

Chemical Analysis Report

CEN-DIST-2023-07-26-02

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

Event Description: **Run 17**
Request ID: **RQ-2023-07-24-11**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Colin Wright, Program Administrator

Date Certified: 14-AUG-2023 15:11



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 group are included in this report: 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: SOLDIER CREEK S OF 427

Collection Date/Time: 07/25/2023 09:47

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426817	EPA 8321B	Aldicarb	0.020	U	ug/L	P433156	
		Aldicarb Sulfone	0.0020	U	ug/L	P433156	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P433156	MS
		Carbaryl	0.0020	U	ug/L	P433156	MS
		Carbofuran	0.0020	U	ug/L	P433156	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P433156	
		Methiocarb	0.0020	U	ug/L	P433156	MS
		Methomyl	0.0020	U	ug/L	P433156	
		Oxamyl	0.0020	U	ug/L	P433156	
		Propoxur	0.0020	U	ug/L	P433156	MS
2426818		2,4-D	0.0032	I	ug/L	P433066	
		Acesulfame K	0.12	I	ug/L	P432932	
		2,4,5-T	0.0040	U	ug/L	P433066	
		AMPA	0.26	I	ug/L	P432932	
		Acetaminophen	0.0080	U	ug/L	P433066	
		Endothall	0.25	U	ug/L	P432932	
		Acetamiprid	0.0020	U	ug/L	P433066	RPD
		Glufosinate	0.10	U	ug/L	P432932	
		Glyphosate	0.10	U	ug/L	P432932	
		Afidopyropen	0.0020	U	ug/L	P433066	
		Sucralose	0.86		ug/L	P432932	
		Bentazon	0.30		ug/L	P433066	MS
		Benzovindiflupyr	0.0020	U	ug/L	P433066	
		Carbamazepine	8.0E-04	U	ug/L	P433066	
		Clothianidin	0.0020	U	ug/L	P433066	
		Dinotefuran	0.0020	U	ug/L	P433066	
		Diuron	0.012		ug/L	P433066	MS
		Fenuron	0.032	U	ug/L	P433066	
		Fluridone	0.0097		ug/L	P433066	
		Imazapyr	0.072		ug/L	P433066	
		Hydrocodone	0.0020	U	ug/L	P433066	
		Ibuprofen	0.080	U	ug/L	P433066	
		Imidacloprid	0.0073	I	ug/L	P433066	
		Linuron	0.0040	U	ug/L	P433066	
		Mandestrobin	0.0020	U	ug/L	P433066	
		MCPP	0.0020	U	ug/L	P433066	
		Naproxen	0.0080	U	ug/L	P433066	
		Primidone	0.0040	U	ug/L	P433066	
		Pyraclostrobin	0.0020	U	ug/L	P433066	
		Silvex	0.0040	U	ug/L	P433066	
		Thiamethoxam	0.0020	U	ug/L	P433066	
		Tolfenpyrad	0.0020	U	ug/L	P433066	
		Triclopyr	0.0040	U	ug/L	P433066	
2426826	EPA 8270E	Aldrin	0.68	U	ng/L	P433074	

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426826	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P433074	CCV
		Alpha-Chlordane	0.21	U	ng/L	P433074	
		PCB-1016	2.1	U	ng/L	P433074	
		Beta-BHC	0.11	U	ng/L	P433074	
		PCB-1221	2.1	U	ng/L	P433074	
		Beta-Cyfluthrin	1.3	U	ng/L	P433074	
		PCB-1232	2.1	U	ng/L	P433074	
		Bifenthrin	0.53	U	ng/L	P433074	
		PCB-1242	2.1	U	ng/L	P433074	
		PCB-1248	2.1	U	ng/L	P433074	
		Chlorothalonil	3.8	U	ng/L	P433074	
		PCB-1254	2.1	U	ng/L	P433074	
		Cis-Nonachlor	0.21	U	ng/L	P433074	
		PCB-1260	2.1	U	ng/L	P433074	
		Cypermethrin	1.6	U	ng/L	P433074	
		Dacthal	0.16	U	ng/L	P433074	
		DDD-p,p'	0.26	U	ng/L	P433074	
		DDE-p,p'	0.21	U	ng/L	P433074	
		DDT-p,p'	0.84	U	ng/L	P433074	
		Delta-BHC	0.42	U	ng/L	P433074	
		Deltamethrin	1.3	U	ng/L	P433074	
		Dichlobenil	0.26	U	ng/L	P433074	
		Dicofol	1.3	U	ng/L	P433074	
		Dieldrin	0.42	U	ng/L	P433074	
		Endosulfan I	0.42	U	ng/L	P433074	
		Endosulfan II	0.95	U	ng/L	P433074	
		Endosulfan Sulfate	0.32	U	ng/L	P433074	
		Endrin	0.95	U	ng/L	P433074	
		Endrin Aldehyde	0.79	U	ng/L	P433074	
		Endrin Ketone	0.42	U	ng/L	P433074	
		Esfenvalerate	0.79	U	ng/L	P433074	
		Ethalfuralin	0.16	U	ng/L	P433074	
		Fenpropathrin	0.26	U	ng/L	P433074	
		Gamma-BHC	0.13	U	ng/L	P433074	
		Gamma-Chlordane	0.21	U	ng/L	P433074	
		Heptachlor	0.21	U	ng/L	P433074	
		Heptachlor Epoxide	0.26	U	ng/L	P433074	
		Hexachlorobenzene**	1.1	U	ng/L	P433074	
		Kepone	14	UJ	ng/L	P433074	
		Lambda-Cyhalothrin	0.79	U	ng/L	P433074	
		Methoprene	0.79	U	ng/L	P433074	
		Methoxychlor	0.32	U	ng/L	P433074	
		MGK-264	0.21	U	ng/L	P433074	
		Mirex	0.37	U	ng/L	P433074	
		Oxychlordane	0.32	U	ng/L	P433074	

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426826	EPA 8270E	Permethrin	1.7	U	ng/L	P433074	MS
		Phenothrin	0.95	U	ng/L	P433074	
		Piperonyl Butoxide	0.16	U	ng/L	P433074	
		Prallethrin	2.1	U	ng/L	P433074	
		Tau-Fluvalinate	0.26	U	ng/L	P433074	
		Tetramethrin	0.79	U	ng/L	P433074	
		Trans-Nonachlor	0.21	U	ng/L	P433074	
		Triclosan Methyl	0.16	U	ng/L	P433074	
		Trifluralin	0.21	U	ng/L	P433074	
		Chlordane	2.1	U	ng/L	P433074	
	EPA 8276	Toxaphene	16	U	ng/L	P433074	MS
		Oxybenzone**	10	U	ng/L	P432954	
		Acetochlor	0.21	U	ng/L	P432954	
		Octinoxate**	160	U	ng/L	P432954	
		Alachlor	0.41	U	ng/L	P432954	
		Avobenzone**	100	U	ng/L	P432954	
		Ametryn	1.1	U	ng/L	P432954	
		Atrazine	6.3		ng/L	P432954	
		PBDE-47**	4.1	U	ng/L	P432954	
		Atrazine Desethyl	1.3	U	ng/L	P432954	
2426827	EPA 8270E	PBDE-99**	5.2	U	ng/L	P432954	LCS, MS
		Azinphos Methyl	3.1	U	ng/L	P432954	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P432954	
		Azoxystrobin	0.41	U	ng/L	P432954	
		Bromacil	0.62	U	ng/L	P432954	
		2-Ethylhexyl	12	U	ng/L	P432954	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P432954	
		Dechlorane Plus**	31	U	ng/L	P432954	
		Caffeine**	7.8	U	ng/L	P432954	
		Dechlorane 602**	5.2	UJ	ng/L	P432954	
		Carbophenothion	0.52	U	ng/L	P432954	
		Dechlorane 603**	4.1	U	ng/L	P432954	
		Carfentrazone Ethyl	0.16	U	ng/L	P432954	
		Hexabromobenzene**	6.2	U	ng/L	P432954	
		Chlorfenapyr	0.31	U	ng/L	P432954	
		PBB-153**	8.3	U	ng/L	P432954	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P432954	
		Pentabromotoluene**	3.1	U	ng/L	P432954	
		Chlorpyrifos Methyl	0.10	U	ng/L	P432954	
		Tris(2-chloroethyl) phosphate (TCEP)**	73	U	ng/L	P432954	
		Coumaphos	1.1	U	ng/L	P432954	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	56		ng/L	P432954	
		Cyanazine	5.2	U	ng/L	P432954	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	I	ng/L	P432954	

