

Chemical Analysis Report

SO-DIST-2022-09-28-01

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

Event Description: **2022 SMP : Myakka**
Request ID: **RQ-2022-09-19-58**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: William Mullen

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Certified by: Colin Wright, Program Administrator

Date Certified: 18-OCT-2022 11:19



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: SOUTH CREEK @ HONORE AVE

Collection Date/Time: 09/26/2022 09:45

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359921	EPA 8321B	2,4-D	0.10		ug/L	P420279	
		Acesulfame K	0.10	U	ug/L	P420170	
		2,4,5-T	0.0040	U	ug/L	P420279	
		AMPA	0.93		ug/L	P420170	
		Acetaminophen	0.0080	U	ug/L	P420279	
		Acetamiprid	0.0020	U	ug/L	P420279	
		Endothall	0.25	U	ug/L	P420170	MS
		Glufosinate	0.10	U	ug/L	P420170	
		Glyphosate	3.9		ug/L	P420170	
		Afidopyropen	0.0020	U	ug/L	P420279	
		Bentazon	0.028		ug/L	P420279	
		Sucralose	4.1		ug/L	P420170	
		Benzovindiflupyr	0.0020	U	ug/L	P420279	
		Carbamazepine	0.0021	I	ug/L	P420279	
		Clothianidin	0.0022	I	ug/L	P420279	
		Dinotefuran	0.0032	I	ug/L	P420279	
		Diuron	0.0020	U	ug/L	P420279	
		Fenuron	0.032	U	ug/L	P420279	
		Fluridone	0.41		ug/L	P420279	
		Imazapyr	0.49		ug/L	P420279	
		Hydrocodone	0.0020	U	ug/L	P420279	
		Ibuprofen	0.020	U	ug/L	P420279	
		Imidacloprid	0.045		ug/L	P420279	
		Linuron	0.0040	U	ug/L	P420279	
		Mandestrobin	0.0020	U	ug/L	P420279	
		MCPP	0.0020	U	ug/L	P420279	
		Naproxen	0.0080	U	ug/L	P420279	
		Primidone	0.016		ug/L	P420279	
		Pyraclostrobin	0.0020	U	ug/L	P420279	
		Silvex	0.0040	U	ug/L	P420279	
		Thiamethoxam	0.0020	U	ug/L	P420279	
		Tolfenpyrad	0.0020	U	ug/L	P420279	
		Triclopyr	0.0040	U	ug/L	P420279	
2359924	EPA 8270E	Aldrin	0.67	U	ng/L	P420265	
		Alpha-BHC	0.10	U	ng/L	P420265	
		Alpha-Chlordane	0.21	U	ng/L	P420265	
		PCB-1016	2.1	U	ng/L	P420265	
		Beta-BHC	0.10	U	ng/L	P420265	
		PCB-1221	2.1	U	ng/L	P420265	
		Beta-Cyfluthrin	1.3	U	ng/L	P420265	
		PCB-1232	2.1	U	ng/L	P420265	
		Bifenthrin	0.51	U	ng/L	P420265	
		PCB-1242	2.1	U	ng/L	P420265	
		Carbophenothion	0.92	U	ng/L	P420265	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359924	EPA 8270E	PCB-1248	2.1	U	ng/L	P420265	
		Chlorothalonil	5.4	I	ng/L	P420265	
		PCB-1254	2.1	U	ng/L	P420265	
		Cis-Nonachlor	0.21	U	ng/L	P420265	
		PCB-1260	2.1	U	ng/L	P420265	
		Cypermethrin	1.5	U	ng/L	P420265	
		Dacthal	0.15	U	ng/L	P420265	
		DDD-p,p'	0.26	U	ng/L	P420265	
		DDE-p,p'	0.21	U	ng/L	P420265	
		DDT-p,p'	0.26	U	ng/L	P420265	
		Delta-BHC	0.41	U	ng/L	P420265	
		Deltamethrin	1.3	U	ng/L	P420265	
		Dichlobenil	0.26	UJ	ng/L	P420265	MS
		Dicofol	1.3	U	ng/L	P420265	
		Dieldrin	0.41	U	ng/L	P420265	
		Endosulfan I	0.41	U	ng/L	P420265	
		Endosulfan II	0.41	U	ng/L	P420265	
		Endosulfan Sulfate	0.31	U	ng/L	P420265	
		Endrin	0.41	U	ng/L	P420265	
		Endrin Aldehyde	0.77	U	ng/L	P420265	
		Endrin Ketone	0.41	U	ng/L	P420265	
		Esfenvalerate	0.77	U	ng/L	P420265	
		Ethalfuralin	0.15	U	ng/L	P420265	
		Fenpropathrin	0.26	U	ng/L	P420265	
		Gamma-BHC	0.13	U	ng/L	P420265	
		Gamma-Chlordane	0.21	U	ng/L	P420265	
		Heptachlor	0.21	U	ng/L	P420265	
		Heptachlor Epoxide	0.26	U	ng/L	P420265	
		Hexachlorobenzene**	1.0	U	ng/L	P420265	
		Kepone	5.1	U	ng/L	P420265	
		Lambda-Cyhalothrin	0.77	U	ng/L	P420265	
		Methoprene	0.77	U	ng/L	P420265	
		Methoxychlor	0.31	UJ	ng/L	P420265	LCS
		MGK-264	0.21	U	ng/L	P420265	
		Mirex	0.36	U	ng/L	P420265	
		Oxychlordane	0.31	U	ng/L	P420265	
		Permethrin	1.6	U	ng/L	P420265	
		Phenothrin	0.92	U	ng/L	P420265	
		Piperonyl Butoxide	0.21	I	ng/L	P420265	
		Prallethrin	2.1	U	ng/L	P420265	
		Tau-Fluvalinate	0.26	U	ng/L	P420265	
		Tetramethrin	0.77	U	ng/L	P420265	
		Trans-Nonachlor	0.21	U	ng/L	P420265	
		Triclosan Methyl	0.15	U	ng/L	P420265	
		Trifluralin	0.25	I	ng/L	P420265	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359924	EPA 8276	Chlordane	2.6	U	ng/L	P420265	
		Toxaphene	15	U	ng/L	P420265	

Ref. Method and Comment:
EPA 8321B: MS accuracy for bentazon could not be assessed due to a high concentration of parameters in the spiked sample.
EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Insufficient sample available to perform duplicate matrix spikes.

Sample Location: LAKE MYAKKA (LOWER) @ MIDDLE

Collection Date/Time: 09/26/2022 11:15

Field ID: G3SD0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359913	DEP SOP: NU-094-1	Color (true)	300	Q	PCU	P420237	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P420263	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P420634	
		Sulfate	44		mg SO4/L	P420638	
	SM 2320 B-2011	Total Alkalinity	28		mg CaCO3/L	P420553	
	SM 2540 C-2011	TDS	167		mg/L	P420667	
	SM 2540 D-2011	TSS	3	I	mg/L	P420672	
	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P420557	
2359914	EPA 350.1 Rev. 2.0	Ammonia-N	0.055		mg N/L	P420729	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P420415	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P420318	MS
	EPA 365.1 Rev. 2.0	Total-P	0.64		mg P/L	P420289	
	SM 5310 B-2011	Organic Carbon	29		mg C/L	P420680	

Ref. Method and Comment:

DEP SOP: NU-094-1: The sample expired upon receipt.

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: LAKE MYAKKA (UPPER) @ MIDDLE

