

Chemical Analysis Report

SW-DIST-2022-06-07-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **SMP Run 20**
Request ID: **RQ-2022-06-06-14**
Customer: **SW-DIST**
Project ID: **SMP**

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Date Certified: 29-JUN-2022 11:13



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: Bellows Outlet

Collection Date/Time: 06/06/2022 09:35

Field ID: G1SW0060

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332717	EPA 8270E	Aldrin	0.68	U	ng/L	P414979	
		Alpha-BHC	0.10	U	ng/L	P414979	
		Alpha-Chlordane	0.28	I	ng/L	P414979	
		Beta-BHC	0.10	U	ng/L	P414979	
		Beta-Cyfluthrin**	1.3	U	ng/L	P414979	
		Bifenthrin**	0.52	U	ng/L	P414979	
		Carbophenothion	0.94	U	ng/L	P414979	
		Chlorothalonil	1.3	U	ng/L	P414979	
		Cis-Nonachlor**	0.21	U	ng/L	P414979	
		Cypermethrin	1.6	U	ng/L	P414979	
		Dacthal**	0.16	U	ng/L	P414979	
		DDD-p,p'	0.41	I	ng/L	P414979	
		DDE-p,p'	0.21	U	ng/L	P414979	
		DDT-p,p'	0.26	U	ng/L	P414979	
		Delta-BHC	0.42	UJ	ng/L	P414979	LCS
		Deltamethrin**	1.3	U	ng/L	P414979	
		Dichlobenil**	0.26	U	ng/L	P414979	
		Dicofol	1.3	U	ng/L	P414979	
		Dieldrin	0.49	I	ng/L	P414979	
		Endosulfan I	0.42	U	ng/L	P414979	
		Endosulfan II	0.42	U	ng/L	P414979	
		Endosulfan Sulfate	0.31	U	ng/L	P414979	
		Endrin	0.42	U	ng/L	P414979	
		Endrin Aldehyde	0.78	U	ng/L	P414979	
		Endrin Ketone	0.42	U	ng/L	P414979	
		Esfenvalerate**	0.78	U	ng/L	P414979	
		Ethalfuralin**	0.16	U	ng/L	P414979	
		Fenpropathrin**	0.26	U	ng/L	P414979	
		Gamma-BHC	0.13	U	ng/L	P414979	
		Gamma-Chlordane	0.31	I	ng/L	P414979	
		Heptachlor	0.21	U	ng/L	P414979	
		Heptachlor Epoxide	0.26	U	ng/L	P414979	
		Hexachlorobenzene**	1.0	U	ng/L	P414979	
		Kepone**	5.2	UJ	ng/L	P414979	LCS, MS
		Lambda-Cyhalothrin**	0.78	U	ng/L	P414979	
		Methoprene**	0.78	U	ng/L	P414979	
		Methoxychlor	0.31	U	ng/L	P414979	
		MGK-264**	0.21	U	ng/L	P414979	
		Mirex	0.73	U	ng/L	P414979	
		Oxychlordane**	0.31	U	ng/L	P414979	
		Permethrin	1.7	U	ng/L	P414979	
		Phenothrin**	0.94	U	ng/L	P414979	
		Piperonyl Butoxide**	0.89		ng/L	P414979	
		Prallethrin**	2.1	U	ng/L	P414979	

Field ID: G1SW0060

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332717	EPA 8270E	Tau-Fluvalinate**	0.26	U	ng/L	P414979	
		Tetramethrin**	0.78	U	ng/L	P414979	
		Trans-Nonachlor**	0.21	U	ng/L	P414979	
		Triclosan Methyl**	0.16	U	ng/L	P414979	
		Trifluralin	0.21	U	ng/L	P414979	
	EPA 8276	Chlordane	2.9	I	ng/L	P414979	
		Toxaphene	16	U	ng/L	P414979	
2332719	EPA 8321B	2,4-D	0.019		ug/L	P414890	
		Acesulfame K	0.26	I	ug/L	P414771	
		2,4,5-T	0.0040	U	ug/L	P414890	
		AMPA	0.10	U	ug/L	P414771	
		Acetaminophen	0.0080	U	ug/L	P414890	
		Acetamiprid	0.0020	U	ug/L	P414890	
		Endothall	0.25	U	ug/L	P414771	
		Glufosinate	0.10	U	ug/L	P414771	
		Glyphosate	0.13	I	ug/L	P414771	
		Afidopyropen	0.0020	U	ug/L	P414890	
		Bentazon	0.0018	I	ug/L	P414890	
		Sucralose	0.64		ug/L	P414771	
		Benzovindiflupyr	0.0020	U	ug/L	P414890	
		Carbamazepine	8.0E-04	U	ug/L	P414890	
		Clothianidin	0.0020	U	ug/L	P414890	
		Dinotefuran	0.0072	I	ug/L	P414890	
		Diuron	0.0057	I	ug/L	P414890	
		Fenuron	0.032	U	ug/L	P414890	
		Fluridone	0.041		ug/L	P414890	
		Imazapyr	0.18		ug/L	P414890	
		Hydrocodone	0.0020	U	ug/L	P414890	
		Ibuprofen	0.080	U	ug/L	P414890	
		Imidacloprid	0.0033	I	ug/L	P414890	
		Linuron	0.0040	U	ug/L	P414890	
		Mandestrobin	0.0020	U	ug/L	P414890	
		MCPP	0.011	I	ug/L	P414890	
		Naproxen	0.0080	U	ug/L	P414890	
		Primidone	0.0040	U	ug/L	P414890	
		Pyraclostrobin	0.0020	U	ug/L	P414890	
		Silvex	0.0040	U	ug/L	P414890	
		Thiamethoxam	0.0020	U	ug/L	P414890	
		Tolfenpyrad	0.0020	U	ug/L	P414890	
		Triclopyr	0.0040	U	ug/L	P414890	

Ref. Method and Comment:

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

Sample Location: Bellows Lake Outlet @ Danny Bryan Rd

Collection Date/Time: 06/06/2022 10:00

Field ID: G1SW0111

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332718	EPA 8270E	Aldrin	0.71	U	ng/L	P414979	
		Alpha-BHC	0.11	U	ng/L	P414979	
		Alpha-Chlordane	0.22	U	ng/L	P414979	
		Beta-BHC	0.11	U	ng/L	P414979	
		Beta-Cyfluthrin**	1.4	U	ng/L	P414979	
		Bifenthrin**	0.54	U	ng/L	P414979	
		Carbophenothion	0.98	U	ng/L	P414979	
		Chlorothalonil	1.4	U	ng/L	P414979	
		Cis-Nonachlor**	0.22	U	ng/L	P414979	
		Cypermethrin	1.6	U	ng/L	P414979	
		Dacthal**	0.16	U	ng/L	P414979	
		DDD-p,p'	0.27	U	ng/L	P414979	
		DDE-p,p'	0.22	U	ng/L	P414979	
		DDT-p,p'	0.27	U	ng/L	P414979	
		Delta-BHC	0.44	UJ	ng/L	P414979	LCS
		Deltamethrin**	1.4	U	ng/L	P414979	
		Dichlobenil**	0.27	U	ng/L	P414979	
		Dicofol	1.4	U	ng/L	P414979	
		Dieldrin	0.44	U	ng/L	P414979	
		Endosulfan I	0.44	U	ng/L	P414979	
		Endosulfan II	0.44	U	ng/L	P414979	
		Endosulfan Sulfate	0.33	U	ng/L	P414979	
		Endrin	0.44	U	ng/L	P414979	
		Endrin Aldehyde	0.82	U	ng/L	P414979	
		Endrin Ketone	0.44	U	ng/L	P414979	
		Esfenvalerate**	0.82	U	ng/L	P414979	
		Ethalfuralin**	0.16	U	ng/L	P414979	
		Fenpropathrin**	0.27	U	ng/L	P414979	
		Gamma-BHC	0.14	U	ng/L	P414979	
		Gamma-Chlordane	0.22	U	ng/L	P414979	
		Heptachlor	0.22	U	ng/L	P414979	
		Heptachlor Epoxide	0.27	U	ng/L	P414979	
		Hexachlorobenzene**	1.1	U	ng/L	P414979	
		Kepone**	5.4	UJ	ng/L	P414979	LCS, MS
		Lambda-Cyhalothrin**	0.82	U	ng/L	P414979	
		Methoprene**	0.82	U	ng/L	P414979	
		Methoxychlor	0.33	U	ng/L	P414979	
		MGK-264**	0.22	U	ng/L	P414979	
		Mirex	0.76	U	ng/L	P414979	
		Oxychlordane**	0.33	U	ng/L	P414979	
		Permethrin	1.7	U	ng/L	P414979	
		Phenothrin**	0.98	U	ng/L	P414979	
		Piperonyl Butoxide**	0.77	I	ng/L	P414979	
		Prallethrin**	2.2	U	ng/L	P414979	

Field ID: G1SW0111

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332718	EPA 8270E	Tau-Fluvalinate**	0.27	U	ng/L	P414979	
		Tetramethrin**	0.82	U	ng/L	P414979	
		Trans-Nonachlor**	0.22	U	ng/L	P414979	
		Triclosan Methyl**	0.16	U	ng/L	P414979	
		Trifluralin	0.22	U	ng/L	P414979	
	EPA 8276	Chlordane	2.7	U	ng/L	P414979	
		Toxaphene	16	U	ng/L	P414979	
2332720	EPA 8321B	2,4-D	0.010		ug/L	P414890	
		Acesulfame K	0.14	I	ug/L	P414771	
		2,4,5-T	0.0040	U	ug/L	P414890	
		AMPA	0.48		ug/L	P414771	
		Acetaminophen	0.0080	U	ug/L	P414890	
		Acetamiprid	0.0020	U	ug/L	P414890	
		Endothall	0.25	U	ug/L	P414771	
		Glufosinate	0.10	U	ug/L	P414771	
		Glyphosate	1.5		ug/L	P414771	
		Afidopyropen	0.0020	U	ug/L	P414890	
		Bentazon	0.0033		ug/L	P414890	
		Sucralose	0.26		ug/L	P414771	
		Benzovindiflupyr	0.0020	U	ug/L	P414890	
		Carbamazepine	8.0E-04	U	ug/L	P414890	
		Clothianidin	0.0020	U	ug/L	P414890	
		Dinotefuran	0.0044	I	ug/L	P414890	
		Diuron	0.22		ug/L	P414890	
		Fenuron	0.032	U	ug/L	P414890	
		Fluridone	0.0073		ug/L	P414890	
		Imazapyr	0.36		ug/L	P414890	
		Hydrocodone	0.0020	U	ug/L	P414890	
		Ibuprofen	0.080	U	ug/L	P414890	
		Imidacloprid	0.0055	I	ug/L	P414890	
		Linuron	0.0040	U	ug/L	P414890	
		Mandestrobin	0.0020	U	ug/L	P414890	
		MCPP	0.0040	U	ug/L	P414890	
		Naproxen	0.0080	U	ug/L	P414890	
		Primidone	0.0069	I	ug/L	P414890	
		Pyraclostrobin	0.0020	U	ug/L	P414890	
		Silvex	0.0040	U	ug/L	P414890	
		Thiamethoxam	0.0020	U	ug/L	P414890	
		Tolfenpyrad	0.0020	U	ug/L	P414890	
		Triclopyr	0.0040	U	ug/L	P414890	

Ref. Method and Comment:

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

Sample Location: Sandbag Ditch @ 45th

Collection Date/Time: 06/06/2022 11:45

Field ID: G1SW0094

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332709	EPA 180.1 Rev. 2.0	Turbidity	9.4		NTU	P414849	
	SM 2320 B-2011	Total Alkalinity	163		mg CaCO3/L	P415497	
	SM 2540 D-2011	TSS	8	I	mg/L	P415248	
	SM 4500-F- C-2011	Fluoride	0.49		mg F/L	P415762	
2332710	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P415379	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.7		mg N/L	P414826	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P415636	
	EPA 365.1 Rev. 2.0	Total-P	0.46		mg P/L	P415015	
	SM 5310 B-2011	Organic Carbon	24		mg C/L	P414935	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Tadpole Creek @ Caraway Spice Ave

Collection Date/Time: 06/06/2022 13:10

Field ID: G1SW0112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332725	DEP SOP: NU-094-1	Color (true)**	91	A	PCU	P414839	
	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P414849	
	EPA 300.0 Rev. 2.1	Chloride	36		mg Cl/L	P415410	
		Sulfate	34		mg SO4/L	P415415	
	SM 2320 B-2011	Total Alkalinity	59		mg CaCO3/L	P415388	
	SM 2540 C-2011	TDS	215		mg/L	P415243	
	SM 2540 D-2011	TSS	6	I	mg/L	P415246	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P415393	
2332726	EPA 350.1 Rev. 2.0	Ammonia-N	0.27		mg N/L	P415487	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P415359	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.55		mg N/L	P415492	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P415014	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P414935	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P414839

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414849

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415410

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415415

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415379

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415487

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414826

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415359

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415492

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: P415636

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415014

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415015

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

Reference Method: EPA 8270E
Batch ID: P414979

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	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
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: P414979

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	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414979

Component	Result	Code	Units
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: P414979

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: P414771

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P414890

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P414890

Component	Result	Code	Units
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: P415388

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO3/L

Reference Method: SM 2320 B-2011
Batch ID: P415497

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P415243

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P415246

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P415248

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415393

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P415762

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P414935

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: P414839

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414849

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415410

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415415

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415379

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415487

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414826

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415359

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415492

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P415636

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415014

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415015

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

Reference Method: EPA 8270E

Batch ID: P414979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	74.6		P	10 - 93.0
Alpha-BHC	97.9		P	75 - 106
Alpha-Chlordane	99.3		P	50 - 109
Beta-BHC	81.4		P	36 - 138
Beta-Cyfluthrin	111		P	23 - 167
Bifenthrin	72.8		P	11 - 123
Carbophenothion	84.0		P	18 - 96.0
Chlorothalonil	124		P	27 - 190
Cis-Nonachlor	84.5		P	40 - 111
Cypermethrin	97.3		P	25 - 155
Dacthal	105		P	72 - 119
DDD-p,p'	85.6		P	47 - 108
DDE-p,p'	89.1		P	48 - 107
DDT-p,p'	93.6		P	49 - 111
Delta-BHC	140		F	54 - 138
Deltamethrin	135		P	22 - 189
Dichlobenil	89.3		P	32 - 113
Dicofol	88.1		P	50 - 108
Dieldrin	87.1		P	56 - 110
Endosulfan I	94.3		P	60 - 105
Endosulfan II	104		P	50 - 120
Endosulfan Sulfate	108		P	55 - 121
Endrin	98.1		P	31 - 119
Endrin Aldehyde	90.6		P	36 - 116
Endrin Ketone	99.3		P	69 - 177
Esfenvalerate	111		P	10 - 179
Ethalfuralin	92.5		P	49 - 99.0
Fenpropathrin	89.7		P	35 - 119
Gamma-BHC	118		P	69 - 120
Gamma-Chlordane	92.5		P	45 - 107
Heptachlor	71.3		P	41 - 100
Heptachlor Epoxide	89.2		P	58 - 106
Hexachlorobenzene	87.6		P	39 - 100
Kepone	245		F	10 - 191

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lambda-Cyhalothrin	80.4		P	21 - 206
Methoprene	83.1		P	10 - 129
Methoxychlor	96.3		P	61 - 111
MGK-264	101		P	20 - 123
Mirex	73.1		P	10 - 182
Oxychlordane	95.6		P	39 - 110
Permethrin	95.4		P	26 - 152
Phenothrin	65.8		P	10 - 109
Piperonyl Butoxide	136		P	19 - 147
Prallethrin	103		P	14 - 109
Tau-Fluvalinate	99.9		P	16 - 134
Tetramethrin	117		P	10 - 125
Trans-Nonachlor	86.3		P	45 - 107
Triclosan Methyl	93.7		P	60 - 110
Trifluralin	90.5		P	44 - 101

Reference Method: EPA 8276

Batch ID: P414979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	105		P	61 - 118
Toxaphene	106		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P414771

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	140		P	40 - 150
AMPA	88.9		P	40 - 150
Endothall	75.1		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	90.7		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.2		P	40 - 150
2,4,5-T	79.4		P	40 - 150
Acetaminophen	92.8		P	30 - 150
Acetamiprid	74.0		P	40 - 150
Afidopyropen	66.4		P	30 - 150
Bentazon	114		P	30 - 150
Benzovindiflupyr	59.5		P	40 - 150
Carbamazepine	79.6		P	40 - 150
Clothianidin	93.6		P	40 - 150
Dinotefuran	91.0		P	40 - 150
Diuron	79.5		P	40 - 150
Fenuron	88.9		P	40 - 150
Fluridone	88.0		P	40 - 150
Hydrocodone	86.9		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P414890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ibuprofen	97.7		P	40 - 150
Imazapyr	108		P	40 - 150
Imidacloprid	85.0		P	40 - 150
Linuron	67.0		P	40 - 150
Mandestrobin	63.8		P	40 - 150
MCPP	107		P	40 - 150
Naproxen	98.2		P	40 - 150
Primidone	91.4		P	40 - 150
Pyraclostrobin	52.0		P	40 - 150
Silvex	67.5		P	40 - 150
Thiamethoxam	88.7		P	40 - 150
Tolfenpyrad	37.1		P	30 - 150
Triclopyr	76.8		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P415388

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

Reference Method: SM 2320 B-2011
Batch ID: P415497

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P415393

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

Reference Method: SM 4500-F- C-2011
Batch ID: P415762

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414935

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415410

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332669	Chloride	100		P	90 - 110
2332812	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415415