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426827	EPA 8270E	Cyprodinil	0.21	U	ng/L	P432954	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P432954	
		Demeton	3.6	U	ng/L	P432954	
		Diazinon	0.13	U	ng/L	P432954	
		Difenoconazole	0.62	UJ	ng/L	P432954	LCS
		Dimethenamid	0.10	U	ng/L	P432954	
		Dimethomorph	0.31	U	ng/L	P432954	MS
		Disulfoton	0.62	U	ng/L	P432954	
		Dithiopyr	1.0	U	ng/L	P432954	
		EPTC	0.52	U	ng/L	P432954	
		Ethion	0.31	U	ng/L	P432954	
		Ethoprop	0.13	U	ng/L	P432954	
		Etridiazole	0.10	U	ng/L	P432954	RPD
		Fenamiphos	0.47	U	ng/L	P432954	
		Fenbuconazole	0.52	UJ	ng/L	P432954	LCS
		Fipronil	0.41	I	ng/L	P432954	
		Fipronil Desulfinyl**	1.0		ng/L	P432954	
		Fipronil Sulfide	0.98		ng/L	P432954	
		Fipronil Sulfone	1.2		ng/L	P432954	
		Fluazifop-P-butyl	0.10	U	ng/L	P432954	
		Fludioxonil	0.10	U	ng/L	P432954	
		Flumioxazin	3.1	UJ	ng/L	P432954	LCS
		Flutolanil	0.10	U	ng/L	P432954	
		Fluxapyroxad	0.26	U	ng/L	P432954	
		Fonofos	0.16	U	ng/L	P432954	
		Hexazinone	0.52	U	ng/L	P432954	
		Imazalil	0.67	U	ng/L	P432954	
		Iprodione	0.52	UJ	ng/L	P432954	CCV
		Loratadine**	0.31	U	ng/L	P432954	MS
		Malathion	0.36	U	ng/L	P432954	
		Metalaxyl	0.52	U	ng/L	P432954	
		Metolachlor	0.78	U	ng/L	P432954	
		Metribuzin	0.41	U	ng/L	P432954	
		Mevinphos	1.0	U	ng/L	P432954	
		Molinate	0.26	U	ng/L	P432954	
		Myclobutanil	0.36	U	ng/L	P432954	
		Naled	2.6	U	ng/L	P432954	
		Napropamide	0.73	U	ng/L	P432954	
		Norflurazon	1.0	U	ng/L	P432954	
		Oxadiazon	0.77	I	ng/L	P432954	
		Oxyfluorfen	0.21	U	ng/L	P432954	
		Parathion Ethyl	0.16	U	ng/L	P432954	
		Parathion Methyl	0.21	U	ng/L	P432954	
		Pendimethalin	0.78	U	ng/L	P432954	
		Phenytol**	5.5	U	ng/L	P432954	

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426827	EPA 8270E	Phorate	0.26	U	ng/L	P432954	
		Prodiamine	0.21	U	ng/L	P432954	
		Prometon	3.1	U	ng/L	P432954	
		Prometryn	0.36	U	ng/L	P432954	
		Pronamide	0.10	U	ng/L	P432954	
		Propanil	0.10	U	ng/L	P432954	
		Propargite	0.83	U	ng/L	P432954	
		Propiconazole	0.62	U	ng/L	P432954	
		Pyraflufen Ethyl	0.31	U	ng/L	P432954	
		Pyridaben	1.5	U	ng/L	P432954	
		Pyriproxyfen	0.26	UJ	ng/L	P432954	LCS
		Simazine	0.26	U	ng/L	P432954	
		Stirophos	0.41	U	ng/L	P432954	
		Sulfentrazone	22		ng/L	P432954	
		Tebuconazole	1.5	U	ng/L	P432954	
		Terbufos	0.21	U	ng/L	P432954	
		Terbutylazine	0.21	U	ng/L	P432954	
		Thiobencarb	0.52	U	ng/L	P432954	
		Triadimefon	0.16	U	ng/L	P432954	

Ref. Method and Comment:

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

EPA 8270E: MS accuracy for atrazine 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.

Sample Location: GEE CREEK AT SR HWY 419

Collection Date/Time: 07/25/2023 10:10

Field ID: G2CE0075

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426819	EPA 8321B	2,4-D	0.29		ug/L	P433066	
		Acesulfame K	0.10	U	ug/L	P432932	
		2,4,5-T	0.0040	U	ug/L	P433066	
		AMPA	0.25	I	ug/L	P432932	
		Acetaminophen	0.0080	U	ug/L	P433066	
		Endothall	0.25	U	ug/L	P432932	
		Acetamiprid	0.0020	U	ug/L	P433066	RPD
		Glufosinate	0.10	U	ug/L	P432932	
		Glyphosate	0.10	U	ug/L	P432932	
		Afidopyropen	0.0020	U	ug/L	P433066	
		Sucralose	0.98		ug/L	P432932	
		Bentazon	0.067		ug/L	P433066	MS
		Benzovindiflupyr	0.0020	U	ug/L	P433066	
		Carbamazepine	8.0E-04	U	ug/L	P433066	
		Clothianidin	0.0091		ug/L	P433066	
		Dinotefuran	0.0020	U	ug/L	P433066	
		Diuron	0.0020	U	ug/L	P433066	MS
		Fenuron	0.032	U	ug/L	P433066	
		Fluridone	0.016		ug/L	P433066	
		Imazapyr	0.073		ug/L	P433066	
		Hydrocodone	0.0020	U	ug/L	P433066	
		Ibuprofen	0.080	U	ug/L	P433066	
		Imidacloprid	0.010		ug/L	P433066	
		Linuron	0.0040	U	ug/L	P433066	
		Mandestrobin	0.0020	U	ug/L	P433066	
		MCPP	0.0020	U	ug/L	P433066	
		Naproxen	0.0080	U	ug/L	P433066	
		Primidone	0.0040	U	ug/L	P433066	
		Pyraclostrobin	0.0020	U	ug/L	P433066	
		Silvex	0.0040	U	ug/L	P433066	
		Thiamethoxam	0.0020	U	ug/L	P433066	
		Tolfenpyrad	0.0020	U	ug/L	P433066	
		Triclopyr	0.0040	U	ug/L	P433066	
2426828	EPA 8270E	Aldrin	0.68	U	ng/L	P433074	
		Alpha-BHC	0.10	U	ng/L	P433074	
		Alpha-Chlordane	0.21	U	ng/L	P433074	
		PCB-1016	2.1	U	ng/L	P433074	
		Beta-BHC	0.10	U	ng/L	P433074	
		PCB-1221	2.1	U	ng/L	P433074	
		Beta-Cyfluthrin	1.3	U	ng/L	P433074	
		PCB-1232	2.1	U	ng/L	P433074	
		Bifenthrin	0.52	U	ng/L	P433074	
		PCB-1242	2.1	U	ng/L	P433074	
		Carbophenothion	0.94	U	ng/L	P433074	

Field ID: G2CE0075

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426828	EPA 8270E	PCB-1248	2.1	U	ng/L	P433074	
		Chlorothalonil	3.7	U	ng/L	P433074	
		PCB-1254	2.1	U	ng/L	P433074	
		Cis-Nonachlor	0.21	U	ng/L	P433074	
		PCB-1260	2.1	U	ng/L	P433074	
		Cypermethrin	1.6	U	ng/L	P433074	
		Dacthal	0.16	U	ng/L	P433074	
		DDD-p,p'	0.26	U	ng/L	P433074	
		DDE-p,p'	0.21	U	ng/L	P433074	
		DDT-p,p'	0.83	U	ng/L	P433074	
		Delta-BHC	0.42	U	ng/L	P433074	
		Deltamethrin	1.3	U	ng/L	P433074	
		Dichlobenil	0.26	U	ng/L	P433074	
		Dicofol	1.3	U	ng/L	P433074	
		Dieldrin	0.42	U	ng/L	P433074	
		Endosulfan I	0.42	U	ng/L	P433074	
		Endosulfan II	0.94	U	ng/L	P433074	
		Endosulfan Sulfate	0.31	U	ng/L	P433074	
		Endrin	0.94	U	ng/L	P433074	
		Endrin Aldehyde	0.78	U	ng/L	P433074	
		Endrin Ketone	0.42	U	ng/L	P433074	
		Esfenvalerate	0.78	U	ng/L	P433074	
		Ethalfuralin	0.16	U	ng/L	P433074	
		Fenpropathrin	0.26	U	ng/L	P433074	
		Gamma-BHC	0.13	U	ng/L	P433074	
		Gamma-Chlordane	0.21	I	ng/L	P433074	
		Heptachlor	0.21	U	ng/L	P433074	
		Heptachlor Epoxide	0.26	U	ng/L	P433074	
		Hexachlorobenzene**	1.0	U	ng/L	P433074	
		Kepone	14	UJ	ng/L	P433074	CCV
		Lambda-Cyhalothrin	0.78	U	ng/L	P433074	
		Methoprene	0.78	U	ng/L	P433074	
		Methoxychlor	0.31	U	ng/L	P433074	
		MGK-264	0.21	U	ng/L	P433074	
		Mirex	0.36	U	ng/L	P433074	
		Oxychlordane	0.31	U	ng/L	P433074	
		Permethrin	1.7	U	ng/L	P433074	
		Phenothrin	0.94	U	ng/L	P433074	
		Piperonyl Butoxide	0.16	U	ng/L	P433074	
		Prallethrin	2.1	U	ng/L	P433074	
		Tau-Fluvalinate	0.26	U	ng/L	P433074	MS
		Tetramethrin	0.78	U	ng/L	P433074	
		Trans-Nonachlor	0.21	U	ng/L	P433074	
		Triclosan Methyl	0.16	U	ng/L	P433074	
		Trifluralin	0.21	U	ng/L	P433074	

Field ID: G2CE0075

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426828	EPA 8276	Chlordane	2.1	U	ng/L	P433074	
		Toxaphene	16	U	ng/L	P433074	

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432954

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	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432954

Component	Result	Code	Units
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432954

Component	Result	Code	Units
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	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	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiatone	0.20	U	ng/L
Prodiatone	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432954

Component	Result	Code	Units
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E

Batch ID: P433074

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P433074

Component	Result	Code	Units
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
DDT-p,p'	0.80	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	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P433074

Component	Result	Code	Units
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	14	U	ng/L
Kepone	14	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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276

Batch ID: P433074

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

Reference Method: EPA 8321B

Batch ID: P432932

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: P433066

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	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: P433156