Collection Date/Time: 09/26/2022 12:25

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359915	DEP SOP: NU-094-1	Color (true)	300		PCU	P420237	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P420263	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P420634	
		Sulfate	46		mg SO4/L	P420638	
	SM 2320 B-2011	Total Alkalinity	27		mg CaCO3/L	P420553	
	SM 2540 C-2011	TDS	187		mg/L	P420667	
	SM 2540 D-2011	TSS	2	I	mg/L	P420672	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P420557	
2359916	EPA 350.1 Rev. 2.0	Ammonia-N	0.069		mg N/L	P420729	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P420415	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P420318	MS
	EPA 365.1 Rev. 2.0	Total-P	0.64		mg P/L	P420289	
	SM 5310 B-2011	Organic Carbon	29		mg C/L	P420680	
2359922	EPA 8321B	Aldicarb	0.020	U	ug/L	P420369	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P420369	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P420369	
		Carbaryl	0.0020	U	ug/L	P420369	
		Carbofuran	0.0020	U	ug/L	P420369	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P420369	
		Methiocarb	0.0020	U	ug/L	P420369	
		Methomyl	0.0020	U	ug/L	P420369	
		Oxamyl	0.0020	U	ug/L	P420369	
		Propoxur	0.0020	U	ug/L	P420369	
2359923		2,4-D	0.0047	I	ug/L	P420279	
		Acesulfame K	0.10	U	ug/L	P420170	
		2,4,5-T	0.0040	U	ug/L	P420279	
		AMPA	2.5		ug/L	P420170	
		Acetaminophen	0.0080	U	ug/L	P420279	
		Acetamiprid	0.0020	U	ug/L	P420279	
		Endothall	0.25	UJ	ug/L	P420170	MS
		Glufosinate	0.10	U	ug/L	P420170	
		Glyphosate	1.5		ug/L	P420170	
		Afidopyropen	0.0020	U	ug/L	P420279	
		Bentazon	0.0023	I	ug/L	P420279	
		Sucralose	0.032	I	ug/L	P420170	
		Benzovindiflupyr	0.0020	U	ug/L	P420279	
		Carbamazepine	8.0E-04	U	ug/L	P420279	
		Clothianidin	0.0025	I	ug/L	P420279	
		Dinotefuran	0.021		ug/L	P420279	
		Diuron	0.0020	U	ug/L	P420279	
		Fenuron	0.032	U	ug/L	P420279	
		Fluridone	8.0E-04	U	ug/L	P420279	
		Imazapyr	0.014	I	ug/L	P420279	
		Hydrocodone	0.0020	U	ug/L	P420279	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359923	EPA 8321B	Ibuprofen	0.020	U	ug/L	P420279	
		Imidacloprid	0.0098		ug/L	P420279	
		Linuron	0.0040	U	ug/L	P420279	
		Mandestrobin	0.0020	U	ug/L	P420279	
		MCP	0.0020	U	ug/L	P420279	
		Naproxen	0.0080	U	ug/L	P420279	
		Primidone	0.0040	U	ug/L	P420279	
		Pyraclostrobin	0.0020	U	ug/L	P420279	
		Silvex	0.0040	U	ug/L	P420279	
		Thiamethoxam	0.018		ug/L	P420279	
		Tolfenpyrad	0.0020	U	ug/L	P420279	
		Triclopyr	0.0040	U	ug/L	P420279	
2359925	EPA 8270E	Aldrin	0.67	U	ng/L	P420265	
		Alpha-BHC	0.10	U	ng/L	P420265	
		Alpha-Chlordane	0.21	U	ng/L	P420265	
		PCB-1016	2.1	U	ng/L	P420265	
		Beta-BHC	0.12	I	ng/L	P420265	
		PCB-1221	2.1	U	ng/L	P420265	
		Beta-Cyfluthrin	1.3	U	ng/L	P420265	
		PCB-1232	2.1	U	ng/L	P420265	
		Bifenthrin	1.0	I	ng/L	P420265	
		PCB-1242	2.1	U	ng/L	P420265	
		PCB-1248	2.1	U	ng/L	P420265	
		Chlorothalonil	5.1	I	ng/L	P420265	
		PCB-1254	2.1	U	ng/L	P420265	
		Cis-Nonachlor	0.21	U	ng/L	P420265	
		PCB-1260	2.1	U	ng/L	P420265	
		Cypermethrin	1.5	U	ng/L	P420265	
		Dacthal	0.15	U	ng/L	P420265	
		DDD-p,p'	0.26	U	ng/L	P420265	
		DDE-p,p'	0.21	U	ng/L	P420265	
		DDT-p,p'	0.26	U	ng/L	P420265	
		Delta-BHC	0.66	I	ng/L	P420265	
		Deltamethrin	1.3	U	ng/L	P420265	
		Dichlobenil	0.26	U	ng/L	P420265	MS
		Dicofol	1.3	U	ng/L	P420265	
		Dieldrin	0.43	I	ng/L	P420265	
		Endosulfan I	0.41	U	ng/L	P420265	
		Endosulfan II	0.41	U	ng/L	P420265	
		Endosulfan Sulfate	0.31	U	ng/L	P420265	
		Endrin	0.41	U	ng/L	P420265	
		Endrin Aldehyde	0.77	U	ng/L	P420265	
		Endrin Ketone	0.41	U	ng/L	P420265	
		Esfenvalerate	0.77	U	ng/L	P420265	
		Ethalfuralin	0.15	U	ng/L	P420265	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359925	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P420265	
		Gamma-BHC	0.13	U	ng/L	P420265	
		Gamma-Chlordane	0.30	I	ng/L	P420265	
		Heptachlor	0.21	U	ng/L	P420265	
		Heptachlor Epoxide	0.26	U	ng/L	P420265	
		Hexachlorobenzene**	1.0	U	ng/L	P420265	
		Kepone	5.1	U	ng/L	P420265	
		Lambda-Cyhalothrin	0.77	U	ng/L	P420265	
		Methoprene	0.77	U	ng/L	P420265	
		Methoxychlor	0.31	UJ	ng/L	P420265	LCS
		MGK-264	0.21	U	ng/L	P420265	
		Mirex	0.36	U	ng/L	P420265	
		Oxychlordane	0.31	U	ng/L	P420265	
		Permethrin	1.6	U	ng/L	P420265	
		Phenothrin	0.93	U	ng/L	P420265	
		Piperonyl Butoxide	0.45	I	ng/L	P420265	
		Prallethrin	2.1	U	ng/L	P420265	
		Tau-Fluvalinate	0.26	U	ng/L	P420265	
		Tetramethrin	0.77	U	ng/L	P420265	
		Trans-Nonachlor	0.21	U	ng/L	P420265	
		Triclosan Methyl	0.15	U	ng/L	P420265	
		Trifluralin	0.31	I	ng/L	P420265	
		Chlordane	2.6	U	ng/L	P420265	
		Toxaphene	15	U	ng/L	P420265	
2359926	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P420385	
		Acetochlor	0.24	U	ng/L	P420385	
		Octinoxate**	19	UQJ	ng/L	P420496	SUR
		Alachlor	0.24	U	ng/L	P420385	
		Avobenzone**	97	U	ng/L	P420385	
		Ametryn	0.58	U	ng/L	P420385	
		Atrazine	1.0		ng/L	P420385	
		PBDE-47**	3.9	U	ng/L	P420385	
		Atrazine Desethyl	1.5	U	ng/L	P420385	
		PBDE-99**	4.8	U	ng/L	P420385	
		Azinphos Methyl	1.9	U	ng/L	P420385	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P420385	
		Azoxystrobin	1.8	I	ng/L	P420385	
		Bromacil	24		ng/L	P420385	
		2-Ethylhexyl	12	U	ng/L	P420385	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	U	ng/L	P420385	
		Dechlorane Plus**	29	U	ng/L	P420385	
		Caffeine**	7.3	U	ng/L	P420385	
		Carbophenothion	0.19	U	ng/L	P420385	
		Carfentrazone Ethyl	0.097	U	ng/L	P420385	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359926	EPA 8270E	Chlorfenapyr	0.17	U	ng/L	P420385	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P420385	
		Chlorpyrifos Methyl	0.048	U	ng/L	P420385	
		Coumaphos	0.48	U	ng/L	P420385	
		Cyanazine	3.2	UJ	ng/L	P420385	LCS
		Cyprodinil	0.097	U	ng/L	P420385	
		Demeton	1.5	U	ng/L	P420385	
		Diazinon	0.12	U	ng/L	P420385	
		Difenoconazole	0.58	U	ng/L	P420385	
		Dimethenamid	0.097	U	ng/L	P420385	
		Dimethomorph	0.17	U	ng/L	P420385	
		Disulfoton	0.48	U	ng/L	P420385	
		Dithiopyr	0.61	U	ng/L	P420385	
		EPTC	1.2	U	ng/L	P420385	
		Ethion	0.15	U	ng/L	P420385	
		Ethoprop	0.097	U	ng/L	P420385	
		Etridiazole	0.15	U	ng/L	P420385	
		Fenamiphos	0.48	U	ng/L	P420385	
		Fenbuconazole	0.12	U	ng/L	P420385	
		Fipronil	0.29	I	ng/L	P420385	
		Fipronil Desulfinyl**	0.12	U	ng/L	P420385	
		Fipronil Sulfide	0.15	I	ng/L	P420385	
		Fipronil Sulfone	0.35	I	ng/L	P420385	
		Fluazifop-P-butyl	0.097	U	ng/L	P420385	
		Fludioxonil	0.32	I	ng/L	P420385	
		Flumioxazin	4.4	U	ng/L	P420385	
		Flutolanil	0.097	U	ng/L	P420385	
		Fluxapyroxad	2.3		ng/L	P420385	
		Fonofos	0.19	U	ng/L	P420385	
		Hexazinone	4.1		ng/L	P420385	
		Imazalil	0.73	U	ng/L	P420385	
		Iprodione	0.58	U	ng/L	P420385	
		Loratadine**	0.34	U	ng/L	P420385	
		Malathion	0.34	U	ng/L	P420385	
		Metalaxyl	4.3		ng/L	P420385	
		Metolachlor	8.1		ng/L	P420385	
		Metribuzin	5.3	I	ng/L	P420385	
		Mevinphos	1.0	U	ng/L	P420385	
		Molinate	0.29	U	ng/L	P420385	
		Myclobutanil	0.24	U	ng/L	P420385	
		Naled	1.5	U	ng/L	P420385	
		Napropamide	0.39	U	ng/L	P420385	
		Norflurazon	5.1		ng/L	P420385	
		Oxadiazon	0.32	I	ng/L	P420385	
		Oxyfluorfen	0.15	U	ng/L	P420385	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2359926	EPA 8270E	Parathion Ethyl	0.24	U	ng/L	P420385	
		Parathion Methyl	0.53	U	ng/L	P420385	
		Pendimethalin	0.97	U	ng/L	P420385	
		Phenytion**	3.4	UJ	ng/L	P420385	MS
		Phorate	0.51	U	ng/L	P420385	
		Prodiamine	0.17	U	ng/L	P420385	
		Prometon	0.87	UJ	ng/L	P420385	MS
		Prometryn	0.19	U	ng/L	P420385	
		Pronamide	0.15	U	ng/L	P420385	
		Propanil	0.12	U	ng/L	P420385	
		Propargite	1.5	U	ng/L	P420385	
		Propiconazole	0.48	U	ng/L	P420385	
		Pyraflufen Ethyl	0.24	U	ng/L	P420385	
		Pyridaben	0.44	U	ng/L	P420385	
		Pyriproxyfen	0.12	U	ng/L	P420385	
		Simazine	0.48	U	ng/L	P420385	
		Stirophos	0.12	U	ng/L	P420385	
		Sulfentrazone	3.2		ng/L	P420385	
		Tebuconazole	4.2		ng/L	P420385	
		Terbufos	0.097	U	ng/L	P420385	
		Terbuthylazine	0.41	U	ng/L	P420385	
		Thiobencarb	0.58	U	ng/L	P420385	
		Triadimefon	0.24	U	ng/L	P420385	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: MS accuracy for bentazon could not be assessed due to a high concentration of parameters in the spiked sample.

EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Insufficient sample available to perform duplicate matrix spikes.

EPA 8270E: Sample expired for preparation for octinoxate due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for bromacil not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P420237

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420263

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420634

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420638

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420729

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420415

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420318

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420289

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

Reference Method: EPA 8270E
Batch ID: P420265

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420265

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420265

Component	Result	Code	Units
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420265

Component	Result	Code	Units
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 8270E

Batch ID: P420385

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420385

Component	Result	Code	Units
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P420385

Component	Result	Code	Units
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420385

Component	Result	Code	Units
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P420496

Component	Result	Code	Units
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L

Reference Method: EPA 8276

Batch ID: P420265

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: P420170

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P420170

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P420279

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P420369

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P420553

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

Reference Method: SM 2540 C-2011
Batch ID: P420667

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P420672

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P420557

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P420680

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: P420237

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420263

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420634

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420638

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420729

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420415

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: P420318

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420289

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

Reference Method: EPA 8270E
Batch ID: P420265

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.7		P	10 - 92.0
Aldrin	41.8		P	20 - 82.0
Alpha-BHC	89.3		P	75 - 107
Alpha-BHC	82.3		P	71 - 109