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332669	Sulfate	99.2		P	90 - 110
2332812	Sulfate	99.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332735	Ammonia-N	108	107	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415487

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332814	Ammonia-N	109	109	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414826

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332483	Kjeldahl Nitrogen	103	109	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332280	Kjeldahl Nitrogen	109	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415492

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332654	NO2NO3-N	96.5	96.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415636

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332907	NO2NO3-N	98.3	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332730	Total-P	109	108	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415015

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332905	Total-P	101	102	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P414979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332611	Aldrin	73.2	70.7	P/P	10 - 89.0
2332611	Alpha-BHC	97.9	99.4	P/P	71 - 105
2332611	Alpha-Chlordane	95.3	99.1	P/P	43 - 107
2332611	Beta-BHC	76.5	82.4	P/P	57 - 152
2332611	Beta-Cyfluthrin	103	98.1	P/P	29 - 186
2332611	Bifenthrin	75.0	80.3	P/P	19 - 119
2332611	Carbophenothion	81.2	83.3	P/P	19 - 107
2332611	Chlorothalonil	122	115	P/P	10 - 245
2332611	Cis-Nonachlor	90.5	96.4	P/P	36 - 110
2332611	Cypermethrin	95.6	102	P/P	24 - 169
2332611	Dacthal	107	102	P/P	62 - 115
2332611	DDD-p,p'	92.5	97.2	P/P	36 - 109
2332611	DDE-p,p'	92.0	91.2	P/P	30 - 114
2332611	DDT-p,p'	92.6	88.9	P/P	42 - 108
2332611	Delta-BHC	143	137	P/P	60 - 164
2332611	Deltamethrin	122	109	P/P	10 - 210
2332611	Dichlobenil	82.8	97.0	P/P	23 - 108
2332611	Dicofol	88.5	85.2	P/P	44 - 109
2332611	Dieldrin	92.4	100	P/P	37 - 119
2332611	Endosulfan I	93.2	99.4	P/P	52 - 105
2332611	Endosulfan II	96.4	92.8	P/P	35 - 127
2332611	Endosulfan Sulfate	96.4	89.2	P/P	39 - 130
2332611	Endrin	91.8	90.8	P/P	30 - 116
2332611	Endrin Aldehyde	88.9	81.2	P/P	20 - 110
2332611	Endrin Ketone	95.1	98.2	P/P	48 - 134
2332611	Esfenvalerate	104	96.4	P/P	10 - 199
2332611	Ethalfuralin	89.1	93.4	P/P	48 - 95.0
2332611	Fenpropathrin	81.8	85.6	P/P	37 - 121
2332611	Gamma-BHC	120	118	P/P	61 - 126
2332611	Gamma-Chlordane	91.2	95.4	P/P	39 - 105
2332611	Heptachlor	75.6	83.6	P/P	38 - 96.0
2332611	Heptachlor Epoxide	89.6	99.7	P/P	42 - 114
2332611	Hexachlorobenzene	85.9	90.4	P/P	39 - 93.0
2332611	Kepone	227	201	F/P	10 - 215
2332611	Lambda-Cyhalothrin	81.5	82.3	P/P	10 - 204
2332611	Methoprene	80.8	82.6	P/P	17 - 108
2332611	Methoxychlor	90.4	86.2	P/P	56 - 115
2332611	MGK-264	98.0	99.9	P/P	35 - 120
2332611	Mirex	76.5	78.3	P/P	10 - 178
2332611	Oxychlordane	90.2	87.2	P/P	47 - 91.0
2332611	Permethrin	99.3	95.6	P/P	27 - 170
2332611	Phenothrin	68.1	78.2	P/P	10 - 133
2332611	Piperonyl Butoxide	128	145	P/P	23 - 150
2332611	Prallethrin	94.7	89.9	P/P	21 - 113
2332611	Tau-Fluvalinate	91.0	86.7	P/P	16 - 158
2332611	Tetramethrin	117	113	P/P	22 - 132

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P414979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332611	Trans-Nonachlor	89.1	87.7	P/P	43 - 102
2332611	Triclosan Methyl	94.8	100	P/P	49 - 109
2332611	Trifluralin	88.7	88.6	P/P	48 - 93.0

Reference Method: EPA 8276
Batch ID: P414979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333132	Chlordane	105	105	P/P	55 - 128
2333132	Toxaphene	127	126	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P414771

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331315	Acesulfame K	125	127	P/P	40 - 150
2331315	AMPA	67.0	61.8	P/P	40 - 150
2331315	Endothall	72.4	72.9	P/P	40 - 150
2331315	Glufosinate	92.8	82.8	P/P	40 - 150
2331315	Glyphosate	79.9	97.2	P/P	40 - 150
2331315	Sucralose	108	112	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333031	2,4-D	113	101	P/P	40 - 150
2333031	2,4,5-T	103	84.0	P/P	40 - 150
2333031	Acetaminophen	125	105	P/P	30 - 150
2333031	Acetamiprid	98.4	84.8	P/P	40 - 150
2333031	Afidopyropen	89.5	78.1	P/P	30 - 150
2333031	Bentazon	123	102	P/P	30 - 150
2333031	Benzovindiflupyr	66.6	59.0	P/P	40 - 150
2333031	Carbamazepine	95.9	82.7	P/P	40 - 150
2333031	Clothianidin	110	93.9	P/P	40 - 150
2333031	Dinotefuran	123	103	P/P	40 - 150
2333031	Diuron	93.9	79.9	P/P	40 - 150
2333031	Fenuron	97.3	83.3	P/P	40 - 150
2333031	Fluridone	102	89.1	P/P	40 - 150
2333031	Hydrocodone	108	90.7	P/P	40 - 150
2333031	Ibuprofen	92.5	95.2	P/P	40 - 150
2333031	Imazapyr	135	114	P/P	40 - 150
2333031	Imidacloprid	113	88.2	P/P	40 - 150
2333031	Linuron	77.4	70.0	P/P	40 - 150
2333031	Mandestrobin	70.0	62.8	P/P	40 - 150
2333031	MCCPP	139	116	P/P	40 - 150
2333031	Naproxen	100	75.2	P/P	40 - 150
2333031	Primidone	111	101	P/P	40 - 150
2333031	Pyraclostrobin	63.7	56.5	P/P	40 - 150
2333031	Silvex	97.3	76.0	P/P	40 - 150
2333031	Thiamethoxam	105	90.9	P/P	40 - 150
2333031	Tolfenpyrad	42.1	37.4	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P414890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333031	Triclopyr	103	78.3	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P415393