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P433156

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

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432954

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	62.1		P	42 - 162
Acetochlor	90.0		P	69 - 123
Alachlor	78.9		P	65 - 118
Ametryn	113		P	58 - 141
Atrazine	92.5		P	73 - 118
Atrazine Desethyl	83.1		P	32 - 125
Avobenzone	113		P	40 - 203
Azinphos Methyl	70.4		P	36 - 197
Azoxystrobin	86.3		P	58 - 226
Bromacil	91.8		P	48 - 120
Butylate	71.4		P	27 - 85.0
Caffeine	93.3		P	40 - 137
Carbophenothion	99.3		P	54 - 132
Carfentrazone Ethyl	104		P	60 - 142
Chlorfenapyr	81.5		P	53 - 117
Chlorpyrifos Ethyl	100		P	59 - 116
Chlorpyrifos Methyl	95.6		P	66 - 119
Coumaphos	95.3		P	11 - 234
Cyanazine	154		P	61 - 248
Cyprodinil	106		P	50 - 147
Dechlorane 602	28.0		F	50 - 150
Dechlorane 603	86.9		P	50 - 150
Dechlorane Plus	65.3		P	47 - 182
Demeton	104		P	30 - 138
Diazinon	109		P	67 - 126
Difenoconazole	34.2		F	38 - 205
Dimethenamid	79.8		P	57 - 111
Dimethomorph	138		P	16 - 212
Disulfoton	103		P	46 - 126
Dithiopyr	97.3		P	62 - 115
EPTC	70.3		P	28 - 80.0
Ethion	34.6		P	24 - 122
Ethoprop	105		P	62 - 113
Etridiazole	81.7		P	28 - 92.0
Fenamiphos	105		P	57 - 128
Fenbuconazole	44.8		F	52 - 155
Fipronil	106		P	63 - 130
Fipronil Desulfinyl	98.3		P	61 - 130
Fipronil Sulfide	97.8		P	56 - 117
Fipronil Sulfone	93.2		P	52 - 118
Fluazifop-P-butyl	87.1		P	61 - 128
Fludioxonil	69.3		P	59 - 129
Flumioxazin	18.1		F	30 - 250
Flutolanil	81.7		P	53 - 127
Fluxapyroxad	53.8		P	42 - 132
Fonofos	92.7		P	61 - 110
Hexabromobenzene	88.3		P	50 - 150
Hexazinone	85.4		P	46 - 139
Imazalil	96.4		P	40 - 139
Iprodione	62.8		P	40 - 146
Loratadine	128		P	10 - 224
Malathion	85.9		P	61 - 135

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432954

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	103		P	58 - 121
Metolachlor	84.4		P	64 - 118
Metribuzin	99.9		P	45 - 245
Mevinphos	115		P	49 - 118
Molinate	61.5		P	42 - 92.0
Myclobutanil	89.4		P	55 - 127
Naled	43.9		P	10 - 114
Napropamide	65.6		P	39 - 121
Norflurazon	98.6		P	55 - 129
Octinoxate	101		P	26 - 166
Oxadiazon	80.9		P	54 - 115
Oxybenzone	110		P	49 - 135
Oxyfluorfen	91.4		P	64 - 139
Parathion Ethyl	109		P	70 - 111
Parathion Methyl	116		P	76 - 136
PBB-153	61.9		P	50 - 150
PBDE-47	52.7		P	41 - 148
PBDE-99	41.1		P	38 - 147
Pendimethalin	118		P	52 - 118
Pentabromotoluene	86.1		P	50 - 150
Phenytoin	24.0		P	10 - 162
Phorate	99.9		P	40 - 122
Prodiamine	48.5		P	26 - 141
Prometon	110		P	54 - 122
Prometryn	127		P	61 - 128
Pronamide	108		P	72 - 121
Propanil	86.9		P	45 - 144
Propargite	34.7		P	10 - 199
Propiconazole	66.5		P	56 - 127
Pyraflufen Ethyl	95.4		P	56 - 140
Pyridaben	88.7		P	26 - 211
Pyriproxyfen	32.5		F	33 - 194
Simazine	74.5		P	67 - 121
Stirophos	26.7		P	20 - 142
Sulfentrazone	68.9		P	21 - 144
Tebuconazole	34.3		P	10 - 122
Terbufos	111		P	60 - 129
Terbuthylazine	86.3		P	69 - 113
Tetradecachloro-m-terphenyl	172		P	70 - 200
Thiobencarb	83.0		P	51 - 120
Tri-o-cresyl Phosphate	101		P	49 - 150
Triadimefon	79.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	105		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.5		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	103		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P433074

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.0		P	30 - 96.0
Alpha-BHC	86.8		P	70 - 109

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P433074

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	82.5		P	45 - 107
Beta-BHC	83.3		P	64 - 138
Beta-Cyfluthrin	81.5		P	17 - 141
Bifenthrin	53.3		P	10 - 113
Carbophenothion	48.9		P	24 - 91.0
Chlorothalonil	90.6		P	26 - 180
Cis-Nonachlor	74.6		P	37 - 102
Cypermethrin	94.8		P	20 - 133
Dacthal	85.8		P	69 - 114
DDD-p,p'	73.8		P	42 - 105
DDE-p,p'	77.5		P	42 - 106
DDT-p,p'	70.0		P	42 - 107
Delta-BHC	96.3		P	67 - 144
Deltamethrin	128		P	15 - 149
Dichlobenil	74.9		P	46 - 117
Dicofol	76.8		P	34 - 114
Dieldrin	79.2		P	50 - 108
Endosulfan I	89.0		P	55 - 104
Endosulfan II	60.6		P	51 - 111
Endosulfan Sulfate	77.2		P	56 - 121
Endrin	80.1		P	10 - 106
Endrin Aldehyde	69.6		P	34 - 114
Endrin Ketone	82.6		P	63 - 177
Esfenvalerate	88.4		P	29 - 143
Ethalfuralin	75.8		P	46 - 96.0
Fenpropathrin	85.0		P	28 - 115
Gamma-BHC	83.6		P	65 - 121
Gamma-Chlordane	56.3		P	39 - 103
Heptachlor	71.1		P	39 - 94.0
Heptachlor Epoxide	81.9		P	54 - 104
Hexachlorobenzene	67.7		P	36 - 100
Kepone	79.9		P	10 - 225
Lambda-Cyhalothrin	64.8		P	10 - 135
Methoprene	48.7		P	10 - 109
Methoxychlor	77.7		P	52 - 112
MGK-264	63.0		P	44 - 117
Mirex	65.4		P	20 - 90.0
Oxychlordane	73.8		P	44 - 102
PCB-1016	66.9		P	45 - 107
PCB-1260	70.1		P	40 - 118
Permethrin	73.5		P	18 - 135
Phenothrin	57.8		P	10 - 102
Piperonyl Butoxide	66.0		P	28 - 156
Prallethrin	69.7		P	28 - 113
Tau-Fluvalinate	88.3		P	10 - 123
Tetramethrin	116		P	18 - 158
Trans-Nonachlor	54.1		P	39 - 104
Triclosan Methyl	82.4		P	54 - 108
Trifluralin	72.1		P	46 - 97.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P433074

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.7		P	52 - 117
Toxaphene	89.4		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P432932

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	94.9		P	40 - 150
AMPA	57.2		P	40 - 150
Endothall	91.1		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	110		P	40 - 150
Sucralose	96.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P433066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	85.2		P	40 - 150
2,4,5-T	79.8		P	40 - 150
Acetaminophen	83.3		P	30 - 150
Acetamiprid	80.9		P	40 - 150
Afidopyropen	54.4		P	30 - 150
Bentazon	137		P	30 - 150
Benzovindiflupyr	79.0		P	40 - 150
Carbamazepine	73.7		P	40 - 150
Clothianidin	97.5		P	40 - 150
Dinotefuran	114		P	40 - 150
Diuron	60.5		P	40 - 150
Fenuron	103		P	40 - 150
Fluridone	96.6		P	40 - 150
Hydrocodone	96.8		P	40 - 150
Ibuprofen	70.8		P	40 - 150
Imazapyr	84.6		P	40 - 150
Imidacloprid	86.4		P	40 - 150
Linuron	66.0		P	40 - 150
Mandestrobin	89.7		P	40 - 150
MCPP	85.6		P	40 - 150
Naproxen	78.2		P	40 - 150
Primidone	91.1		P	40 - 150
Pyraclostrobin	57.1		P	40 - 150
Silvex	85.4		P	40 - 150
Thiamethoxam	93.2		P	40 - 150
Tolfenpyrad	30.6		P	30 - 150
Triclopyr	79.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P433156

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	76.4		P	40 - 150
Aldicarb	59.9		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P433156