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P420265

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	59.9		P	50 - 108
Alpha-Chlordane	63.1		P	42 - 106
Beta-BHC	120		P	36 - 138
Beta-BHC	101		P	69 - 180
Beta-Cyfluthrin	54.5		P	20 - 161
Beta-Cyfluthrin	65.2		P	18 - 175
Bifenthrin	41.8		P	10 - 119
Bifenthrin	49.5		P	21 - 128
Carbophenothion	33.7		P	19 - 94.0
Carbophenothion	43.8		P	10 - 126
Chlorothalonil	70.5		P	26 - 186
Chlorothalonil	57.2		P	10 - 300
Cis-Nonachlor	54.0		P	42 - 119
Cis-Nonachlor	61.1		P	34 - 106
Cypermethrin	53.5		P	22 - 150
Cypermethrin	63.4		P	22 - 158
Dacthal	89.2		P	72 - 119
Dacthal	82.0		P	54 - 116
DDD-p,p'	57.7		P	45 - 107
DDD-p,p'	64.1		P	34 - 107
DDE-p,p'	56.0		P	48 - 106
DDE-p,p'	60.1		P	33 - 110
DDT-p,p'	49.3		P	48 - 110
DDT-p,p'	55.7		P	50 - 122
Delta-BHC	111		P	54 - 140
Delta-BHC	101		P	77 - 193
Deltamethrin	64.4		P	22 - 189
Deltamethrin	75.7		P	10 - 195
Dichlobenil	47.0		P	36 - 117
Dichlobenil	47.3		P	25 - 113
Dicofol	50.7		P	46 - 155
Dicofol	58.5		P	38 - 247
Dieldrin	64.3		P	54 - 110
Dieldrin	66.5		P	45 - 118
Endosulfan I	66.2		P	59 - 105
Endosulfan I	68.2		P	51 - 106
Endosulfan II	72.0		P	51 - 118
Endosulfan II	78.9		P	37 - 122
Endosulfan Sulfate	83.8		P	57 - 121
Endosulfan Sulfate	81.4		P	43 - 132
Endrin	66.2		P	10 - 120
Endrin	68.8		P	29 - 101
Endrin Aldehyde	76.7		P	34 - 118
Endrin Aldehyde	70.0		P	19 - 110
Endrin Ketone	91.5		P	69 - 177
Endrin Ketone	84.8		P	60 - 140
Esfenvalerate	54.7		P	23 - 168
Esfenvalerate	64.2		P	26 - 199
Ethalfuralin	56.2		P	49 - 99.0
Ethalfuralin	64.1		P	45 - 99.0
Fenpropathrin	56.8		P	34 - 117
Fenpropathrin	66.6		P	35 - 120

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P420265

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-BHC	95.8		P	72 - 117
Gamma-BHC	87.9		P	63 - 128
Gamma-Chlordane	56.9		P	43 - 106
Gamma-Chlordane	59.0		P	40 - 104
Heptachlor	47.5		P	41 - 98.0
Heptachlor	51.2		P	36 - 97.0
Heptachlor Epoxide	67.3		P	57 - 106
Heptachlor Epoxide	65.8		P	49 - 184
Hexachlorobenzene	53.3		P	36 - 99.0
Hexachlorobenzene	59.1		P	39 - 96.0
Kepone	148		P	16 - 215
Kepone	158		P	10 - 217
Lambda-Cyhalothrin	54.0		P	21 - 177
Lambda-Cyhalothrin	60.8		P	21 - 193
Methoprene	48.0		P	10 - 119
Methoprene	62.0		P	20 - 106
Methoxychlor	57.6		F	60 - 112
Methoxychlor	63.3		P	53 - 118
MGK-264	81.7		P	26 - 122
MGK-264	79.1		P	40 - 118
Mirex	41.6		P	10 - 169
Mirex	49.9		P	26 - 92.0
Oxychlordane	59.2		P	43 - 105
Oxychlordane	63.5		P	44 - 99.0
PCB-1016	87.3	87.7	P/P	48 - 112
PCB-1260	85.5	89.6	P/P	44 - 118
Permethrin	60.1		P	24 - 148
Permethrin	66.4		P	33 - 182
Phenothrin	45.4		P	10 - 106
Phenothrin	50.3		P	10 - 129
Piperonyl Butoxide	83.9		P	10 - 139
Piperonyl Butoxide	83.9		P	10 - 211
Prallethrin	62.7		P	17 - 109
Prallethrin	73.8		P	24 - 113
Tau-Fluvalinate	46.2		P	13 - 131
Tau-Fluvalinate	57.8		P	14 - 149
Tetramethrin	93.6		P	10 - 132
Tetramethrin	96.4		P	17 - 151
Trans-Nonachlor	50.9		P	44 - 106
Trans-Nonachlor	60.6		P	42 - 102
Triclosan Methyl	62.2		P	59 - 109
Triclosan Methyl	66.9		P	48 - 108
Trifluralin	55.6		P	44 - 101
Trifluralin	62.7		P	47 - 96.0

Reference Method: EPA 8270E

Batch ID: P420385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.4		P	42 - 162
Acetochlor	118		P	69 - 123
Alachlor	109		P	65 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P420385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ametryn	83.2		P	58 - 141
Atrazine	116		P	73 - 118
Atrazine Desethyl	95.6		P	32 - 125
Avobenzone	96.4		P	40 - 203
Azinphos Methyl	130		P	36 - 197
Azoxystrobin	142		P	58 - 226
Bromacil	104		P	48 - 120
Butylate	58.4		P	27 - 85.0
Caffeine	71.3		P	40 - 137
Carbophenothion	122		P	54 - 132
Carfentrazone Ethyl	123		P	60 - 142
Chlorfenapyr	82.9		P	53 - 117
Chlorpyrifos Ethyl	92.2		P	59 - 116
Chlorpyrifos Methyl	94.4		P	66 - 119
Coumaphos	95.2		P	11 - 234
Cyanazine	264		F	61 - 248
Cyprodinil	104		P	50 - 147
Dechlorane Plus	123		P	47 - 182
Demeton	81.4		P	30 - 138
Diazinon	121		P	67 - 126
Difenoconazole	133		P	38 - 205
Dimethenamid	88.4		P	57 - 111
Dimethomorph	175		P	16 - 212
Disulfoton	91.6		P	46 - 126
Dithiopyr	104		P	62 - 115
EPTC	52.4		P	28 - 80.0
Ethion	68.7		P	24 - 122
Ethoprop	90.9		P	62 - 113
Etridiazole	75.8		P	28 - 92.0
Fenamiphos	90.2		P	57 - 128
Fenbuconazole	103		P	52 - 155
Fipronil	122		P	63 - 130
Fipronil Desulfinyl	111		P	61 - 130
Fipronil Sulfide	112		P	56 - 117
Fipronil Sulfone	113		P	52 - 118
Fluazifop-P-butyl	123		P	61 - 128
Fludioxonil	105		P	59 - 129
Flumioxazin	149		P	30 - 250
Flutolanil	98.2		P	53 - 127
Fluxapyroxad	96.7		P	42 - 132
Fonofos	90.9		P	61 - 110
Hexazinone	91.2		P	46 - 139
Imazalil	103		P	40 - 139
Iprodione	120		P	40 - 146
Loratadine	168		P	10 - 224
Malathion	86.4		P	61 - 135
Metalaxyl	97.7		P	58 - 121
Metolachlor	102		P	64 - 118
Metribuzin	97.2		P	45 - 245
Mevinphos	84.9		P	49 - 118
Molinate	70.5		P	42 - 92.0
Myclobutanil	107		P	55 - 127

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P420385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naled	109		P	10 - 114
Napropamide	78.8		P	39 - 121
Norflurazon	98.5		P	55 - 129
Oxadiazon	89.4		P	54 - 115
Oxybenzone	65.1		P	49 - 135
Oxyfluorfen	106		P	64 - 139
Parathion Ethyl	90.7		P	70 - 111
Parathion Methyl	104		P	76 - 136
PBDE-47	71.0		P	41 - 148
PBDE-99	85.5		P	38 - 147
Pendimethalin	76.7		P	52 - 118
Phenytoin	18.5		P	10 - 162
Phorate	83.5		P	40 - 122
Prodiamine	35.6		P	26 - 141
Prometon	58.5		P	54 - 122
Prometryn	65.0		P	61 - 128
Pronamide	111		P	72 - 121
Propanil	117		P	45 - 144
Propargite	69.8		P	10 - 199
Propiconazole	99.4		P	56 - 127
Pyraflufen Ethyl	103		P	56 - 140
Pyridaben	88.8		P	26 - 211
Pyriproxyfen	86.6		P	33 - 194
Simazine	107		P	67 - 121
Stiophos	65.4		P	20 - 142
Sulfentrazone	110		P	21 - 144
Tebuconazole	55.8		P	10 - 122
Terbufos	110		P	60 - 129
Terbutylazine	105		P	69 - 113
Thiobencarb	88.0		P	51 - 120
Tri-o-cresyl Phosphate	76.9		P	49 - 150
Triadimefon	90.5		P	56 - 114

Reference Method: EPA 8270E

Batch ID: P420496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Octinoxate	65.1		P	26 - 166

Reference Method: EPA 8276

Batch ID: P420265

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.9	74.2	P/P	61 - 116
Toxaphene	83.6	84.2	P/P	48 - 124

Reference Method: EPA 8321B

Batch ID: P420170

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	109		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P420170

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endothall	97.8		P	40 - 150
Glufosinate	91.6		P	40 - 150
Glyphosate	103		P	40 - 150
Sucralose	105		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P420279

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	95.8		P	30 - 160
2,4,5-T	89.5		P	30 - 160
Acetaminophen	98.4		P	30 - 150
Acetamiprid	78.8		P	30 - 160
Afidopyropen	65.3		P	30 - 160
Bentazon	33.3		P	30 - 150
Benzovindiflupyr	82.6		P	30 - 160
Carbamazepine	75.3		P	30 - 160
Clothianidin	96.1		P	30 - 160
Dinotefuran	95.8		P	30 - 160
Diuron	76.3		P	30 - 160
Fenuron	103		P	30 - 160
Fluridone	97.7		P	30 - 160
Hydrocodone	93.6		P	30 - 160
Ibuprofen	79.3		P	30 - 160
Imazapyr	88.7		P	30 - 160
Imidacloprid	132		P	30 - 160
Linuron	76.2		P	30 - 160
Mandestrobin	86.9		P	30 - 160
MCPP	101		P	30 - 160
Naproxen	98.6		P	30 - 160
Primidone	90.9		P	30 - 160
Pyraclostrobin	91.1		P	30 - 160
Silvex	79.9		P	30 - 160
Thiamethoxam	91.8		P	30 - 160
Tolfenpyrad	44.2		P	30 - 160
Triclopyr	83.3		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P420369

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	81.7		P	30 - 160
Aldicarb	52.1		P	30 - 150
Aldicarb Sulfone	91.4		P	30 - 160
Aldicarb Sulfoxide	82.5		P	30 - 160
Carbaryl	77.9		P	30 - 160
Carbofuran	88.7		P	30 - 160
Methiocarb	73.9		P	30 - 160
Methomyl	87.4		P	30 - 160
Oxamyl	85.1		P	30 - 160
Propoxur	78.8		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P420553

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.3		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P420557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P420680

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420634

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359779	Chloride	96.0		P	90 - 110
2359913	Chloride	97.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420638

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359779	Sulfate	98.3		P	90 - 110
2359913	Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420729

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359753	Ammonia-N	103	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420318

