 14:00	Umesh Chiluwal	09/03/2022 00:16	Umesh Chiluwal	2352977
	08/30/2022	09/01/2022 14:00	Umesh Chiluwal	09/06/2022 20:18	Umesh Chiluwal	2352977
SM 2320 B-2011	08/30/2022			09/08/2022 02:23	Adam P Silver	2352962
SM 2540 D-2011	08/30/2022			09/02/2022 16:08	Yijie Li	2352962
SM 4500-F- C-2011	08/30/2022			09/08/2022 01:29	Adam P Silver	2352962
SM 5310 B-2011	08/30/2022			09/07/2022 02:24	Khloe J Berg	2352963