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfone	78.7		P	40 - 150
Aldicarb Sulfoxide	75.1		P	40 - 150
Carbaryl	62.3		P	40 - 150
Carbofuran	61.7		P	40 - 150
Methiocarb	54.8		P	40 - 150
Methomyl	77.0		P	40 - 150
Oxamyl	81.4		P	40 - 150
Propoxur	60.3		P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426850	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	82.8	90.9	P/P	26 - 165
2426850	Acetochlor	94.8	85.0	P/P	67 - 124
2426850	Alachlor	77.9	68.5	P/P	60 - 120
2426850	Ametryn	132	112	P/P	54 - 216
2426850	Atrazine Desethyl	95.7	74.4	P/P	15 - 122
2426850	Avobenzone	109	98.1	P/P	37 - 178
2426850	Azinphos Methyl	103	109	P/P	40 - 292
2426850	Azoxystrobin	95.2	110	P/P	35 - 220
2426850	Bromacil	104	85.8	P/P	45 - 127
2426850	Butylate	66.8	61.3	P/P	20 - 83.0
2426850	Caffeine	101	104	P/P	10 - 194
2426850	Carbophenothion	102	106	P/P	57 - 127
2426850	Carfentrazone Ethyl	115	110	P/P	51 - 141
2426850	Chlorfenapyr	86.9	85.9	P/P	46 - 111
2426850	Chlorpyrifos Ethyl	99.8	84.6	P/P	52 - 120
2426850	Chlorpyrifos Methyl	107	103	P/P	63 - 119
2426850	Coumaphos	131	151	P/P	10 - 228
2426850	Cyanazine	155	130	P/P	59 - 241
2426850	Cyprodinil	108	101	P/P	47 - 146
2426850	Dechlorane 602	37.2	39.4	F/F	50 - 150
2426850	Dechlorane 603	77.9	74.0	P/P	50 - 150
2426850	Dechlorane Plus	60.8	63.5	P/P	50 - 150
2426850	Demeton	101	98.9	P/P	40 - 136
2426850	Diazinon	119	114	P/P	69 - 132
2426850	Difenoconazole	96.1	117	P/P	57 - 258
2426850	Dimethenamid	86.3	89.8	P/P	54 - 110
2426850	Dimethomorph	270	296	F/F	28 - 210
2426850	Disulfoton	103	98.5	P/P	43 - 133
2426850	Dithiopyr	46.0	50.8	P/P	39 - 116
2426850	EPTC	63.3	51.2	P/P	20 - 78.0
2426850	Ethion	47.3	54.7	P/P	17 - 119
2426850	Ethoprop	107	101	P/P	66 - 120
2426850	Etridiazole	85.4	58.4	P/P	28 - 96.0
2426850	Fenamiphos	104	96.8	P/P	41 - 126
2426850	Fenbuconazole	90.5	98.0	P/P	42 - 169
2426850	Fipronil	105	88.2	P/P	61 - 132
2426850	Fipronil Desulfinyl	112	90.2	P/P	56 - 132
2426850	Fipronil Sulfide	106	95.3	P/P	48 - 119
2426850	Fipronil Sulfone	88.1	84.2	P/P	42 - 131
2426850	Fluazifop-P-butyl	113	97.5	P/P	53 - 131
2426850	Fludioxonil	77.2	76.1	P/P	56 - 127
2426850	Flumioxazin	55.3	87.0	P/P	19 - 300
2426850	Flutolanil	54.5	57.4	P/P	41 - 127
2426850	Fluxapyroxad	72.9	86.4	P/P	42 - 172
2426850	Fonofos	99.7	95.9	P/P	59 - 113
2426850	Hexabromobenzene	111	112	P/P	50 - 150
2426850	Hexazinone	102	102	P/P	66 - 122
2426850	Imazalil	83.4	91.9	P/P	21 - 283
2426850	Iprodione	76.7	69.2	P/P	43 - 150
2426850	Loratadine	199	205	P/F	23 - 201
2426850	Malathion	85.2	79.8	P/P	58 - 136
2426850	Metalaxyl	100	101	P/P	55 - 120

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426850	Metolachlor	88.3	90.9	P/P	57 - 121
2426850	Metribuzin	95.8	98.8	P/P	58 - 294
2426850	Mevinphos	109	104	P/P	50 - 126
2426850	Molinate	66.0	56.9	P/P	42 - 93.0
2426850	Myclobutanil	92.6	87.6	P/P	55 - 125
2426850	Naled	49.1	58.0	P/P	18 - 200
2426850	Napropamide	73.1	72.7	P/P	39 - 110
2426850	Norflurazon	109	97.3	P/P	48 - 128
2426850	Octinoxate	114	104	P/P	21 - 159
2426850	Oxadiazon	75.5	73.6	P/P	43 - 112
2426850	Oxybenzone	127	130	P/P	41 - 142
2426850	Oxyfluorfen	95.6	96.1	P/P	64 - 153
2426850	Parathion Ethyl	92.3	85.2	P/P	69 - 114
2426850	Parathion Methyl	127	123	P/P	79 - 139
2426850	PBB-153	103	112	P/P	50 - 150
2426850	PBDE-47	82.9	83.1	P/P	27 - 144
2426850	PBDE-99	78.8	83.3	P/P	18 - 150
2426850	Pendimethalin	118	105	P/P	50 - 139
2426850	Pentabromotoluene	98.1	92.0	P/P	50 - 150
2426850	Phenytoin	23.6	23.3	P/P	10 - 146
2426850	Phorate	110	110	P/P	54 - 161
2426850	Prodiamine	65.1	64.9	P/P	30 - 161
2426850	Prometon	85.4	89.6	P/P	45 - 134
2426850	Prometryn	54.5	54.1	P/P	45 - 137
2426850	Pronamide	107	96.8	P/P	65 - 133
2426850	Propanil	91.0	83.7	P/P	49 - 142
2426850	Propargite	48.3	46.7	P/P	10 - 203
2426850	Propiconazole	76.9	79.2	P/P	38 - 146
2426850	Pyraflufen Ethyl	109	106	P/P	34 - 153
2426850	Pyridaben	131	129	P/P	12 - 192
2426850	Pyriproxyfen	77.1	78.1	P/P	33 - 180
2426850	Simazine	73.2	70.6	P/P	51 - 157
2426850	Stiropfos	18.2	19.2	P/P	10 - 128
2426850	Sulfentrazone	91.3	87.4	P/P	53 - 186
2426850	Tebuconazole	51.3	52.5	P/P	10 - 133
2426850	Terbufos	116	101	P/P	65 - 139
2426850	Terbuthylazine	92.7	79.5	P/P	66 - 117
2426850	Tetradecachloro-m-terphenyl	91.6	77.9	P/P	70 - 200
2426850	Thiobencarb	80.4	71.4	P/P	51 - 119
2426850	Tri-o-cresyl Phosphate	112	106	P/P	31 - 144
2426850	Triadimefon	90.6	77.3	P/P	48 - 119
2426850	Tris(1-chloro-2-propyl) phosphate (TCPP)	85.9	86.7	P/P	50 - 150
2426850	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106	83.0	P/P	50 - 150
2426850	Tris(2-chloroethyl) phosphate (TCEP)	111	102	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P433074

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426826	PCB-1016	61.7	57.3	P/P	45 - 107
2426826	PCB-1260	60.2	63.9	P/P	40 - 112
2426849	Aldrin	53.6	51.8	P/P	24 - 81.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P433074

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426849	Alpha-BHC	99.0	94.2	P/P	65 - 110
2426849	Alpha-Chlordane	78.5	75.3	P/P	43 - 119
2426849	Beta-BHC	77.7	65.6	P/P	54 - 165
2426849	Beta-Cyfluthrin	99.0	123	P/P	27 - 165
2426849	Bifenthrin	76.9	84.5	P/P	17 - 117
2426849	Carbophenothion	53.7	65.2	P/P	21 - 108
2426849	Chlorothalonil	116	133	P/P	10 - 255
2426849	Cis-Nonachlor	85.4	76.6	P/P	34 - 98.0
2426849	Cypermethrin	103	120	P/P	25 - 143
2426849	Dacthal	96.5	86.5	P/P	55 - 139
2426849	DDD-p,p'	83.0	76.1	P/P	30 - 109
2426849	DDE-p,p'	78.8	74.9	P/P	35 - 106
2426849	DDT-p,p'	74.3	80.4	P/P	41 - 101
2426849	Delta-BHC	117	115	P/P	58 - 165
2426849	Deltamethrin	154	187	P/P	10 - 194
2426849	Dichlobenil	61.2	64.2	P/P	22 - 114
2426849	Dicofol	82.2	81.4	P/P	17 - 133
2426849	Dieldrin	76.7	74.8	P/P	45 - 129
2426849	Endosulfan I	90.4	81.8	P/P	49 - 104
2426849	Endosulfan II	61.5	68.1	P/P	37 - 117
2426849	Endosulfan Sulfate	67.5	70.8	P/P	38 - 128
2426849	Endrin	77.7	80.7	P/P	35 - 116
2426849	Endrin Aldehyde	57.1	49.3	P/P	19 - 108
2426849	Endrin Ketone	87.1	75.1	P/P	44 - 134
2426849	Esfenvalerate	126	155	P/P	27 - 176
2426849	Ethalfuralin	77.8	71.2	P/P	49 - 100
2426849	Fenpropathrin	107	103	P/P	34 - 117
2426849	Gamma-BHC	100	91.3	P/P	59 - 129
2426849	Gamma-Chlordane	51.6	59.5	P/P	33 - 107
2426849	Heptachlor	73.6	67.6	P/P	37 - 94.0
2426849	Heptachlor Epoxide	86.9	82.8	P/P	38 - 118
2426849	Hexachlorobenzene	65.8	64.7	P/P	35 - 97.0
2426849	Kepone	84.3	80.4	P/P	10 - 221
2426849	Lambda-Cyhalothrin	164	187	P/P	23 - 190
2426849	Methoprene	63.3	81.7	P/P	21 - 109
2426849	Methoxychlor	68.1	75.8	P/P	46 - 118
2426849	MGK-264	66.8	80.7	P/P	39 - 122
2426849	Mirex	75.4	73.0	P/P	25 - 90.0
2426849	Oxychlordane	66.2	64.1	P/P	42 - 100
2426849	Permethrin	86.7	97.5	P/P	33 - 181
2426849	Phenothrin	70.1	87.6	P/P	12 - 125
2426849	Piperonyl Butoxide	67.6	77.0	P/P	10 - 178
2426849	Prallethrin	100	120	P/P	24 - 122
2426849	Tau-Fluvalinate	128	157	P/F	13 - 151
2426849	Tetramethrin	166	169	P/P	16 - 172
2426849	Trans-Nonachlor	47.1	55.1	P/P	39 - 100
2426849	Triclosan Methyl	78.4	62.0	P/P	43 - 110
2426849	Trifluralin	70.5	66.9	P/P	45 - 94.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P433074