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358045	NO2NO3-N	91.2	89.8	P/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420289

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359790	Total-P	107	107	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P420265

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359924	Aldrin	55.3		P	20 - 82.0
2359924	Alpha-BHC	80.6		P	71 - 109
2359924	Alpha-Chlordane	64.1		P	42 - 106
2359924	Beta-BHC	129		P	69 - 180
2359924	Beta-Cyfluthrin	69.6		P	18 - 175
2359924	Bifenthrin	100		P	21 - 128
2359924	Carbophenothion	40.2		P	10 - 126
2359924	Chlorothalonil	24.9		P	10 - 300
2359924	Cis-Nonachlor	55.6		P	34 - 106
2359924	Cypermethrin	68.6		P	22 - 158
2359924	Dacthal	83.0		P	54 - 116
2359924	DDD-p,p'	56.7		P	34 - 107
2359924	DDE-p,p'	59.5		P	33 - 110
2359924	DDT-p,p'	65.8		P	50 - 122
2359924	Delta-BHC	102		P	77 - 193
2359924	Deltamethrin	75.3		P	10 - 195
2359924	Dichlobenil	17.5		F	25 - 113
2359924	Dicofol	74.3		P	38 - 247
2359924	Dieldrin	66.3		P	45 - 118
2359924	Endosulfan I	69.1		P	51 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420265

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359924	Endosulfan II	64.5		P	37 - 122
2359924	Endosulfan Sulfate	62.3		P	43 - 132
2359924	Endrin	65.7		P	29 - 101
2359924	Endrin Aldehyde	40.1		P	19 - 110
2359924	Endrin Ketone	69.0		P	60 - 140
2359924	Esfenvalerate	74.0		P	26 - 199
2359924	Ethalfuralin	75.8		P	45 - 99.0
2359924	Fenpropathrin	62.8		P	35 - 120
2359924	Gamma-BHC	85.2		P	63 - 128
2359924	Gamma-Chlordane	69.9		P	40 - 104
2359924	Heptachlor	60.0		P	36 - 97.0
2359924	Heptachlor Epoxide	72.2		P	49 - 184
2359924	Hexachlorobenzene	73.2		P	39 - 96.0
2359924	Kepone	90.4		P	10 - 217
2359924	Lambda-Cyhalothrin	85.0		P	21 - 193
2359924	Methoprene	70.9		P	20 - 106
2359924	Methoxychlor	81.0		P	53 - 118
2359924	MGK-264	91.3		P	40 - 118
2359924	Mirex	50.3		P	26 - 92.0
2359924	Oxychlordane	76.3		P	44 - 99.0
2359924	PCB-1016	90.3		P	46 - 111
2359924	PCB-1260	86.0		P	45 - 114
2359924	Permethrin	76.6		P	33 - 182
2359924	Phenothrin	69.1		P	10 - 129
2359924	Piperonyl Butoxide	74.7		P	10 - 211
2359924	Prallethrin	61.6		P	24 - 113
2359924	Tau-Fluvalinate	69.2		P	14 - 149
2359924	Tetramethrin	121		P	17 - 151
2359924	Trans-Nonachlor	60.1		P	42 - 102
2359924	Triclosan Methyl	64.1		P	48 - 108
2359924	Trifluralin	68.4		P	47 - 96.0

Reference Method: EPA 8270E

Batch ID: P420385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359926	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	78.4	64.4	P/P	26 - 165
2359926	Acetochlor	85.2	83.6	P/P	67 - 124
2359926	Alachlor	79.0	79.2	P/P	60 - 120
2359926	Ametryn	65.8	74.3	P/P	54 - 216
2359926	Atrazine	94.3	98.3	P/P	66 - 128
2359926	Atrazine Desethyl	54.5	54.9	P/P	15 - 122
2359926	Avobenzene	58.3	55.8	P/P	37 - 178
2359926	Azinphos Methyl	94.6	92.9	P/P	40 - 292
2359926	Azoxystrobin	106	90.4	P/P	35 - 220
2359926	Butylate	39.2	35.9	P/P	20 - 83.0
2359926	Caffeine	74.5	74.7	P/P	10 - 194
2359926	Carbophenothion	89.0	84.9	P/P	57 - 127
2359926	Carfentrazone Ethyl	87.4	78.3	P/P	51 - 141
2359926	Chlorfenapyr	72.6	66.6	P/P	46 - 111
2359926	Chlorpyrifos Ethyl	73.7	74.2	P/P	52 - 120
2359926	Chlorpyrifos Methyl	72.7	70.1	P/P	63 - 119

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359926	Coumaphos	74.7	66.3	P/P	10 - 228
2359926	Cyanazine	127	145	P/P	59 - 241
2359926	Cyprodinil	82.6	82.4	P/P	47 - 146
2359926	Dechlorane Plus	110	86.5	P/P	50 - 150
2359926	Demeton	72.4	67.1	P/P	40 - 136
2359926	Diazinon	93.7	94.8	P/P	69 - 132
2359926	Difenoconazole	97.2	96.2	P/P	57 - 258
2359926	Dimethenamid	66.1	68.7	P/P	54 - 110
2359926	Dimethomorph	126	122	P/P	28 - 210
2359926	Disulfoton	70.6	65.1	P/P	43 - 133
2359926	Dithiopyr	83.2	87.9	P/P	39 - 116
2359926	EPTC	31.8	29.9	P/P	20 - 78.0
2359926	Ethion	35.9	34.4	P/P	17 - 119
2359926	Ethoprop	76.7	72.0	P/P	66 - 120
2359926	Etridiazole	56.6	53.9	P/P	28 - 96.0
2359926	Fenamiphos	77.0	76.5	P/P	41 - 126
2359926	Fenbuconazole	71.7	71.4	P/P	42 - 169
2359926	Fipronil	88.7	87.2	P/P	61 - 132
2359926	Fipronil Desulfinyl	77.2	83.2	P/P	56 - 132
2359926	Fipronil Sulfide	85.0	84.3	P/P	48 - 119
2359926	Fipronil Sulfone	83.1	77.5	P/P	42 - 131
2359926	Fluazifop-P-butyl	88.6	89.6	P/P	53 - 131
2359926	Fludioxonil	78.0	71.4	P/P	56 - 127
2359926	Flumioxazin	112	113	P/P	19 - 300
2359926	Flutolanil	62.9	62.2	P/P	41 - 127
2359926	Fluxapyroxad	42.8	47.4	P/P	42 - 172
2359926	Fonofos	68.7	67.8	P/P	59 - 113
2359926	Hexazinone	78.4	71.6	P/P	66 - 122
2359926	Imazalil	86.8	94.2	P/P	21 - 283
2359926	Iprodione	86.6	84.9	P/P	43 - 150
2359926	Loratadine	139	123	P/P	23 - 201
2359926	Malathion	75.2	72.5	P/P	58 - 136
2359926	Metalaxyl	74.8	74.9	P/P	55 - 120
2359926	Metolachlor	68.3	66.0	P/P	57 - 121
2359926	Metribuzin	88.8	78.3	P/P	58 - 294
2359926	Mevinphos	73.8	68.9	P/P	50 - 126
2359926	Molinate	55.0	50.9	P/P	42 - 93.0
2359926	Myclobutanil	71.4	72.1	P/P	55 - 125
2359926	Naled	76.0	83.7	P/P	18 - 200
2359926	Napropamide	54.8	56.7	P/P	39 - 110
2359926	Norflurazon	65.2	60.5	P/P	48 - 128
2359926	Oxadiazon	65.0	64.1	P/P	43 - 112
2359926	Oxybenzone	64.6	51.3	P/P	41 - 142
2359926	Oxyfluorfen	102	104	P/P	64 - 153
2359926	Parathion Ethyl	78.0	69.5	P/P	69 - 114
2359926	Parathion Methyl	94.2	80.5	P/P	79 - 139
2359926	PBDE-47	60.6	48.9	P/P	27 - 144
2359926	PBDE-99	72.5	59.3	P/P	18 - 150
2359926	Pendimethalin	75.1	65.5	P/P	50 - 139
2359926	Phenytoin	10.1	9.27	P/F	10 - 146
2359926	Phorate	65.7	62.4	P/P	54 - 161
2359926	Prodiamine	58.8	60.4	P/P	30 - 161

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359926	Prometon	36.8	31.9	F/F	45 - 134
2359926	Prometryn	52.7	49.4	P/P	45 - 137
2359926	Pronamide	74.0	71.5	P/P	65 - 133
2359926	Propanil	90.7	89.8	P/P	49 - 142
2359926	Propargite	49.6	47.1	P/P	10 - 203
2359926	Propiconazole	71.3	69.1	P/P	38 - 146
2359926	Pyraflufen Ethyl	77.0	73.8	P/P	34 - 153
2359926	Pyridaben	68.5	60.6	P/P	12 - 192
2359926	Pyriproxyfen	76.3	73.5	P/P	33 - 180
2359926	Simazine	76.4	78.5	P/P	51 - 157
2359926	Stirophos	47.6	46.7	P/P	10 - 128
2359926	Sulfentrazone	67.2	69.9	P/P	53 - 186
2359926	Tebuconazole	29.9	27.7	P/P	10 - 133
2359926	Terbufos	89.9	88.9	P/P	65 - 139
2359926	Terbutylazine	80.4	87.4	P/P	66 - 117
2359926	Thiobencarb	73.1	69.7	P/P	51 - 119
2359926	Tri-o-cresyl Phosphate	68.6	55.5	P/P	31 - 144
2359926	Triadimefon	76.1	77.1	P/P	48 - 119

Reference Method: EPA 8270E

Batch ID: P420496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2360291	Octinoxate	79.4	79.7	P/P	21 - 159

Reference Method: EPA 8276

Batch ID: P420265

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359924	Chlordane	89.9		P	53 - 126
2359924	Toxaphene	106		P	56 - 211

Reference Method: EPA 8321B

Batch ID: P420170

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359923	Acesulfame K	70.8	70.5	P/P	40 - 150
2359923	AMPA	91.7	90.6	P/P	40 - 150
2359923	Endothall	157	154	F/F	40 - 150
2359923	Glufosinate	86.0	83.4	P/P	40 - 150
2359923	Glyphosate	106	105	P/P	40 - 150
2359923	Sucralose	101	102	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P420279

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359530	2,4-D	106	108	P/P	30 - 160
2359530	2,4,5-T	98.9	97.1	P/P	30 - 160
2359530	Acetaminophen	114	118	P/P	30 - 150
2359530	Acetamiprid	71.5	71.3	P/P	30 - 160
2359530	Afidopyropen	80.4	79.9	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P420279