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333178	Fluoride	103	103	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P415762

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331472	Fluoride	101	100	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332514	Organic Carbon	94.2	94.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P414839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332725	Color (true)	2.60	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332683	Turbidity	6.54	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332669	Chloride	2.74	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332669	Sulfate	1.25	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332735	Ammonia-N	1.21	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332814	Ammonia-N	0.323	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414826

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332483	Kjeldahl Nitrogen	5.01	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332280	Kjeldahl Nitrogen	5.91	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P415492

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332654	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P415636

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332907	NO2NO3-N	3.83	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415014

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332730	Total-P	1.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415015

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332905	Total-P	1.45	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P414979

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332611	Aldrin	3.53	Spike	P	0 - 37
2332611	Alpha-BHC	1.54	Spike	P	0 - 16
2332611	Alpha-Chlordane	3.89	Spike	P	0 - 28
2332611	Beta-BHC	7.46	Spike	P	0 - 32
2332611	Beta-Cyfluthrin	5.09	Spike	P	0 - 41
2332611	Bifenthrin	6.87	Spike	P	0 - 36
2332611	Carbophenothion	2.52	Spike	P	0 - 30
2332611	Chlorothalonil	6.18	Spike	P	0 - 54
2332611	Cis-Nonachlor	6.37	Spike	P	0 - 33
2332611	Cypermethrin	6.56	Spike	P	0 - 38
2332611	Dacthal	5.11	Spike	P	0 - 23
2332611	DDD-p,p'	4.98	Spike	P	0 - 35
2332611	DDE-p,p'	0.880	Spike	P	0 - 27
2332611	DDT-p,p'	3.99	Spike	P	0 - 31
2332611	Delta-BHC	4.42	Spike	P	0 - 30
2332611	Deltamethrin	10.8	Spike	P	0 - 76
2332611	Dichlobenil	15.8	Spike	P	0 - 33
2332611	Dicofol	3.82	Spike	P	0 - 24
2332611	Dieldrin	8.01	Spike	P	0 - 35
2332611	Endosulfan I	6.45	Spike	P	0 - 25
2332611	Endosulfan II	3.74	Spike	P	0 - 31
2332611	Endosulfan Sulfate	7.76	Spike	P	0 - 38
2332611	Endrin	1.05	Spike	P	0 - 53

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332611	Endrin Aldehyde	9.12	Spike	P	0 - 81
2332611	Endrin Ketone	3.16	Spike	P	0 - 33
2332611	Esfenvalerate	8.06	Spike	P	0 - 46
2332611	Ethalfuralin	4.72	Spike	P	0 - 22
2332611	Fenpropathrin	4.60	Spike	P	0 - 29
2332611	Gamma-BHC	1.77	Spike	P	0 - 17
2332611	Gamma-Chlordane	4.44	Spike	P	0 - 28
2332611	Heptachlor	10.0	Spike	P	0 - 28
2332611	Heptachlor Epoxide	10.6	Spike	P	0 - 23
2332611	Hexachlorobenzene	5.18	Spike	P	0 - 22
2332611	Kepone	12.1	Spike	P	0 - 61
2332611	Lambda-Cyhalothrin	0.984	Spike	P	0 - 52
2332611	Methoprene	2.18	Spike	P	0 - 38
2332611	Methoxychlor	4.70	Spike	P	0 - 29
2332611	MGK-264	1.93	Spike	P	0 - 41
2332611	Mirex	2.35	Spike	P	0 - 39
2332611	Oxychlordane	3.41	Spike	P	0 - 33
2332611	Permethrin	3.71	Spike	P	0 - 39
2332611	Phenothrin	13.8	Spike	P	0 - 52
2332611	Piperonyl Butoxide	12.6	Spike	P	0 - 91
2332611	Prallethrin	5.28	Spike	P	0 - 34
2332611	Tau-Fluvalinate	4.82	Spike	P	0 - 41
2332611	Tetramethrin	4.13	Spike	P	0 - 43
2332611	Trans-Nonachlor	1.59	Spike	P	0 - 31
2332611	Triclosan Methyl	5.82	Spike	P	0 - 24
2332611	Trifluralin	0.102	Spike	P	0 - 23

Reference Method: EPA 8276
Batch ID: P414979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333132	Chlordane	0.573	Spike	P	0 - 25
2333132	Toxaphene	1.10	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P414771