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426826	Chlordane	69.7	69.1	P/P	43 - 123
2426826	Toxaphene	84.7	82.5	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P432932

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426070	Acesulfame K	109	118	P/P	40 - 150
2426070	AMPA	61.9	66.9	P/P	40 - 150
2426070	Endothall	128	127	P/P	40 - 150
2426070	Glufosinate	82.2	77.1	P/P	40 - 150
2426070	Glyphosate	116	111	P/P	40 - 150
2426070	Sucralose	104	94.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P433066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426540	2,4-D	93.6	91.2	P/P	40 - 150
2426540	2,4,5-T	104	90.1	P/P	40 - 150
2426540	Acetaminophen	89.1	84.9	P/P	30 - 150
2426540	Acetamiprid	59.0	40.7	P/P	40 - 150
2426540	Afidopyropen	49.2	36.7	P/P	30 - 150
2426540	Bentazon	153	157	F/F	30 - 150
2426540	Benzovindiflupyr	79.5	78.6	P/P	40 - 150
2426540	Carbamazepine	56.5	56.5	P/P	40 - 150
2426540	Clothianidin	92.3	94.4	P/P	40 - 150
2426540	Dinotefuran	84.5	81.0	P/P	40 - 150
2426540	Diuron	32.0	24.8	F/F	40 - 150
2426540	Fenuron	71.4	61.6	P/P	40 - 150
2426540	Fluridone	91.1	84.2	P/P	40 - 150
2426540	Hydrocodone	66.6	65.9	P/P	40 - 150
2426540	Ibuprofen	84.5	75.5	P/P	40 - 150
2426540	Imazapyr	107	99.5	P/P	40 - 150
2426540	Imidacloprid	121	117	P/P	40 - 150
2426540	Linuron	61.3	61.0	P/P	40 - 150
2426540	Mandestrobin	87.2	82.0	P/P	40 - 150
2426540	MCPP	115	108	P/P	40 - 150
2426540	Naproxen	89.1	86.8	P/P	40 - 150
2426540	Primidone	89.7	83.2	P/P	40 - 150
2426540	Pyraclostrobin	83.8	83.4	P/P	40 - 150
2426540	Silvex	95.8	96.6	P/P	40 - 150
2426540	Thiamethoxam	81.0	80.3	P/P	40 - 150
2426540	Tolfenpyrad	59.7	58.5	P/P	30 - 150
2426540	Triclopyr	89.1	90.4	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P433156

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426847	3-Hydroxycarbofuran	57.5	54.1	P/P	40 - 150
2426847	Aldicarb	39.1	41.4	P/P	30 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P433156

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426847	Aldicarb Sulfone	59.8	63.5	P/P	40 - 150
2426847	Aldicarb Sulfoxide	27.1	25.1	F/F	40 - 150
2426847	Carbaryl	41.8	38.3	P/F	40 - 150
2426847	Carbofuran	35.9	39.7	F/F	40 - 150
2426847	Methiocarb	32.8	32.7	F/F	40 - 150
2426847	Methomyl	60.3	51.3	P/P	40 - 150
2426847	Oxamyl	63.3	57.5	P/P	40 - 150
2426847	Propoxur	34.3	36.6	F/F	40 - 150

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P432954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426850	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	9.33	Spike	P	0 - 37
2426850	Acetochlor	10.9	Spike	P	0 - 28
2426850	Alachlor	12.8	Spike	P	0 - 30
2426850	Ametryn	16.3	Spike	P	0 - 32
2426850	Atrazine	6.75	Spike	P	0 - 41
2426850	Atrazine Desethyl	25.1	Spike	P	0 - 36
2426850	Avobenzone	10.1	Spike	P	0 - 36
2426850	Azinphos Methyl	5.86	Spike	P	0 - 75
2426850	Azoxystrobin	14.2	Spike	P	0 - 39
2426850	Bromacil	19.7	Spike	P	0 - 33
2426850	Butylate	8.61	Spike	P	0 - 44
2426850	Caffeine	2.61	Spike	P	0 - 74
2426850	Carbophenothion	3.71	Spike	P	0 - 25
2426850	Carfentrazone Ethyl	4.57	Spike	P	0 - 27
2426850	Chlorfenapyr	1.22	Spike	P	0 - 24
2426850	Chlorpyrifos Ethyl	16.5	Spike	P	0 - 26
2426850	Chlorpyrifos Methyl	3.84	Spike	P	0 - 26
2426850	Coumaphos	14.3	Spike	P	0 - 28
2426850	Cyanazine	17.8	Spike	P	0 - 48
2426850	Cyprodinil	6.60	Spike	P	0 - 29
2426850	Dechlorane 602	5.66	Spike	P	0 - 30
2426850	Dechlorane 603	5.09	Spike	P	0 - 30
2426850	Dechlorane Plus	4.34	Spike	P	0 - 30
2426850	Demeton	2.20	Spike	P	0 - 33
2426850	Diazinon	3.89	Spike	P	0 - 29
2426850	Difenoconazole	19.4	Spike	P	0 - 34
2426850	Dimethenamid	3.99	Spike	P	0 - 39
2426850	Dimethomorph	9.11	Spike	P	0 - 51
2426850	Disulfoton	4.45	Spike	P	0 - 30
2426850	Dithiopyr	9.90	Spike	P	0 - 26
2426850	EPTC	21.2	Spike	P	0 - 43
2426850	Ethion	14.6	Spike	P	0 - 79
2426850	Ethoprop	6.29	Spike	P	0 - 29
2426850	Etridiazole	37.5	Spike	F	0 - 33
2426850	Fenamiphos	6.97	Spike	P	0 - 40
2426850	Fenbuconazole	7.99	Spike	P	0 - 74
2426850	Fipronil	16.2	Spike	P	0 - 29
2426850	Fipronil Desulfinyl	19.9	Spike	P	0 - 32
2426850	Fipronil Sulfide	9.46	Spike	P	0 - 30
2426850	Fipronil Sulfone	3.79	Spike	P	0 - 33
2426850	Fluazifop-P-butyl	14.9	Spike	P	0 - 38
2426850	Fludioxonil	1.54	Spike	P	0 - 29
2426850	Flumioxazin	44.6	Spike	P	0 - 51
2426850	Flutolanil	5.01	Spike	P	0 - 25
2426850	Fluxapyroxad	16.9	Spike	P	0 - 45
2426850	Fonofos	3.90	Spike	P	0 - 27
2426850	Hexabromobenzene	0.315	Spike	P	0 - 30
2426850	Hexazinone	0.743	Spike	P	0 - 30
2426850	Imazalil	9.63	Spike	P	0 - 100
2426850	Iprodione	10.2	Spike	P	0 - 33
2426850	Loratadine	3.20	Spike	P	0 - 56