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359530	Benzovindiflupyr	73.6	74.9	P/P	30 - 160
2359530	Carbamazepine	68.8	68.8	P/P	30 - 160
2359530	Clothianidin	111	115	P/P	30 - 160
2359530	Dinotefuran	106	111	P/P	30 - 160
2359530	Diuron	71.9	67.1	P/P	30 - 160
2359530	Fenuron	85.9	88.1	P/P	30 - 160
2359530	Fluridone	87.6	89.3	P/P	30 - 160
2359530	Hydrocodone	93.6	94.2	P/P	30 - 160
2359530	Ibuprofen	74.2	62.6	P/P	30 - 160
2359530	Imazapyr	99.6	99.4	P/P	30 - 160
2359530	Imidacloprid	117	114	P/P	30 - 160
2359530	Linuron	72.2	69.8	P/P	30 - 160
2359530	Mandestrobin	84.7	83.3	P/P	30 - 160
2359530	MCPP	119	116	P/P	30 - 160
2359530	Naproxen	95.4	110	P/P	30 - 160
2359530	Primidone	92.2	97.1	P/P	30 - 160
2359530	Pyraclostrobin	90.8	91.8	P/P	30 - 160
2359530	Silvex	91.9	97.4	P/P	30 - 160
2359530	Thiamethoxam	122	125	P/P	30 - 160
2359530	Tolfenpyrad	47.2	49.1	P/P	30 - 160
2359530	Triclopyr	93.7	95.3	P/P	30 - 160

Reference Method: EPA 8321B

Batch ID: P420369

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359528	3-Hydroxycarbofuran	78.7	77.0	P/P	30 - 160
2359528	Aldicarb	23.4	28.2	F/F	30 - 150
2359528	Aldicarb Sulfone	93.9	97.2	P/P	30 - 160
2359528	Aldicarb Sulfoxide	48.3	49.0	P/P	30 - 160
2359528	Carbaryl	63.9	54.0	P/P	30 - 160
2359528	Carbofuran	59.2	53.4	P/P	30 - 160
2359528	Methiocarb	58.7	66.3	P/P	30 - 160
2359528	Methomyl	68.7	69.5	P/P	30 - 160
2359528	Oxamyl	70.9	74.2	P/P	30 - 160
2359528	Propoxur	51.7	46.8	P/P	30 - 160

Reference Method: SM 4500-F- C-2011

Batch ID: P420557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359568	Fluoride	100	99.5	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P420680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359770	Organic Carbon	102		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P420237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359789	Color (true)	0.395	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359809	Turbidity	4.82	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420634

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359779	Chloride	0.476	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420638

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359779	Sulfate	0.327	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359753	Ammonia-N	3.62	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359916	Kjeldahl Nitrogen	2.98	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420318

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358045	NO2NO3-N	1.49	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420289

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359790	Total-P	0.0647	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P420265

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Aldrin	7.71	LCS	P	0 - 41
LFB	Alpha-BHC	8.15	LCS	P	0 - 25
LFB	Alpha-Chlordane	5.11	LCS	P	0 - 33
LFB	Beta-BHC	17.4	LCS	P	0 - 36
LFB	Beta-Cyfluthrin	17.8	LCS	P	0 - 42
LFB	Bifenthrin	16.9	LCS	P	0 - 53
LFB	Carbophenothion	26.0	LCS	P	0 - 49
LFB	Chlorothalonil	20.8	LCS	P	0 - 71
LFB	Cis-Nonachlor	12.3	LCS	P	0 - 29
LFB	Cypermethrin	16.9	LCS	P	0 - 40
LFB	Dacthal	8.33	LCS	P	0 - 26
LFB	DDD-p,p'	10.5	LCS	P	0 - 39
LFB	DDE-p,p'	7.01	LCS	P	0 - 33
LFB	DDT-p,p'	12.2	LCS	P	0 - 40
LFB	Delta-BHC	9.00	LCS	P	0 - 37
LFB	Deltamethrin	16.1	LCS	P	0 - 100
LFB	Dichlobenil	0.593	LCS	P	0 - 40
LFB	Dicofol	14.3	LCS	P	0 - 31
LFB	Dieldrin	3.28	LCS	P	0 - 27
LFB	Endosulfan I	2.93	LCS	P	0 - 23
LFB	Endosulfan II	9.12	LCS	P	0 - 28
LFB	Endosulfan Sulfate	2.96	LCS	P	0 - 38
LFB	Endrin	3.83	LCS	P	0 - 63
LFB	Endrin Aldehyde	9.18	LCS	P	0 - 60
LFB	Endrin Ketone	7.58	LCS	P	0 - 37
LFB	Esfenvalerate	15.9	LCS	P	0 - 52
LFB	Ethalfuralin	13.2	LCS	P	0 - 23
LFB	Fenpropathrin	15.9	LCS	P	0 - 32
LFB	Gamma-BHC	8.58	LCS	P	0 - 17
LFB	Gamma-Chlordane	3.50	LCS	P	0 - 40
LFB	Heptachlor	7.48	LCS	P	0 - 29
LFB	Heptachlor Epoxide	2.23	LCS	P	0 - 25
LFB	Hexachlorobenzene	10.3	LCS	P	0 - 36
LFB	Kepone	6.91	LCS	P	0 - 93
LFB	Lambda-Cyhalothrin	11.9	LCS	P	0 - 55
LFB	Methoprene	25.6	LCS	P	0 - 53
LFB	Methoxychlor	9.30	LCS	P	0 - 29
LFB	MGK-264	3.15	LCS	P	0 - 35
LFB	Mirex	18.1	LCS	P	0 - 46
LFB	Oxychlordane	7.00	LCS	P	0 - 29
LFB	PCB-1016	0.427	LCS	P	0 - 24
LFB	PCB-1260	4.72	LCS	P	0 - 29
LFB	Permethrin	9.92	LCS	P	0 - 44
LFB	Phenothrin	10.0	LCS	P	0 - 56
LFB	Piperonyl Butoxide	0.0130	LCS	P	0 - 100
LFB	Prallethrin	16.3	LCS	P	0 - 42
LFB	Tau-Fluvalinate	22.3	LCS	P	0 - 54
LFB	Tetramethrin	2.99	LCS	P	0 - 51
LFB	Trans-Nonachlor	17.4	LCS	P	0 - 37
LFB	Triclosan Methyl	7.27	LCS	P	0 - 31
LFB	Trifluralin	11.9	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P420385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359926	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	19.6	Spike	P	0 - 37
2359926	Acetochlor	1.90	Spike	P	0 - 28
2359926	Alachlor	0.245	Spike	P	0 - 30
2359926	Ametryn	12.2	Spike	P	0 - 32
2359926	Atrazine	3.28	Spike	P	0 - 41
2359926	Atrazine Desethyl	0.693	Spike	P	0 - 36
2359926	Avobenzone	4.42	Spike	P	0 - 36
2359926	Azinphos Methyl	1.75	Spike	P	0 - 75
2359926	Azoxystrobin	11.1	Spike	P	0 - 39
2359926	Bromacil	8.35	Spike	P	0 - 33
2359926	Butylate	8.80	Spike	P	0 - 44
2359926	Caffeine	0.168	Spike	P	0 - 74
2359926	Carbophenothion	4.80	Spike	P	0 - 25
2359926	Carfentrazone Ethyl	10.9	Spike	P	0 - 27
2359926	Chlorfenapyr	8.56	Spike	P	0 - 24
2359926	Chlorpyrifos Ethyl	0.717	Spike	P	0 - 26
2359926	Chlorpyrifos Methyl	3.75	Spike	P	0 - 26
2359926	Coumaphos	11.9	Spike	P	0 - 28
2359926	Cyanazine	12.8	Spike	P	0 - 48
2359926	Cyprodinil	0.191	Spike	P	0 - 29
2359926	Dechlorane Plus	23.5	Spike	P	0 - 30
2359926	Demeton	7.52	Spike	P	0 - 33
2359926	Diazinon	1.11	Spike	P	0 - 29
2359926	Difenoconazole	1.03	Spike	P	0 - 34
2359926	Dimethenamid	3.87	Spike	P	0 - 39
2359926	Dimethomorph	3.25	Spike	P	0 - 51
2359926	Disulfoton	8.10	Spike	P	0 - 30
2359926	Dithiopyr	5.49	Spike	P	0 - 26
2359926	EPTC	6.38	Spike	P	0 - 43
2359926	Ethion	4.20	Spike	P	0 - 79
2359926	Ethoprop	6.30	Spike	P	0 - 29
2359926	Etridiazole	4.80	Spike	P	0 - 33
2359926	Fenamiphos	0.621	Spike	P	0 - 40
2359926	Fenbuconazole	0.494	Spike	P	0 - 74
2359926	Fipronil	1.57	Spike	P	0 - 29
2359926	Fipronil Desulfinyl	7.42	Spike	P	0 - 32
2359926	Fipronil Sulfide	0.868	Spike	P	0 - 30
2359926	Fipronil Sulfone	5.77	Spike	P	0 - 33
2359926	Fluazifop-P-butyl	1.16	Spike	P	0 - 38
2359926	Fludioxonil	7.99	Spike	P	0 - 29
2359926	Flumioxazin	1.05	Spike	P	0 - 51
2359926	Flutolanil	1.08	Spike	P	0 - 25
2359926	Fluxapyroxad	4.47	Spike	P	0 - 45
2359926	Fonofos	1.38	Spike	P	0 - 27
2359926	Hexazinone	6.19	Spike	P	0 - 30
2359926	Imazalil	8.13	Spike	P	0 - 100
2359926	Iprodione	1.99	Spike	P	0 - 33
2359926	Loratadine	12.1	Spike	P	0 - 56
2359926	Malathion	3.72	Spike	P	0 - 37
2359926	Metalaxyl	0.0720	Spike	P	0 - 40
2359926	Metolachlor	1.63	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P420385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359926	Metribuzin	6.95	Spike	P	0 - 45
2359926	Mevinphos	6.83	Spike	P	0 - 29
2359926	Molinate	7.73	Spike	P	0 - 33
2359926	Myclobutanil	0.888	Spike	P	0 - 26
2359926	Naled	9.68	Spike	P	0 - 37
2359926	Napropamide	3.56	Spike	P	0 - 44
2359926	Norflurazon	4.43	Spike	P	0 - 30
2359926	Oxadiazon	1.19	Spike	P	0 - 28
2359926	Oxybenzone	23.1	Spike	P	0 - 46
2359926	Oxyfluorfen	2.44	Spike	P	0 - 28
2359926	Parathion Ethyl	11.5	Spike	P	0 - 31
2359926	Parathion Methyl	15.6	Spike	P	0 - 29
2359926	PBDE-47	21.4	Spike	P	0 - 36
2359926	PBDE-99	20.0	Spike	P	0 - 40
2359926	Pendimethalin	13.8	Spike	P	0 - 33
2359926	Phenytoin	8.96	Spike	P	0 - 100
2359926	Phorate	5.25	Spike	P	0 - 36
2359926	Prodiamine	2.62	Spike	P	0 - 71
2359926	Prometon	14.2	Spike	P	0 - 36
2359926	Prometryn	6.58	Spike	P	0 - 28
2359926	Pronamide	3.44	Spike	P	0 - 24
2359926	Propanil	1.04	Spike	P	0 - 28
2359926	Propargite	5.25	Spike	P	0 - 43
2359926	Propiconazole	3.17	Spike	P	0 - 33
2359926	Pyraflufen Ethyl	4.27	Spike	P	0 - 29
2359926	Pyridaben	12.3	Spike	P	0 - 30
2359926	Pyriproxyfen	3.76	Spike	P	0 - 79
2359926	Simazine	2.83	Spike	P	0 - 29
2359926	Stirophos	1.87	Spike	P	0 - 61
2359926	Sulfentrazone	2.48	Spike	P	0 - 33
2359926	Tebuconazole	3.41	Spike	P	0 - 69
2359926	Terbufos	1.08	Spike	P	0 - 29
2359926	Terbuthylazine	8.32	Spike	P	0 - 32
2359926	Thiobencarb	4.69	Spike	P	0 - 26
2359926	Tri-o-cresyl Phosphate	21.2	Spike	P	0 - 33
2359926	Triadimefon	1.38	Spike	P	0 - 28