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331315	Acesulfame K	1.58	Spike	P	0 - 30
2331315	AMPA	4.94	Spike	P	0 - 30
2331315	Endothall	0.753	Spike	P	0 - 30
2331315	Glufosinate	11.4	Spike	P	0 - 30
2331315	Glyphosate	9.62	Spike	P	0 - 30
2331315	Sucralose	3.90	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P414890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333031	2,4-D	10.6	Spike	P	0 - 30
2333031	2,4,5-T	20.0	Spike	P	0 - 30
2333031	Acetaminophen	15.6	Spike	P	0 - 30
2333031	Acetamiprid	14.9	Spike	P	0 - 30
2333031	Afidopyropen	13.7	Spike	P	0 - 30
2333031	Bentazon	15.0	Spike	P	0 - 30
2333031	Benzovindiflupyr	12.1	Spike	P	0 - 30
2333031	Carbamazepine	14.1	Spike	P	0 - 30
2333031	Clothianidin	15.7	Spike	P	0 - 30
2333031	Dinotefuran	17.9	Spike	P	0 - 30
2333031	Diuron	14.6	Spike	P	0 - 30
2333031	Fenuron	15.5	Spike	P	0 - 30
2333031	Fluridone	13.8	Spike	P	0 - 30
2333031	Hydrocodone	17.7	Spike	P	0 - 30
2333031	Ibuprofen	2.93	Spike	P	0 - 30
2333031	Imazapyr	11.8	Spike	P	0 - 30
2333031	Imidacloprid	20.3	Spike	P	0 - 30
2333031	Linuron	10.1	Spike	P	0 - 30
2333031	Mandestrobin	10.7	Spike	P	0 - 30
2333031	MCP	17.5	Spike	P	0 - 30
2333031	Naproxen	28.4	Spike	P	0 - 30
2333031	Primidone	9.94	Spike	P	0 - 30
2333031	Pyraclostrobin	12.0	Spike	P	0 - 30
2333031	Silvex	24.6	Spike	P	0 - 30
2333031	Thiamethoxam	14.9	Spike	P	0 - 30
2333031	Tolfenpyrad	11.8	Spike	P	0 - 30
2333031	Triclopyr	26.9	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P415388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333178	Total Alkalinity	0.100	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P415497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333620	Total Alkalinity	0.939	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P415243

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332513	TDS	7.00	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P415393

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333178	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P415762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331472	Fluoride	0.480	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P414935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332514	Organic Carbon	0.112	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2332717

Field Sample ID: G1SW0060

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	74.5	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	54.5	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	62.8	P	30 - 97.0
EPA 8276	PCNB	88.3	P	45 - 119

Lab Sample ID: 2332718

Field Sample ID: G1SW0111

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.3	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	55.0	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	60.5	P	30 - 97.0
EPA 8276	PCNB	88.5	P	45 - 119

Lab Sample ID: 2332719

Field Sample ID: G1SW0060

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	113	P	30 - 160
EPA 8321B	Acetaminophen-d4	106	P	30 - 160
EPA 8321B	Carbamazepine-d10	96.5	P	30 - 160
EPA 8321B	Diuron-d6	60.5	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	75.4	P	30 - 160
EPA 8321B	Primidone-d5	100	P	30 - 160
EPA 8321B	Sucralose-d6	153	P	30 - 160

Lab Sample ID: 2332720

Field Sample ID: G1SW0111

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	95.9	P	30 - 160
EPA 8321B	Diuron-d6	66.2	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	82.2	P	30 - 160
EPA 8321B	Primidone-d5	99.5	P	30 - 160
EPA 8321B	Sucralose-d6	159	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A112651

Included Lab Sample IDs: 2332725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	105	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112655

Included Lab Sample IDs: 2332709, 2332725

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

Reference Method: EPA 8321B

Run ID: A112660

Included Lab Sample IDs: 2332719, 2332720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	154	156	P/P	60 - 160
Sucralose	115	116	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A112661

Included Lab Sample IDs: 2332719, 2332720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	91.9	90.4	P/P	60 - 160
Endothall	67.5	68.8	P/P	60 - 160
Glufosinate	99.0	102	P/P	60 - 160
Glyphosate	95.0	91.5	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A112691

Included Lab Sample IDs: 2332710, 2332726

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

Reference Method: EPA 8321B

Run ID: A112791

Included Lab Sample IDs: 2332719, 2332720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	106	101	P/P	50 - 150
2,4,5-T	111	102	P/P	50 - 150
Acetaminophen	103	105	P/P	60 - 160
Acetamiprid	88.2	91.0	P/P	50 - 150
Afidopyropen	84.3	77.0	P/P	50 - 150
Bentazon	112	108	P/P	50 - 160
Benzovindiflupyr	79.9	77.2	P/P	50 - 150
Carbamazepine	85.1	83.8	P/P	60 - 150
Clothianidin	91.1	97.1	P/P	60 - 150
Dinotefuran	92.7	97.7	P/P	50 - 150
Diuron	82.8	85.5	P/P	60 - 160
Fenuron	88.3	88.0	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A112791

Included Lab Sample IDs: 2332719, 2332720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	94.1	99.7	P/P	60 - 160
Hydrocodone	97.6	94.5	P/P	60 - 150
Ibuprofen	110	119	P/P	50 - 160
Imazapyr	94.3	96.1	P/P	50 - 150
Imidacloprid	91.4	87.3	P/P	60 - 150
Linuron	77.4	73.6	P/P	60 - 150
Mandestrobin	82.5	80.3	P/P	50 - 150
MCPP	113	104	P/P	50 - 150
Naproxen	93.8	95.6	P/P	50 - 160
Primidone	93.3	97.2	P/P	60 - 150
Pyraclostrobin	77.2	77.6	P/P	60 - 150
Silvex	109	113	P/P	50 - 150
Thiamethoxam	89.5	93.3	P/P	50 - 150
Tolfenpyrad	84.9	85.9	P/P	60 - 150
Triclopyr	116	104	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112843

Included Lab Sample IDs: 2332710, 2332726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	101	P/P	90 - 110
Total-P	103	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112855

Included Lab Sample IDs: 2332710

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.7	105	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112881

Included Lab Sample IDs: 2332717, 2332718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	107		P	80 - 120
Alpha-BHC	95.8		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	97.2		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	98.8		P	80 - 120
Carbophenothion	109		P	80 - 120
Chlorothalonil	94.2		P	80 - 120
Cis-Nonachlor	95.3		P	80 - 120
Cypermethrin	99.0		P	80 - 120
Dacthal	108		P	80 - 120
DDD-p,p'	96.9		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112881