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P432954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426850	Malathion	6.53	Spike	P	0 - 37
2426850	Metalaxyl	0.945	Spike	P	0 - 40
2426850	Metolachlor	2.85	Spike	P	0 - 29
2426850	Metribuzin	3.07	Spike	P	0 - 45
2426850	Mevinphos	4.36	Spike	P	0 - 29
2426850	Molinate	14.8	Spike	P	0 - 33
2426850	Myclobutanil	5.46	Spike	P	0 - 26
2426850	Naled	16.8	Spike	P	0 - 37
2426850	Napropamide	0.460	Spike	P	0 - 44
2426850	Norflurazon	11.5	Spike	P	0 - 30
2426850	Octinoxate	8.55	Spike	P	0 - 45
2426850	Oxadiazon	2.61	Spike	P	0 - 28
2426850	Oxybenzone	2.29	Spike	P	0 - 46
2426850	Oxyfluorfen	0.543	Spike	P	0 - 28
2426850	Parathion Ethyl	8.00	Spike	P	0 - 31
2426850	Parathion Methyl	3.81	Spike	P	0 - 29
2426850	PBB-153	8.25	Spike	P	0 - 30
2426850	PBDE-47	0.155	Spike	P	0 - 36
2426850	PBDE-99	5.64	Spike	P	0 - 40
2426850	Pendimethalin	11.5	Spike	P	0 - 33
2426850	Pentabromotoluene	6.48	Spike	P	0 - 30
2426850	Phenytol	1.07	Spike	P	0 - 100
2426850	Phorate	0.382	Spike	P	0 - 36
2426850	Prodiamine	0.353	Spike	P	0 - 71
2426850	Prometon	4.75	Spike	P	0 - 36
2426850	Prometryn	0.754	Spike	P	0 - 28
2426850	Pronamide	10.4	Spike	P	0 - 24
2426850	Propanil	8.35	Spike	P	0 - 28
2426850	Propargite	3.34	Spike	P	0 - 43
2426850	Propiconazole	2.98	Spike	P	0 - 33
2426850	Pyraflufen Ethyl	3.58	Spike	P	0 - 29
2426850	Pyridaben	1.52	Spike	P	0 - 30
2426850	Pyriproxyfen	1.22	Spike	P	0 - 79
2426850	Simazine	3.53	Spike	P	0 - 29
2426850	Stirophos	5.63	Spike	P	0 - 61
2426850	Sulfentrazone	4.32	Spike	P	0 - 33
2426850	Tebuconazole	2.29	Spike	P	0 - 69
2426850	Terbufos	13.9	Spike	P	0 - 29
2426850	Terbuthylazine	15.4	Spike	P	0 - 32
2426850	Tetradecachloro-m-terphenyl	16.2	Spike	P	0 - 30
2426850	Thiobencarb	11.9	Spike	P	0 - 26
2426850	Tri-o-cresyl Phosphate	5.42	Spike	P	0 - 33
2426850	Triadimefon	15.9	Spike	P	0 - 28
2426850	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.681	Spike	P	0 - 30
2426850	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	23.8	Spike	P	0 - 30
2426850	Tris(2-chloroethyl) phosphate (TCEP)	8.64	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P433074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426826	PCB-1016	7.46	Spike	P	0 - 25
2426826	PCB-1260	6.01	Spike	P	0 - 30
2426849	Aldrin	3.42	Spike	P	0 - 41
2426849	Alpha-BHC	4.94	Spike	P	0 - 25
2426849	Alpha-Chlordane	4.13	Spike	P	0 - 32
2426849	Beta-BHC	15.0	Spike	P	0 - 33
2426849	Beta-Cyfluthrin	21.6	Spike	P	0 - 43
2426849	Bifenthrin	9.52	Spike	P	0 - 52
2426849	Carbophenothion	19.2	Spike	P	0 - 49
2426849	Chlorothalonil	13.6	Spike	P	0 - 82
2426849	Cis-Nonachlor	10.9	Spike	P	0 - 33
2426849	Cypermethrin	15.5	Spike	P	0 - 51
2426849	Dacthal	10.9	Spike	P	0 - 27
2426849	DDD-p,p'	8.71	Spike	P	0 - 39
2426849	DDE-p,p'	5.07	Spike	P	0 - 31
2426849	DDT-p,p'	7.86	Spike	P	0 - 29
2426849	Delta-BHC	2.31	Spike	P	0 - 35
2426849	Deltamethrin	19.6	Spike	P	0 - 100
2426849	Dichlobenil	4.80	Spike	P	0 - 40
2426849	Dicofol	0.860	Spike	P	0 - 37
2426849	Dieldrin	2.54	Spike	P	0 - 27
2426849	Endosulfan I	9.93	Spike	P	0 - 23
2426849	Endosulfan II	10.1	Spike	P	0 - 34
2426849	Endosulfan Sulfate	4.76	Spike	P	0 - 36
2426849	Endrin	3.80	Spike	P	0 - 45
2426849	Endrin Aldehyde	14.7	Spike	P	0 - 76
2426849	Endrin Ketone	14.8	Spike	P	0 - 43
2426849	Esfenvalerate	20.6	Spike	P	0 - 51
2426849	Ethalfuralin	8.80	Spike	P	0 - 22
2426849	Fenpropathrin	3.93	Spike	P	0 - 49
2426849	Gamma-BHC	9.43	Spike	P	0 - 28
2426849	Gamma-Chlordane	14.2	Spike	P	0 - 40
2426849	Heptachlor	8.51	Spike	P	0 - 29
2426849	Heptachlor Epoxide	4.87	Spike	P	0 - 33
2426849	Hexachlorobenzene	1.74	Spike	P	0 - 36
2426849	Kepone	4.69	Spike	P	0 - 85
2426849	Lambda-Cyhalothrin	13.2	Spike	P	0 - 55
2426849	Methoprene	25.4	Spike	P	0 - 53
2426849	Methoxychlor	10.8	Spike	P	0 - 50
2426849	MGK-264	18.8	Spike	P	0 - 43
2426849	Mirex	3.16	Spike	P	0 - 40
2426849	Oxychlordane	3.31	Spike	P	0 - 31
2426849	Permethrin	11.7	Spike	P	0 - 50
2426849	Phenothrin	22.2	Spike	P	0 - 58
2426849	Piperonyl Butoxide	12.9	Spike	P	0 - 100
2426849	Prallethrin	17.7	Spike	P	0 - 39
2426849	Tau-Fluvalinate	20.0	Spike	P	0 - 54
2426849	Tetramethrin	2.09	Spike	P	0 - 51
2426849	Trans-Nonachlor	15.6	Spike	P	0 - 39
2426849	Triclosan Methyl	23.3	Spike	P	0 - 31
2426849	Trifluralin	5.24	Spike	P	0 - 22

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P433074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426826	Chlordane	0.872	Spike	P	0 - 28
2426826	Toxaphene	2.54	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P432932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426070	Acesulfame K	7.96	Spike	P	0 - 30
2426070	AMPA	5.89	Spike	P	0 - 30
2426070	Endothall	0.873	Spike	P	0 - 30
2426070	Glufosinate	6.34	Spike	P	0 - 30
2426070	Glyphosate	4.09	Spike	P	0 - 30
2426070	Sucralose	9.11	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P433066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426540	2,4-D	2.60	Spike	P	0 - 30
2426540	2,4,5-T	14.3	Spike	P	0 - 30
2426540	Acetaminophen	4.80	Spike	P	0 - 30
2426540	Acetamiprid	36.9	Spike	F	0 - 30
2426540	Afidopyropen	29.1	Spike	P	0 - 30
2426540	Bentazon	2.84	Spike	P	0 - 30
2426540	Benzovindiflupyr	1.20	Spike	P	0 - 30
2426540	Carbamazepine	0.00991	Spike	P	0 - 30
2426540	Clothianidin	2.22	Spike	P	0 - 30
2426540	Dinotefuran	4.28	Spike	P	0 - 30
2426540	Diuron	25.7	Spike	P	0 - 30
2426540	Fenuron	14.8	Spike	P	0 - 30
2426540	Fluridone	7.87	Spike	P	0 - 30
2426540	Hydrocodone	1.00	Spike	P	0 - 30
2426540	Ibuprofen	11.3	Spike	P	0 - 30
2426540	Imazapyr	6.94	Spike	P	0 - 30
2426540	Imidacloprid	3.86	Spike	P	0 - 30
2426540	Linuron	0.422	Spike	P	0 - 30
2426540	Mandestrobin	6.05	Spike	P	0 - 30
2426540	MCPP	6.47	Spike	P	0 - 30
2426540	Naproxen	2.64	Spike	P	0 - 30
2426540	Primidone	7.53	Spike	P	0 - 30
2426540	Pyraclostrobin	0.378	Spike	P	0 - 30
2426540	Silvex	0.857	Spike	P	0 - 30
2426540	Thiamethoxam	0.849	Spike	P	0 - 30
2426540	Tolfenpyrad	1.96	Spike	P	0 - 30
2426540	Triclopyr	1.47	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P433156

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426847	3-Hydroxycarbofuran	6.10	Spike	P	0 - 30
2426847	Aldicarb	5.57	Spike	P	0 - 30
2426847	Aldicarb Sulfone	5.98	Spike	P	0 - 30
2426847	Aldicarb Sulfoxide	7.86	Spike	P	0 - 30
2426847	Carbaryl	7.56	Spike	P	0 - 30
2426847	Carbofuran	9.96	Spike	P	0 - 30
2426847	Methiocarb	0.263	Spike	P	0 - 30
2426847	Methomyl	16.0	Spike	P	0 - 30
2426847	Oxamyl	9.61	Spike	P	0 - 30
2426847	Propoxur	6.33	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2426817
Field Sample ID: G2CE0271

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	38.6	P	30 - 160

Lab Sample ID: 2426818
Field Sample ID: G2CE0271

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	36.9	P	30 - 160
EPA 8321B	Diuron-d6	33.3	P	30 - 160
EPA 8321B	Endothall-d6	124	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.9	P	30 - 160
EPA 8321B	Primidone-d5	55.2	P	30 - 160
EPA 8321B	Sucralose-d6	82.3	P	30 - 160

Lab Sample ID: 2426819
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	41.6	P	30 - 160
EPA 8321B	Diuron-d6	30.3	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.2	P	30 - 160
EPA 8321B	Primidone-d5	64.2	P	30 - 160
EPA 8321B	Sucralose-d6	82.0	P	30 - 160

Lab Sample ID: 2426826
Field Sample ID: G2CE0271

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	59.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	61.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	46.9	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	72.3	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	53.8	P	28 - 102
EPA 8276	PCNB	84.6	P	49 - 115

Lab Sample ID: 2426827
Field Sample ID: G2CE0271

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	80.1	P	20 - 200
EPA 8270E	Simazine-d10	86.0	P	62 - 142
EPA 8270E	Terbufos-d10	95.9	P	58 - 132
EPA 8270E	Terphenyl-d14	118	P	52 - 137

Quality Assurance Report Surrogates

Lab Sample ID: 2426828
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	61.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	68.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	53.6	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	65.0	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	56.6	P	28 - 102
EPA 8276	PCNB	78.1	P	49 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120722
Included Lab Sample IDs: 2426827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	87.2		P	80 - 120
Avobenzene	95.6		P	80 - 120
Dechlorane 602	96.2		P	80 - 120
Dechlorane 603	90.6		P	80 - 120
Dechlorane Plus	84.8		P	80 - 120
Hexabromobenzene	88.6		P	80 - 120
Octinoxate	91.5		P	80 - 120
Oxybenzone	91.6		P	80 - 120
PBB-153	87.2		P	80 - 120
PBDE-47	88.5		P	80 - 120
PBDE-99	86.8		P	80 - 120
Pentabromotoluene	93.3		P	80 - 120
Tetradecachloro-m-terphenyl	84.8		P	80 - 120
Tri-o-cresyl Phosphate	93.6		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	93.5		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	88.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.9		P	80 - 120