Reference Method: EPA 8270E
Batch ID: P420496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2360291	Octinoxate	0.384	Spike	P	0 - 45

Reference Method: EPA 8276
Batch ID: P420265

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	6.16	LCS	P	0 - 37
LFB	Toxaphene	0.780	LCS	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P420170

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359923	Acesulfame K	0.369	Spike	P	0 - 30
2359923	AMPA	0.607	Spike	P	0 - 30
2359923	Endothall	1.52	Spike	P	0 - 30
2359923	Glufosinate	3.09	Spike	P	0 - 30
2359923	Glyphosate	0.631	Spike	P	0 - 30
2359923	Sucralose	0.550	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P420279

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359530	2,4-D	1.63	Spike	P	0 - 30
2359530	2,4,5-T	1.77	Spike	P	0 - 30
2359530	Acetaminophen	3.80	Spike	P	0 - 30
2359530	Acetamiprid	0.288	Spike	P	0 - 30
2359530	Afidopyropen	0.562	Spike	P	0 - 30
2359530	Bentazon	3.73	Spike	P	0 - 30
2359530	Benzovindiflupyr	1.66	Spike	P	0 - 30
2359530	Carbamazepine	0.00701	Spike	P	0 - 30
2359530	Clothianidin	3.93	Spike	P	0 - 30
2359530	Dinotefuran	5.04	Spike	P	0 - 30
2359530	Diuron	5.39	Spike	P	0 - 30
2359530	Fenuron	2.52	Spike	P	0 - 30
2359530	Fluridone	1.39	Spike	P	0 - 30
2359530	Hydrocodone	0.654	Spike	P	0 - 30
2359530	Ibuprofen	16.9	Spike	P	0 - 30
2359530	Imazapyr	0.222	Spike	P	0 - 30
2359530	Imidacloprid	1.73	Spike	P	0 - 30
2359530	Linuron	3.31	Spike	P	0 - 30
2359530	Mandestrobin	1.74	Spike	P	0 - 30
2359530	MCPP	2.75	Spike	P	0 - 30
2359530	Naproxen	14.1	Spike	P	0 - 30
2359530	Primidone	4.77	Spike	P	0 - 30
2359530	Pyraclostrobin	1.04	Spike	P	0 - 30
2359530	Silvex	5.89	Spike	P	0 - 30
2359530	Thiamethoxam	2.54	Spike	P	0 - 30
2359530	Tolfenpyrad	3.86	Spike	P	0 - 30
2359530	Triclopyr	1.68	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P420369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359528	3-Hydroxycarbofuran	2.25	Spike	P	0 - 30
2359528	Aldicarb	18.8	Spike	P	0 - 30
2359528	Aldicarb Sulfone	3.43	Spike	P	0 - 30
2359528	Aldicarb Sulfoxide	1.55	Spike	P	0 - 30
2359528	Carbaryl	16.8	Spike	P	0 - 30
2359528	Carbofuran	10.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P420369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359528	Methiocarb	12.2	Spike	P	0 - 30
2359528	Methomyl	1.06	Spike	P	0 - 30
2359528	Oxamyl	4.54	Spike	P	0 - 30
2359528	Propoxur	10.1	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P420553

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359568	Total Alkalinity	0.859	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P420667

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359743	TDS	2.96	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P420557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359568	Fluoride	0.477	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P420680

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359770	Organic Carbon	0.590	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2359921
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	132	P	30 - 160
EPA 8321B	Acetaminophen-d4	118	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.0	P	30 - 160
EPA 8321B	Diuron-d6	53.9	P	30 - 160
EPA 8321B	Endothall-d6	81.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	80.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.5	P	30 - 160
EPA 8321B	Primidone-d5	89.5	P	30 - 160
EPA 8321B	Sucralose-d6	99.8	P	30 - 160

Lab Sample ID: 2359922
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	50.0	P	30 - 160

Lab Sample ID: 2359923
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	128	P	30 - 160
EPA 8321B	Acetaminophen-d4	120	P	30 - 160
EPA 8321B	Carbamazepine-d10	61.2	P	30 - 160
EPA 8321B	Diuron-d6	49.9	P	30 - 160
EPA 8321B	Endothall-d6	147	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	110	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.2	P	30 - 160
EPA 8321B	Primidone-d5	85.3	P	30 - 160
EPA 8321B	Sucralose-d6	97.5	P	30 - 160

Lab Sample ID: 2359924
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	101	P	29 - 130
EPA 8270E	Decachlorobiphenyl	69.6	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	69.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	66.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	56.4	P	30 - 101
EPA 8276	PCNB	112	P	48 - 121

Lab Sample ID: 2359925
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	99.9	P	29 - 130
EPA 8270E	Decachlorobiphenyl	62.0	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	63.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	66.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	48.4	P	30 - 101
EPA 8276	PCNB	115	P	48 - 121

Quality Assurance Report Surrogates

Lab Sample ID: 2359926
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	70.8	P	20 - 200
EPA 8270E	Simazine-d10	126	P	62 - 142
EPA 8270E	Terbufos-d10	99.7	P	58 - 132
EPA 8270E	Terphenyl-d14	74.0	P	52 - 137
EPA 8270E	Terphenyl-d14	146	F	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A114998

Included Lab Sample IDs: 2359913, 2359915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.2	98.0	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115001

Included Lab Sample IDs: 2359913, 2359915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.0	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115032

Included Lab Sample IDs: 2359914, 2359916

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115068

Included Lab Sample IDs: 2359921, 2359923

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	109	P/P	60 - 160
AMPA	109	110	P/P	60 - 160
Endothall	105	95.6	P/P	60 - 160
Endothall	95.6	86.1	P/P	60 - 160
Glufosinate	88.4	90.7	P/P	60 - 160
Glufosinate	90.7	87.0	P/P	60 - 160
Glyphosate	108	109	P/P	60 - 160
Glyphosate	99.0	108	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A115071

Included Lab Sample IDs: 2359921, 2359923

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	106	106	P/P	60 - 160
Acesulfame K	107	106	P/P	60 - 160
Sucralose	107	108	P/P	60 - 160
Sucralose	108	105	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115077

Included Lab Sample IDs: 2359914, 2359916

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A115078

Included Lab Sample IDs: 2359921, 2359923

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	94.5	89.1	P/P	50 - 150
2,4,5-T	95.7	93.0	P/P	50 - 150
Acetaminophen	103	103	P/P	60 - 160
Acetamiprid	100	100	P/P	50 - 150
Afidopyropen	96.5	91.9	P/P	50 - 150
Bentazon	101	103	P/P	50 - 160
Benzovindiflupyr	94.8	100	P/P	50 - 150
Carbamazepine	94.1	103	P/P	60 - 150
Clothianidin	97.0	101	P/P	60 - 150
Dinotefuran	103	104	P/P	50 - 150
Diuron	106	112	P/P	60 - 160
Fenuron	98.6	98.9	P/P	60 - 150
Fluridone	111	111	P/P	60 - 160
Fluridone	115	114	P/P	60 - 160
Hydrocodone	98.1	94.5	P/P	60 - 150
Ibuprofen	139	120	P/P	50 - 160
Imazapyr	83.5	73.4	P/P	50 - 150
Imidacloprid	93.3	94.0	P/P	60 - 150
Linuron	102	103	P/P	60 - 150
Mandestrobin	93.4	101	P/P	50 - 150
MCPP	92.5	92.9	P/P	50 - 150
Naproxen	78.3	72.7	P/P	50 - 160
Primidone	101	97.9	P/P	60 - 150
Pyraclostrobin	109	109	P/P	60 - 150
Silvex	94.1	93.1	P/P	50 - 150
Thiamethoxam	94.4	93.1	P/P	50 - 150
Tolfenpyrad	94.8	96.9	P/P	60 - 150
Triclopyr	93.7	100	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A115103

Included Lab Sample IDs: 2359926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	87.2		P	80 - 120
Avobenzene	99.8		P	80 - 120
Dechlorane Plus	94.1		P	80 - 120
Oxybenzone	87.7		P	80 - 120
PBDE-47	87.9		P	80 - 120
PBDE-99	86.7		P	80 - 120
Tri-o-cresyl Phosphate	90.3		P	80 - 120

Reference Method: EPA 8321B

Run ID: A115104

Included Lab Sample IDs: 2359922

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	108	97.2	P/P	60 - 150
Aldicarb	93.7	84.2	P/P	60 - 150
Aldicarb Sulfone	106	105	P/P	50 - 150
Aldicarb Sulfoxide	97.2	69.4	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
 Run ID: A115104
 Included Lab Sample IDs: 2359922

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbaryl	110	129	P/P	60 - 150
Carbofuran	103	126	P/P	50 - 150
Methiocarb	118	101	P/P	50 - 150
Methomyl	105	101	P/P	50 - 150
Oxamyl	102	104	P/P	50 - 150
Propoxur	94.8	115	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
 Run ID: A115126
 Included Lab Sample IDs: 2359914, 2359916