Included Lab Sample IDs: 2332717, 2332718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Deltamethrin	118		P	80 - 120
Dichlobenil	105		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	97.6		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	104		P	80 - 120
Endrin Aldehyde	93.3		P	80 - 120
Endrin Ketone	97.0		P	80 - 120
Esfenvalerate	105		P	80 - 120
Ethalfuralin	97.7		P	80 - 120
Fenpropathrin	99.7		P	80 - 120
Gamma-BHC	109		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	95.0		P	80 - 120
Heptachlor Epoxide	93.6		P	80 - 120
Hexachlorobenzene	95.0		P	80 - 120
Kepone	101		P	80 - 120
Lambda-Cyhalothrin	95.3		P	80 - 120
Methoprene	106		P	80 - 120
Methoxychlor	98.2		P	80 - 120
MGK-264	103		P	80 - 120
Mirex	95.7		P	80 - 120
Oxychlordane	99.5		P	80 - 120
Permethrin	96.0		P	80 - 120
Phenothrin	91.8		P	80 - 120
Piperonyl Butoxide	115		P	80 - 120
Prallethrin	108		P	80 - 120
Tau-Fluvalinate	107		P	80 - 120
Tetramethrin	99.5		P	80 - 120
Trans-Nonachlor	99.9		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	97.3		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112905

Included Lab Sample IDs: 2332710

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.3	98.6	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A112906

Included Lab Sample IDs: 2332725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A112906

Included Lab Sample IDs: 2332725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A112925

Included Lab Sample IDs: 2332725

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

Reference Method: SM 2320 B-2011

Run ID: A112951

Included Lab Sample IDs: 2332709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112954

Included Lab Sample IDs: 2332726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.8	96.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A112961

Included Lab Sample IDs: 2332726

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112989

Included Lab Sample IDs: 2332726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113006

Included Lab Sample IDs: 2332710

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

Reference Method: EPA 8276

Run ID: A113035

Included Lab Sample IDs: 2332717, 2332718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A113035

Included Lab Sample IDs: 2332717, 2332718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.9		P	80 - 120
Toxaphene	103		P	80 - 120
Toxaphene	91.1		P	80 - 120

Reference Method: SM 4500-F- C-2011

Run ID: A113065

Included Lab Sample IDs: 2332709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	100	P/P	90 - 110

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

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
DEP SOP: NU-094-1	Color (true)	103				2.60
EPA 180.1 Rev. 2.0	Turbidity	96.7				6.54
EPA 300.0 Rev. 2.1	Chloride	99.6	100	99.7		2.74
	Sulfate	98.9	99.2	99.2		1.25
EPA 350.1 Rev. 2.0	Ammonia-N	100	108	107		1.21
	Ammonia-N	102	109	109		0.323
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	109	103		5.01
	Kjeldahl Nitrogen	107	109	101		5.91
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	96.5	96.5		0.0
	NO2NO3-N	102	98.3	102		3.83
EPA 365.1 Rev. 2.0	Total-P	103	109	108		1.03
	Total-P	103	101	102		1.45
EPA 8270E	Aldrin	74.6	70.7	73.2		3.53
	Alpha-BHC	97.9	97.9	99.4		1.54
	Alpha-Chlordane	99.3	95.3	99.1		3.89
	Beta-BHC	81.4	76.5	82.4		7.46
	Beta-Cyfluthrin	111	103	98.1		5.09
	Bifenthrin	72.8	75.0	80.3		6.87
	Carbophenothion	84.0	81.2	83.3		2.52
	Chlorothalonil	124	122	115		6.18
	Cis-Nonachlor	84.5	90.5	96.4		6.37
	Cypermethrin	97.3	95.6	102		6.56
	Dacthal	105	107	102		5.11
	DDD-p,p'	85.6	92.5	97.2		4.98
	DDE-p,p'	89.1	92.0	91.2		0.880
	DDT-p,p'	93.6	92.6	88.9		3.99
	Delta-BHC	140	143	137		4.42
	Deltamethrin	135	122	109		10.8
	Dichlobenil	89.3	82.8	97.0		15.8
	Dicofol	88.1	88.5	85.2		3.82
	Dieldrin	87.1	92.4	100		8.01
	Endosulfan I	94.3	93.2	99.4		6.45
	Endosulfan II	104	96.4	92.8		3.74
	Endosulfan Sulfate	108	96.4	89.2		7.76
	Endrin	98.1	91.8	90.8		1.05
	Endrin Aldehyde	90.6	88.9	81.2		9.12
	Endrin Ketone	99.3	95.1	98.2		3.16
	Esfenvalerate	111	104	96.4		8.06
	Ethalfuralin	92.5	89.1	93.4		4.72
	Fenpropathrin	89.7	81.8	85.6		4.60
	Gamma-BHC	118	120	118		1.77
	Gamma-Chlordane	92.5	91.2	95.4		4.44
	Heptachlor	71.3	75.6	83.6		10.0
	Heptachlor Epoxide	89.2	89.6	99.7		10.6
	Hexachlorobenzene	87.6	85.9	90.4		5.18
	Kepone	245	227	201		12.1
	Lambda-Cyhalothrin	80.4	81.5	82.3		0.984
	Methoprene	83.1	80.8	82.6		2.18
	Methoxychlor	96.3	90.4	86.2		4.70
	MGK-264	101	98.0	99.9		1.93
	Mirex	73.1	76.5	78.3		2.35
	Oxychlordane	95.6	90.2	87.2		3.41
	Permethrin	95.4	99.3	95.6		3.71
	Phenothrin	65.8	68.1	78.2		13.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Piperonyl Butoxide	136	128	145			12.6
	Prallethrin	103	94.7	89.9			5.28
	Tau-Fluvalinate	99.9	91.0	86.7			4.82
	Tetramethrin	117	117	113			4.13
	Trans-Nonachlor	86.3	89.1	87.7			1.59
	Triclosan Methyl	93.7	94.8	100			5.82
	Trifluralin	90.5	88.7	88.6			0.102
EPA 8276	Chlordane	105	105	105			0.573
	Toxaphene	106	127	126			1.10
EPA 8321B	2,4-D	89.2	113	101			10.6
	2,4,5-T	79.4	103	84.0			20.0
	Acesulfame K	140	125	127			1.58
	Acetaminophen	92.8	125	105			15.6
	Acetamiprid	74.0	98.4	84.8			14.9
	Afidopyropen	66.4	89.5	78.1			13.7
	AMPA	88.9	67.0	61.8			4.94
	Bentazon	114	123	102			15.0
	Benzovindiflupyr	59.5	66.6	59.0			12.1
	Carbamazepine	79.6	95.9	82.7			14.1
	Clothianidin	93.6	110	93.9			15.7
	Dinotefuran	91.0	123	103			17.9
	Diuron	79.5	93.9	79.9			14.6
	Endothall	75.1	72.4	72.9			0.753
	Fenuron	88.9	97.3	83.3			15.5
	Fluridone	88.0	102	89.1			13.8
	Glufosinate	101	92.8	82.8			11.4
	Glyphosate	90.7	79.9	97.2			9.62
	Hydrocodone	86.9	108	90.7			17.7
	Ibuprofen	97.7	92.5	95.2			2.93
	Imazapyr	108	135	114			11.8
	Imidacloprid	85.0	113	88.2			20.3
	Linuron	67.0	77.4	70.0			10.1
	Mandestrobin	63.8	70.0	62.8			10.7
	MCPP	107	139	116			17.5
	Naproxen	98.2	100	75.2			28.4
	Primidone	91.4	111	101			9.94
	Pyraclostrobin	52.0	63.7	56.5			12.0
	Silvex	67.5	97.3	76.0			24.6
	Sucralose	113	108	112			3.90
	Thiamethoxam	88.7	105	90.9			14.9
	Tolfenpyrad	37.1	42.1	37.4			11.8
	Triclopyr	76.8	103	78.3			26.9
SM 2320 B-2011	Total Alkalinity	103				0.100	
	Total Alkalinity	104				0.939	
SM 2540 C-2011	TDS					7.00	
SM 4500-F- C-2011	Fluoride	102	103	103			0.0
	Fluoride	101	101	100			0.480
SM 5310 B-2011	Organic Carbon	94.1	94.2	94.4			0.112