Reference Method: EPA 8321B
Run ID: A120726
Included Lab Sample IDs: 2426818, 2426819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	106	116	P/P	60 - 160
Acesulfame K	96.2	106	P/P	60 - 160
Sucralose	87.3	79.9	P/P	60 - 160
Sucralose	87.9	87.3	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A120727
Included Lab Sample IDs: 2426818, 2426819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.6	102	P/P	60 - 160
Endothall	86.8	88.4	P/P	60 - 160
Glufosinate	91.5	94.7	P/P	60 - 160
Glyphosate	99.0	103	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A120735
Included Lab Sample IDs: 2426818, 2426819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.3	83.1	P/P	50 - 150
2,4,5-T	105	98.2	P/P	50 - 150
Acetaminophen	89.5	90.2	P/P	60 - 160
Acetamiprid	102	105	P/P	50 - 150
Afidopyropen	98.0	89.1	P/P	50 - 150
Bentazon	126	112	P/P	50 - 160
Benzovindiflupyr	112	113	P/P	50 - 150
Carbamazepine	103	103	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A120735

Included Lab Sample IDs: 2426818, 2426819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Clothianidin	117	104	P/P	60 - 150
Dinotefuran	108	105	P/P	50 - 150
Diuron	97.2	91.6	P/P	60 - 160
Fenuron	107	103	P/P	60 - 150
Fluridone	109	104	P/P	60 - 160
Hydrocodone	118	113	P/P	60 - 150
Ibuprofen	113	91.5	P/P	50 - 160
Imazapyr	89.9	90.7	P/P	50 - 150
Imidacloprid	96.2	94.1	P/P	60 - 150
Linuron	130	94.9	P/P	60 - 150
Mandestrobin	104	101	P/P	50 - 150
MCPP	105	92.3	P/P	50 - 150
Naproxen	133	145	P/P	50 - 160
Primidone	113	103	P/P	60 - 150
Pyraclostrobin	113	113	P/P	60 - 150
Silvex	87.2	97.2	P/P	50 - 150
Thiamethoxam	108	115	P/P	50 - 150
Tolfenpyrad	94.3	106	P/P	60 - 150
Triclopyr	91.8	92.6	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A120758

Included Lab Sample IDs: 2426818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	150	153	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A120777

Included Lab Sample IDs: 2426817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	108	104	P/P	60 - 150
Aldicarb	114	99.6	P/P	60 - 150
Aldicarb Sulfone	102	99.5	P/P	50 - 150
Aldicarb Sulfoxide	107	99.6	P/P	50 - 150
Carbaryl	125	116	P/P	60 - 150
Carbofuran	107	101	P/P	50 - 150
Methiocarb	96.3	84.5	P/P	50 - 150
Methomyl	106	103	P/P	50 - 150
Oxamyl	106	102	P/P	50 - 150
Propoxur	102	95.5	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A120808

Included Lab Sample IDs: 2426826, 2426828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.0		P	80 - 120
Alpha-BHC	98.5		P	80 - 120
Alpha-Chlordane	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A120808

Included Lab Sample IDs: 2426826, 2426828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	103		P	80 - 120
Beta-Cyfluthrin	93.2		P	80 - 120
Bifenthrin	95.3		P	80 - 120
Carbophenothion	92.9		P	80 - 120
Chlorothalonil	95.4		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	104		P	80 - 120
Dacthal	106		P	80 - 120
DDD-p,p'	111		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	96.7		P	80 - 120
Delta-BHC	101		P	80 - 120
Deltamethrin	98.5		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	90.9		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	98.5		P	80 - 120
Endosulfan II	95.0		P	80 - 120
Endosulfan Sulfate	111		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	94.3		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	93.7		P	80 - 120
Ethalfuralin	102		P	80 - 120
Fenpropathrin	101		P	80 - 120
Gamma-BHC	105		P	80 - 120
Gamma-Chlordane	96.5		P	80 - 120
Heptachlor	99.7		P	80 - 120
Heptachlor Epoxide	98.3		P	80 - 120
Hexachlorobenzene	105		P	80 - 120
Kepone	58.1*		F	80 - 120
Lambda-Cyhalothrin	98.0		P	80 - 120
Methoprene	97.1		P	80 - 120
Methoxychlor	92.4		P	80 - 120
MGK-264	94.9		P	80 - 120
Mirex	98.2		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	97.8		P	80 - 120
Phenothrin	94.1		P	80 - 120
Piperonyl Butoxide	111		P	80 - 120
Prallethrin	94.4		P	80 - 120
Tau-Fluvalinate	93.9		P	80 - 120
Tetramethrin	100		P	80 - 120
Trans-Nonachlor	93.2		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	98.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A120833

Included Lab Sample IDs: 2426826, 2426828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Chlordane	101		P	80 - 120
Toxaphene	102		P	80 - 120
Toxaphene	94.7		P	80 - 120

Reference Method: EPA 8270E

Run ID: A120840

Included Lab Sample IDs: 2426826, 2426828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	93.7		P	80 - 120
PCB-1260	95.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A120931

Included Lab Sample IDs: 2426827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	86.6		P	80 - 120
Alachlor	90.9		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	94.9		P	80 - 120
Atrazine Desethyl	93.6		P	80 - 120
Azinphos Methyl	93.0		P	80 - 120
Azoxystrobin	96.9		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	94.1		P	80 - 120
Caffeine	97.0		P	80 - 120
Carbophenothion	103		P	80 - 120
Carfentrazone Ethyl	95.1		P	80 - 120
Chlorfenapyr	81.2		P	80 - 120
Chlorpyrifos Ethyl	90.4		P	80 - 120
Chlorpyrifos Methyl	93.6		P	80 - 120
Coumaphos	96.3		P	80 - 120
Cyanazine	89.8		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	99.5		P	80 - 120
Diazinon	97.0		P	80 - 120
Difenoconazole	90.5		P	80 - 120
Dimethenamid	94.4		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	99.5		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	104		P	80 - 120
Ethoprop	97.1		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	89.8		P	80 - 120
Fenbuconazole	82.2		P	80 - 120
Fipronil	87.5		P	80 - 120
Fipronil Desulfinyl	95.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120931
Included Lab Sample IDs: 2426827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Sulfide	95.6		P	80 - 120
Fipronil Sulfone	93.2		P	80 - 120
Fluazifop-P-butyl	89.9		P	80 - 120
Fludioxonil	95.0		P	80 - 120
Flumioxazin	93.7		P	80 - 120
Flutolanil	98.2		P	80 - 120
Fluxapyroxad	99.0		P	80 - 120
Fonofos	96.1		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	99.1		P	80 - 120
Iprodione	76.1*		F	80 - 120
Loratadine	85.6		P	80 - 120
Malathion	82.3		P	80 - 120
Metalaxyl	90.5		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	89.7		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	84.5		P	80 - 120
Myclobutanil	91.1		P	80 - 120
Naled	87.4		P	80 - 120
Napropamide	97.0		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	95.3		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	84.2		P	80 - 120
Pendimethalin	106		P	80 - 120
Phenytoin	102		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	113		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	100		P	80 - 120
Propargite	95.8		P	80 - 120
Propiconazole	87.8		P	80 - 120
Pyraflufen Ethyl	102		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	101		P	80 - 120
Simazine	80.0		P	80 - 120
Stirophos	80.1		P	80 - 120
Sulfentrazone	96.0		P	80 - 120
Tebuconazole	100		P	80 - 120
Terbufos	101		P	80 - 120
Terbutylazine	89.3		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	98.0		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 SMP	MS
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	62.1	82.8 90.9			9.33
	Acetochlor	90.0	94.8 85.0			10.9
	Alachlor	78.9	77.9 68.5			12.8
	Aldrin	57.0	53.6 51.8			3.42
	Alpha-BHC	86.8	99.0 94.2			4.94
	Alpha-Chlordane	82.5	78.5 75.3			4.13
	Ametryn	113	132 112			16.3
	Atrazine	92.5				6.75
	Atrazine Desethyl	83.1	95.7 74.4			25.1
	Avobenzone	113	109 98.1			10.1
	Azinphos Methyl	70.4	103 109			5.86
	Azoxystrobin	86.3	95.2 110			14.2
	Beta-BHC	83.3	77.7 65.6			15.0
	Beta-Cyfluthrin	81.5	99.0 123			21.6
	Bifenthrin	53.3	76.9 84.5			9.52
	Bromacil	91.8	104 85.8			19.7
	Butylate	71.4	66.8 61.3			8.61
	Caffeine	93.3	101 104			2.61
	Carbophenothion	99.3	102 106			3.71
	Carbophenothion	48.9	53.7 65.2			19.2
	Carfentrazone Ethyl	104	115 110			4.57
	Chlorfenapyr	81.5	86.9 85.9			1.22
	Chlorothalonil	90.6	116 133			13.6
	Chlorpyrifos Ethyl	100	99.8 84.6			16.5
	Chlorpyrifos Methyl	95.6	107 103			3.84
	Cis-Nonachlor	74.6	85.4 76.6			10.9
	Coumaphos	95.3	131 151			14.3
	Cyanazine	154	155 130			17.8
	Cypermethrin	94.8	103 120			15.5
	Cyprodinil	106	108 101			6.60
	Dacthal	85.8	96.5 86.5			10.9
	DDD-p,p'	73.8	83.0 76.1			8.71
	DDE-p,p'	77.5	78.8 74.9			5.07
	DDT-p,p'	70.0	74.3 80.4			7.86
	Dechlorane 602	28.0	37.2 39.4			5.66
	Dechlorane 603	86.9	77.9 74.0			5.09
	Dechlorane Plus	65.3	60.8 63.5			4.34
	Delta-BHC	96.3	117 115			2.31
	Deltamethrin	128	154 187			19.6
	Demeton	104	101 98.9			2.20
	Diazinon	109	119 114			3.89
	Dichlobenil	74.9	61.2 64.2			4.80
	Dicofol	76.8	82.2 81.4			0.860
	Dieldrin	79.2	76.7 74.8			2.54
	Difenoconazole	34.2	96.1 117			19.4
	Dimethenamid	79.8	86.3 89.8			3.99
	Dimethomorph	138	270 296			9.11
	Disulfoton	103	103 98.5			4.45
	Dithiopyr	97.3	46.0 50.8			9.90
	Endosulfan I	89.0	90.4 81.8			9.93
	Endosulfan II	60.6	61.5 68.1			10.1
	Endosulfan Sulfate	77.2	67.5 70.8			4.76