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.0	102	P/P	90 - 110

Reference Method: EPA 8270E
 Run ID: A115128
 Included Lab Sample IDs: 2359924, 2359925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.4		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	97.0		P	80 - 120
Beta-BHC	109		P	80 - 120
Beta-Cyfluthrin	92.8		P	80 - 120
Bifenthrin	93.0		P	80 - 120
Carbophenothion	88.4		P	80 - 120
Chlorothalonil	88.7		P	80 - 120
Cis-Nonachlor	92.8		P	80 - 120
Cypermethrin	87.2		P	80 - 120
Dacthal	96.5		P	80 - 120
DDD-p,p'	94.0		P	80 - 120
DDE-p,p'	93.2		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	98.6		P	80 - 120
Deltamethrin	90.6		P	80 - 120
Dichlobenil	82.8		P	80 - 120
Dicofol	91.3		P	80 - 120
Dieldrin	92.7		P	80 - 120
Endosulfan I	96.0		P	80 - 120
Endosulfan II	98.1		P	80 - 120
Endosulfan Sulfate	91.6		P	80 - 120
Endrin	94.4		P	80 - 120
Endrin Aldehyde	88.6		P	80 - 120
Endrin Ketone	93.3		P	80 - 120
Esfenvalerate	92.5		P	80 - 120
Ethalfuralin	99.9		P	80 - 120
Fenpropathrin	91.7		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	97.0		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	96.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115128

Included Lab Sample IDs: 2359924, 2359925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexachlorobenzene	97.9		P	80 - 120
Kepone	84.8		P	80 - 120
Lambda-Cyhalothrin	96.9		P	80 - 120
Methoprene	92.1		P	80 - 120
Methoxychlor	103		P	80 - 120
MGK-264	94.7		P	80 - 120
Mirex	93.7		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	92.2		P	80 - 120
Phenothrin	88.8		P	80 - 120
Piperonyl Butoxide	86.7		P	80 - 120
Prallethrin	88.7		P	80 - 120
Tau-Fluvalinate	93.4		P	80 - 120
Tetramethrin	92.9		P	80 - 120
Trans-Nonachlor	95.5		P	80 - 120
Triclosan Methyl	91.1		P	80 - 120
Trifluralin	102		P	80 - 120

Reference Method: EPA 8270E

Run ID: A115148

Included Lab Sample IDs: 2359924, 2359925

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

Reference Method: SM 2320 B-2011

Run ID: A115150

Included Lab Sample IDs: 2359913, 2359915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	95.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115150

Included Lab Sample IDs: 2359913, 2359915

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

Reference Method: EPA 8276

Run ID: A115162

Included Lab Sample IDs: 2359924, 2359925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.6		P	80 - 120
Toxaphene	110		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A115188

Included Lab Sample IDs: 2359913, 2359915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	98.5	P/P	90 - 110
Chloride	99.1	100	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110
Sulfate	102	99.7	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115193

Included Lab Sample IDs: 2359926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	100		P	80 - 120
Alachlor	106		P	80 - 120
Ametryn	99.2		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	96.1		P	80 - 120
Azinphos Methyl	115		P	80 - 120
Azoxystrobin	99.5		P	80 - 120
Bromacil	115		P	80 - 120
Butylate	99.5		P	80 - 120
Caffeine	97.4		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	107		P	80 - 120
Chlorfenapyr	99.5		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	104		P	80 - 120
Cyanazine	95.5		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	94.7		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	111		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	97.4		P	80 - 120
Disulfoton	96.9		P	80 - 120
Dithiopyr	108		P	80 - 120
EPTC	98.6		P	80 - 120
Ethion	104		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	106		P	80 - 120
Fenamiphos	99.8		P	80 - 120
Fenbuconazole	104		P	80 - 120
Fipronil	104		P	80 - 120
Fipronil Desulfinyl	110		P	80 - 120
Fipronil Sulfide	107		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	107		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	100		P	80 - 120
Flutolanil	99.6		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	96.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115193
Included Lab Sample IDs: 2359926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexazinone	97.9		P	80 - 120
Imazalil	104		P	80 - 120
Iprodione	103		P	80 - 120
Loratadine	98.2		P	80 - 120
Malathion	96.8		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	98.6		P	80 - 120
Molinate	99.6		P	80 - 120
Myclobutanil	104		P	80 - 120
Naled	106		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	95.3		P	80 - 120
Parathion Methyl	94.8		P	80 - 120
Pendimethalin	100		P	80 - 120
Phenytoin	101		P	80 - 120
Phorate	99.5		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	106		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	104		P	80 - 120
Propanil	107		P	80 - 120
Propargite	107		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	108		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	106		P	80 - 120
Simazine	100		P	80 - 120
Stirophos	103		P	80 - 120
Sulfentrazone	90.2		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	98.1		P	80 - 120
Terbuthylazine	98.9		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	99.5		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A115210
Included Lab Sample IDs: 2359914, 2359916

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	98.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115223

Included Lab Sample IDs: 2359914, 2359916

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	99.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115314

Included Lab Sample IDs: 2359926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Octinoxate	99.2		P	80 - 120

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
DEP SOP: NU-094-1	Color (true)	96.5					0.395	
EPA 180.1 Rev. 2.0	Turbidity	101					4.82	
EPA 300.0 Rev. 2.1	Chloride	101		96.0	97.6		0.476	
	Sulfate	102		98.3	98.9		0.327	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6		103	107			3.62
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101						2.98
EPA 353.2 Rev. 2.0	NO2NO3-N	101		91.2	89.8			1.49
EPA 365.1 Rev. 2.0	Total-P	105		107	107			0.0647
EPA 8270E	2-Ethylhexyl	90.4		78.4	64.4			19.6
	2,3,4,5-tetrabromobenzoate (EHTBB)							
	Acetochlor	118		85.2	83.6			1.90
	Alachlor	109		79.0	79.2			0.245
	Aldrin	38.7	41.8	55.3		7.71		
	Alpha-BHC	89.3	82.3	80.6		8.15		
	Alpha-Chlordane	59.9	63.1	64.1		5.11		
	Ametryn	83.2		65.8	74.3			12.2
	Atrazine	116		94.3	98.3			3.28
	Atrazine Desethyl	95.6		54.5	54.9			0.693
	Avobenzone	96.4		58.3	55.8			4.42
	Azinphos Methyl	130		94.6	92.9			1.75
	Azoxystrobin	142		106	90.4			11.1
	Beta-BHC	120	101	129		17.4		
	Beta-Cyfluthrin	54.5	65.2	69.6		17.8		
	Bifenthrin	41.8	49.5	100		16.9		
	Bromacil	104						8.35
	Butylate	58.4		39.2	35.9			8.80
	Caffeine	71.3		74.5	74.7			0.168
	Carbophenothion	33.7	43.8	40.2		26.0		
	Carbophenothion	122		89.0	84.9			4.80
	Carfentrazone Ethyl	123		78.3	87.4			10.9
	Chlorfenapyr	82.9		72.6	66.6			8.56
	Chlorothalonil	70.5	57.2	24.9		20.8		
	Chlorpyrifos Ethyl	92.2		73.7	74.2			0.717
	Chlorpyrifos Methyl	94.4		72.7	70.1			3.75
	Cis-Nonachlor	54.0	61.1	55.6		12.3		
	Coumaphos	95.2		74.7	66.3			11.9
	Cyanazine	264		127	145			12.8
	Cypermethrin	53.5	63.4	68.6		16.9		
	Cyprodinil	104		82.6	82.4			0.191
	Dacthal	89.2	82.0	83.0		8.33		
	DDD-p,p'	57.7	64.1	56.7		10.5		
	DDE-p,p'	56.0	60.1	59.5		7.01		
	DDT-p,p'	49.3	55.7	65.8		12.2		
	Dechlorane Plus	123		110	86.5			23.5
	Delta-BHC	111	101	102		9.00		
	Deltamethrin	64.4	75.7	75.3		16.1		
	Demeton	81.4		72.4	67.1			7.52
	Diazinon	121		93.7	94.8			1.11
	Dichlobenil	47.0	47.3	17.5		0.593		
	Dicofol	50.7	58.5	74.3		14.3		
	Dieldrin	64.3	66.5	66.3		3.28		
	Difenoconazole	133		97.2	96.2			1.03
	Dimethenamid	88.4		66.1	68.7			3.87

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270E	Dimethomorph	175		126	122			3.25
	Disulfoton	91.6		70.6	65.1			8.10
	Dithiopyr	104		83.2	87.9			5.49
	Endosulfan I	66.2	68.2	69.1		2.93		
	Endosulfan II	72.0	78.9	64.5		9.12		
	Endosulfan Sulfate	83.8	81.4	62.3		2.96		
	Endrin	66.2	68.8	65.7		3.83		
	Endrin Aldehyde	76.7	70.0	40.1		9.18		
	Endrin Ketone	91.5	84.8	69.0		7.58		
	EPTC	52.4		31.8	29.9			6.38
	Esfenvalerate	54.7	64.2	74.0		15.9		
	Ethalfuralin	56.2	64.1	75.8		13.2		
	Ethion	68.7		35.9	34.4			4.20
	Ethoprop	90.9		76.7	72.0			6.30
	Etridiazole	75.8		56.6	53.9			4.80
	Fenamiphos	90.2		77.0	76.5			0.621
	Fenbuconazole	103		71.7	71.4			0.494
	Fenpropathrin	56.8	66.6	62.8		15.9		
	Fipronil	122		88.7	87.2			1.57
	Fipronil Desulfinyl	111		77.2	83.2			7.42
	Fipronil Sulfide	112		85.0	84.3			0.868
	Fipronil Sulfone	113		83.1	77.5			5.77
	Fluazifop-P-butyl	123		88.6	89.6			1.16
	Fludioxonil	105		78.0	71.4			7.99
	Flumioxazin	149		112	113			1.05
	Flutolanil	98.2		62.9	62.2			1.08
	Fluxapyroxad	96.7		42.8	47.4			4.47
	Fonofos	90.9		68.7	67.8			1.38
	Gamma-BHC	95.8	87.9	85.2		8.58		
	Gamma-Chlordane	56.9	59.0	69.9		3.50		
	Heptachlor	47.5	51.2	60.0		7.48		
	Heptachlor Epoxide	67.3	65.8	72.2		2.23		
	Hexachlorobenzene	53.3	59.1	73.2		10.3		
	Hexazinone	91.2		78.4	71.6			6.19
	Imazalil	103		86.8	94.2			8.13
	Iprodione	120		86.6	84.9			1.99
	Kepone	148	158	90.4		6.91		
	Lambda-Cyhalothrin	54.0	60.8	85.0		11.9		
	Loratadine	168		139	123			12.1
	Malathion	86.4		75.2	72.5			3.72
	Metalaxyl	97.7		74.8	74.9			0.0720
	Methoprene	48.0	62.0	70.9		25.6		
	Methoxychlor	57.6	63.3	81.0		9.30		
	Metolachlor	102		68.3	66.0			1.63
	Metribuzin	97.2		88.8	78.3			6.95
	Mevinphos	84.9		73.8	68.9			6.83
	MGK-264	81.7	79.1	91.3		3.15		
	Mirex	41.6	49.9	50.3		18.1		
	Molinate	70.5		55.0	50.9			7.73
	Myclobutanil	107		71.4	72.1			0.888
	Naled	109		76.0	83.7			9.68
	Napropamide	78.8		54.8	56.7			3.56
	Norflurazon	98.5		65.2	60.5			4.43
	Octinoxate	65.1		79.7	79.4			0.384