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2332725

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2332709, 2332725
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2332725
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2332725
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2332710, 2332726
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2332710, 2332726
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2332710, 2332726
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2332710, 2332726
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2332717, 2332718
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2332717, 2332718
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2332719, 2332720
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2332709, 2332725
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2332725
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2332709, 2332725
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2332709, 2332725
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2332710, 2332726

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	06/07/2022			06/07/2022 15:16	Samantha L Bates	2332725
EPA 180.1 Rev. 2.0	06/07/2022			06/07/2022 15:46	Khloe J Berg	2332709
	06/07/2022			06/07/2022 15:49	Khloe J Berg	2332725
EPA 300.0 Rev. 2.1	06/07/2022			06/15/2022 21:25	Anna M. Plaviak	2332725
EPA 350.1 Rev. 2.0	06/07/2022			06/17/2022 15:04	Ping Hua	2332710
	06/07/2022			06/21/2022 11:22	Ping Hua	2332726
EPA 351.2 Rev. 2.0	06/07/2022	06/13/2022 14:27	Samantha L Bates	06/15/2022 15:26	Alexandra J Mattheus	2332710
	06/07/2022	06/20/2022 16:20	Samantha L Bates	06/22/2022 15:34	Alexandra J Mattheus	2332726
EPA 353.2 Rev. 2.0	06/07/2022			06/20/2022 12:32	Beverly Y. Sanders	2332726
	06/07/2022			06/21/2022 17:59	Touraj Touran	2332710
EPA 365.1 Rev. 2.0	06/07/2022	06/10/2022 14:40	Simonne.V. Calhoun	06/13/2022 12:09	James L Waggeberby	2332726
	06/07/2022	06/10/2022 14:40	Simonne.V. Calhoun	06/13/2022 12:22	James L Waggeberby	2332710
EPA 8270E	06/07/2022	06/10/2022 08:00	Rasheda Ghaffari	06/15/2022 19:00	Michael Poppell	2332717
	06/07/2022	06/10/2022 08:00	Rasheda Ghaffari	06/15/2022 19:29	Michael Poppell	2332718
EPA 8276	06/07/2022	06/10/2022 08:00	Rasheda Ghaffari	06/23/2022 23:48	Julie Wi	2332717
	06/07/2022	06/10/2022 08:00	Rasheda Ghaffari	06/24/2022 01:39	Julie Wi	2332718
EPA 8321B	06/07/2022	06/07/2022 13:30	Umesh Chiluwal	06/07/2022 17:25	Umesh Chiluwal	2332719
	06/07/2022	06/07/2022 13:30	Umesh Chiluwal	06/07/2022 17:40	Umesh Chiluwal	2332720
	06/07/2022	06/07/2022 13:30	Umesh Chiluwal	06/08/2022 01:23	Umesh Chiluwal	2332719
	06/07/2022	06/07/2022 13:30	Umesh Chiluwal	06/08/2022 01:36	Umesh Chiluwal	2332720
	06/07/2022	06/09/2022 08:30	June Rhew	06/10/2022 21:14	Juyoung Kim	2332719
	06/07/2022	06/09/2022 08:30	June Rhew	06/10/2022 21:49	Juyoung Kim	2332720
SM 2320 B-2011	06/07/2022			06/16/2022 21:34	Dale L. Simmons	2332725
	06/07/2022			06/19/2022 00:44	Dale L. Simmons	2332709
SM 2540 C-2011	06/07/2022			06/10/2022 14:26	Yijie Li	2332725
SM 2540 D-2011	06/07/2022			06/10/2022 14:26	Yijie Li	2332709, 2332725
SM 4500-F- C-2011	06/07/2022			06/16/2022 21:34	Dale L. Simmons	2332725
	06/07/2022			06/24/2022 13:27	Dale L. Simmons	2332709
SM 5310 B-2011	06/07/2022			06/09/2022 04:59	Khloe J Berg	2332710
	06/07/2022			06/09/2022 05:23	Khloe J Berg	2332726