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270E	Oxadiazon	89.4		65.0	64.1			1.19
	Oxybenzone	65.1		64.6	51.3			23.1
	Oxychlordane	59.2	63.5	76.3		7.00		
	Oxyfluorfen	106		102	104			2.44
	Parathion Ethyl	90.7		78.0	69.5			11.5
	Parathion Methyl	104		94.2	80.5			15.6
	PBDE-47	71.0		60.6	48.9			21.4
	PBDE-99	85.5		72.5	59.3			20.0
	PCB-1016	87.3	87.7	90.3		0.427		
	PCB-1260	85.5	89.6	86.0		4.72		
	Pendimethalin	76.7		75.1	65.5			13.8
	Permethrin	60.1	66.4	76.6		9.92		
	Phenothrin	45.4	50.3	69.1		10.0		
	Phenytain	18.5		10.1	9.27			8.96
	Phorate	83.5		65.7	62.4			5.25
	Piperonyl Butoxide	83.9	83.9	74.7		0.0130		
	Prallethrin	62.7	73.8	61.6		16.3		
	Prodiamine	35.6		58.8	60.4			2.62
	Prometon	58.5		36.8	31.9			14.2
	Prometryn	65.0		52.7	49.4			6.58
	Pronamide	111		74.0	71.5			3.44
	Propanil	117		90.7	89.8			1.04
	Propargite	69.8		49.6	47.1			5.25
	Propiconazole	99.4		71.3	69.1			3.17
	Pyraflufen Ethyl	103		77.0	73.8			4.27
	Pyridaben	88.8		68.5	60.6			12.3
	Pyriproxyfen	86.6		76.3	73.5			3.76
	Simazine	107		76.4	78.5			2.83
	Stiropfos	65.4		47.6	46.7			1.87
	Sulfentrazone	110		67.2	69.9			2.48
	Tau-Fluvalinate	46.2	57.8	69.2		22.3		
	Tebuconazole	55.8		29.9	27.7			3.41
	Terbufos	110		89.9	88.9			1.08
	Terbutylazine	105		80.4	87.4			8.32
	Tetramethrin	93.6	96.4	121		2.99		
	Thiobencarb	88.0		73.1	69.7			4.69
	Trans-Nonachlor	50.9	60.6	60.1		17.4		
	Tri-o-cresyl Phosphate	76.9		68.6	55.5			21.2
	Triadimefon	90.5		76.1	77.1			1.38
	Triclosan Methyl	62.2	66.9	64.1		7.27		
	Trifluralin	55.6	62.7	68.4		11.9		
EPA 8276	Chlordane	78.9	74.2	89.9		6.16		
	Toxaphene	83.6	84.2	106		0.780		
EPA 8321B	2,4-D	95.8		106	108			1.63
	2,4,5-T	89.5		98.9	97.1			1.77
	3-Hydroxycarbofuran	81.7		78.7	77.0			2.25
	Acesulfame K	106		70.8	70.5			0.369
	Acetaminophen	98.4		114	118			3.80
	Acetamiprid	78.8		71.5	71.3			0.288
	Afidopyropen	65.3		80.4	79.9			0.562
	Aldicarb	52.1		23.4	28.2			18.8
	Aldicarb Sulfone	91.4		93.9	97.2			3.43
	Aldicarb Sulfoxide	82.5		48.3	49.0			1.55
	AMPA	109		91.7	90.6			0.607

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Bentazon	33.3				3.73
	Benzovindiflupyr	82.6	73.6	74.9		1.66
	Carbamazepine	75.3	68.8	68.8		0.0070
	Carbaryl	77.9	63.9	54.0		16.8
	Carbofuran	88.7	59.2	53.4		10.3
	Clothianidin	96.1	111	115		3.93
	Dinotefuran	95.8	106	111		5.04
	Diuron	76.3	71.9	67.1		5.39
	Endothall	97.8	157	154		1.52
	Fenuron	103	85.9	88.1		2.52
	Fluridone	97.7	87.6	89.3		1.39
	Glufosinate	91.6	86.0	83.4		3.09
	Glyphosate	103	106	105		0.631
	Hydrocodone	93.6	93.6	94.2		0.654
	Ibuprofen	79.3	74.2	62.6		16.9
	Imazapyr	88.7	99.6	99.4		0.222
	Imidacloprid	132	117	114		1.73
	Linuron	76.2	72.2	69.8		3.31
	Mandestrobin	86.9	84.7	83.3		1.74
	MCPP	101	119	116		2.75
	Methiocarb	73.9	58.7	66.3		12.2
	Methomyl	87.4	68.7	69.5		1.06
	Naproxen	98.6	95.4	110		14.1
	Oxamyl	85.1	70.9	74.2		4.54
	Primidone	90.9	92.2	97.1		4.77
	Propoxur	78.8	51.7	46.8		10.1
	Pyraclostrobin	91.1	90.8	91.8		1.04
	Silvex	79.9	91.9	97.4		5.89
	Sucralose	105	101	102		0.550
	Thiamethoxam	91.8	122	125		2.54
	Tolfenpyrad	44.2	47.2	49.1		3.86
	Triclopyr	83.3	93.7	95.3		1.68
SM 2320 B-2011	Total Alkalinity	99.3			0.859	
SM 2540 C-2011	TDS				2.96	
SM 4500-F- C-2011	Fluoride	100	100	99.5		0.477
SM 5310 B-2011	Organic Carbon	98.6	102			0.590

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2359913, 2359915
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2359913, 2359915
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2359913, 2359915
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2359913, 2359915
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2359914, 2359916
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2359914, 2359916
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2359914, 2359916
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2359914, 2359916
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2359926
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2359924, 2359925
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2359926
EPA 8270E	PCBs in water matrices by GC/MS/MS	2359924, 2359925

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2359924, 2359925
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2359922
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2359921, 2359923
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2359913, 2359915
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2359913, 2359915
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2359913, 2359915
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2359913, 2359915
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2359914, 2359916

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	09/28/2022			09/28/2022 11:57	Blanca Fach	2359913, 2359915
EPA 180.1 Rev. 2.0	09/28/2022			09/28/2022 11:09	Chandler E Cox	2359913
	09/28/2022			09/28/2022 11:10	Chandler E Cox	2359915
EPA 300.0 Rev. 2.1	09/28/2022			10/06/2022 17:40	Anna M. Plaviak	2359913
	09/28/2022			10/06/2022 20:56	Anna M. Plaviak	2359915
EPA 350.1 Rev. 2.0	09/28/2022			10/11/2022 13:40	Judith K. Clark	2359914
	09/28/2022			10/11/2022 13:41	Judith K. Clark	2359916
EPA 351.2 Rev. 2.0	09/28/2022	10/04/2022 11:28	Alexandra J Mattheus	10/04/2022 16:53	Samantha L Bates	2359914
	09/28/2022	10/04/2022 11:28	Alexandra J Mattheus	10/04/2022 16:54	Samantha L Bates	2359916
EPA 353.2 Rev. 2.0	09/28/2022			09/29/2022 13:56	Judith K. Clark	2359914
	09/28/2022			09/29/2022 13:57	Judith K. Clark	2359916
EPA 365.1 Rev. 2.0	09/28/2022	09/30/2022 12:23	Adam P Silver	10/03/2022 10:54	James L Waggeberby	2359914
	09/28/2022	09/30/2022 12:23	Adam P Silver	10/03/2022 10:55	James L Waggeberby	2359916
EPA 8270E	09/28/2022	10/02/2022 09:30	Rasheda Ghaffari	10/03/2022 20:37	Lipi Saha	2359926
	09/28/2022	10/02/2022 09:30	Rasheda Ghaffari	10/07/2022 17:44	Michael Poppell	2359926
	09/28/2022	10/03/2022 08:00	Fe-Val Siddell	10/04/2022 19:49	Vandana T. Nagar	2359924
	09/28/2022	10/03/2022 08:00	Fe-Val Siddell	10/04/2022 20:19	Vandana T. Nagar	2359925
	09/28/2022	10/03/2022 08:00	Fe-Val Siddell	10/05/2022 22:00	Julie Wi	2359924
	09/28/2022	10/03/2022 08:00	Fe-Val Siddell	10/05/2022 22:30	Julie Wi	2359925
	09/28/2022	10/10/2022 08:00	Fe-Val Siddell	10/12/2022 18:15	Lipi Saha	2359926
EPA 8276	09/28/2022	10/03/2022 08:00	Fe-Val Siddell	10/07/2022 02:30	Arthur Maknenko	2359924
	09/28/2022	10/03/2022 08:00	Fe-Val Siddell	10/07/2022 03:26	Arthur Maknenko	2359925
EPA 8321B	09/28/2022	09/30/2022 09:00	Umesh Chiluwal	09/30/2022 10:51	Umesh Chiluwal	2359923
	09/28/2022	09/30/2022 09:00	Umesh Chiluwal	09/30/2022 13:01	Umesh Chiluwal	2359921
	09/28/2022	09/30/2022 09:00	Umesh Chiluwal	09/30/2022 16:34	Umesh Chiluwal	2359923
	09/28/2022	09/30/2022 09:00	Umesh Chiluwal	09/30/2022 19:04	Umesh Chiluwal	2359921
	09/28/2022	09/30/2022 09:30	June Rhew	09/30/2022 22:32	Juyoung Kim	2359921
	09/28/2022	09/30/2022 09:30	June Rhew	09/30/2022 22:50	Juyoung Kim	2359923
	09/28/2022	09/30/2022 09:30	June Rhew	10/03/2022 10:56	Juyoung Kim	2359921
	09/28/2022	10/03/2022 08:20	June Rhew	10/03/2022 19:09	Juyoung Kim	2359922
SM 2320 B-2011	09/28/2022			10/06/2022 00:40	Dale L. Simmons	2359913
	09/28/2022			10/06/2022 00:52	Dale L. Simmons	2359915
SM 2540 C-2011	09/28/2022			09/30/2022 16:11	Yijie Li	2359913, 2359915
SM 2540 D-2011	09/28/2022			09/30/2022 16:11	Yijie Li	2359913, 2359915
SM 4500-F- C-2011	09/28/2022			10/06/2022 00:40	Dale L. Simmons	2359913
	09/28/2022			10/06/2022 00:52	Dale L. Simmons	2359915
SM 5310 B-2011	09/28/2022			10/06/2022 22:31	Touraj Touran	2359914
	09/28/2022			10/06/2022 22:45	Touraj Touran	2359916