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
EPA 8270E	Endrin	80.1	77.7	80.7		3.80
	Endrin Aldehyde	69.6	57.1	49.3		14.7
	Endrin Ketone	82.6	87.1	75.1		14.8
	EPTC	70.3	63.3	51.2		21.2
	Esfenvalerate	88.4	126	155		20.6
	Ethalfuralin	75.8	77.8	71.2		8.80
	Ethion	34.6	47.3	54.7		14.6
	Ethoprop	105	107	101		6.29
	Etridiazole	81.7	85.4	58.4		37.5
	Fenamiphos	105	104	96.8		6.97
	Fenbuconazole	44.8	90.5	98.0		7.99
	Fenpropathrin	85.0	107	103		3.93
	Fipronil	106	105	88.2		16.2
	Fipronil Desulfinyl	98.3	112	90.2		19.9
	Fipronil Sulfide	97.8	106	95.3		9.46
	Fipronil Sulfone	93.2	88.1	84.2		3.79
	Fluazifop-P-butyl	87.1	113	97.5		14.9
	Fludioxonil	69.3	77.2	76.1		1.54
	Flumioxazin	18.1	55.3	87.0		44.6
	Flutolanil	81.7	54.5	57.4		5.01
	Fluxapyroxad	53.8	72.9	86.4		16.9
	Fonofos	92.7	99.7	95.9		3.90
	Gamma-BHC	83.6	100	91.3		9.43
	Gamma-Chlordane	56.3	51.6	59.5		14.2
	Heptachlor	71.1	73.6	67.6		8.51
	Heptachlor Epoxide	81.9	86.9	82.8		4.87
	Hexabromobenzene	88.3	111	112		0.315
	Hexachlorobenzene	67.7	65.8	64.7		1.74
	Hexazinone	85.4	102	102		0.743
	Imazalil	96.4	83.4	91.9		9.63
	Iprodione	62.8	76.7	69.2		10.2
	Kepone	79.9	84.3	80.4		4.69
	Lambda-Cyhalothrin	64.8	164	187		13.2
	Loratadine	128	199	205		3.20
	Malathion	85.9	85.2	79.8		6.53
	Metalaxyl	103	100	101		0.945
	Methoprene	48.7	63.3	81.7		25.4
	Methoxychlor	77.7	68.1	75.8		10.8
	Metolachlor	84.4	88.3	90.9		2.85
	Metribuzin	99.9	95.8	98.8		3.07
	Mevinphos	115	109	104		4.36
	MGK-264	63.0	66.8	80.7		18.8
	Mirex	65.4	75.4	73.0		3.16
	Molinate	61.5	66.0	56.9		14.8
	Myclobutanil	89.4	92.6	87.6		5.46
	Naled	43.9	49.1	58.0		16.8
	Napropamide	65.6	73.1	72.7		0.460
	Norflurazon	98.6	109	97.3		11.5
	Octinoxate	101	114	104		8.55
	Oxadiazon	80.9	75.5	73.6		2.61
	Oxybenzone	110	127	130		2.29
	Oxychlordane	73.8	66.2	64.1		3.31
	Oxyfluorfen	91.4	95.6	96.1		0.543
	Parathion Ethyl	109	92.3	85.2		8.00

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Parathion Methyl	116	127	123			3.81
	PBB-153	61.9	103	112			8.25
	PBDE-47	52.7	82.9	83.1			0.155
	PBDE-99	41.1	78.8	83.3			5.64
	PCB-1016	66.9	61.7	57.3			7.46
	PCB-1260	70.1	60.2	63.9			6.01
	Pendimethalin	118	118	105			11.5
	Pentabromotoluene	86.1	98.1	92.0			6.48
	Permethrin	73.5	86.7	97.5			11.7
	Phenothrin	57.8	70.1	87.6			22.2
	Phenytain	24.0	23.6	23.3			1.07
	Phorate	99.9	110	110			0.382
	Piperonyl Butoxide	66.0	67.6	77.0			12.9
	Prallethrin	69.7	100	120			17.7
	Prodiamine	48.5	65.1	64.9			0.353
	Prometon	110	85.4	89.6			4.75
	Prometryn	127	54.5	54.1			0.754
	Pronamide	108	107	96.8			10.4
	Propanil	86.9	91.0	83.7			8.35
	Propargite	34.7	48.3	46.7			3.34
	Propiconazole	66.5	76.9	79.2			2.98
	Pyraflufen Ethyl	95.4	109	106			3.58
	Pyridaben	88.7	131	129			1.52
	Pyriproxyfen	32.5	77.1	78.1			1.22
	Simazine	74.5	73.2	70.6			3.53
	Stirophos	26.7	18.2	19.2			5.63
	Sulfentrazone	68.9	91.3	87.4			4.32
	Tau-Fluvalinate	88.3	128	157			20.0
	Tebuconazole	34.3	51.3	52.5			2.29
	Terbufos	111	116	101			13.9
	Terbutylazine	86.3	92.7	79.5			15.4
	Tetradecachloro-m-terphenyl	172	91.6	77.9			16.2
	Tetramethrin	116	166	169			2.09
	Thiobencarb	83.0	80.4	71.4			11.9
	Trans-Nonachlor	54.1	47.1	55.1			15.6
	Tri-o-cresyl Phosphate	101	112	106			5.42
	Triadimefon	79.3	90.6	77.3			15.9
	Triclosan Methyl	82.4	78.4	62.0			23.3
	Trifluralin	72.1	70.5	66.9			5.24
	Tris(1-chloro-2-propyl) phosphate (TCPP)	105	85.9	86.7			0.681
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.5	106	83.0			23.8
	Tris(2-chloroethyl) phosphate (TCEP)	103	111	102			8.64
EPA 8276	Chlordane	78.7	69.7	69.1			0.872
	Toxaphene	89.4	84.7	82.5			2.54
EPA 8321B	2,4-D	85.2	93.6	91.2			2.60
	2,4,5-T	79.8	104	90.1			14.3
	3-Hydroxycarbofuran	76.4	57.5	54.1			6.10
	Acesulfame K	94.9	109	118			7.96
	Acetaminophen	83.3	89.1	84.9			4.80
	Acetamiprid	80.9	59.0	40.7			36.9
	Afidopyropen	54.4	49.2	36.7			29.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Aldicarb	59.9	39.1	41.4			5.57
	Aldicarb Sulfone	78.7	59.8	63.5			5.98
	Aldicarb Sulfoxide	75.1	27.1	25.1			7.86
	AMPA	57.2	61.9	66.9			5.89
	Bentazon	137	153	157			2.84
	Benzovindiflupyr	79.0	79.5	78.6			1.20
	Carbamazepine	73.7	56.5	56.5			0.0099
	Carbaryl	62.3	41.8	38.3			7.56
	Carbofuran	61.7	35.9	39.7			9.96
	Clothianidin	97.5	92.3	94.4			2.22
	Dinotefuran	114	84.5	81.0			4.28
	Diuron	60.5	32.0	24.8			25.7
	Endothall	91.1	128	127			0.873
	Fenuron	103	71.4	61.6			14.8
	Fluridone	96.6	91.1	84.2			7.87
	Glufosinate	104	82.2	77.1			6.34
	Glyphosate	110	116	111			4.09
	Hydrocodone	96.8	66.6	65.9			1.00
	Ibuprofen	70.8	84.5	75.5			11.3
	Imazapyr	84.6	107	99.5			6.94
	Imidacloprid	86.4	121	117			3.86
	Linuron	66.0	61.3	61.0			0.422
	Mandestrobin	89.7	87.2	82.0			6.05
	MCPP	85.6	115	108			6.47
	Methiocarb	54.8	32.8	32.7			0.263
	Methomyl	77.0	60.3	51.3			16.0
	Naproxen	78.2	89.1	86.8			2.64
	Oxamyl	81.4	63.3	57.5			9.61
	Primidone	91.1	89.7	83.2			7.53
	Propoxur	60.3	34.3	36.6			6.33
	Pyraclostrobin	57.1	83.8	83.4			0.378
	Silvex	85.4	95.8	96.6			0.857
	Sucralose	96.0	104	94.5			9.11
	Thiamethoxam	93.2	81.0	80.3			0.849
	Tolfenpyrad	30.6	59.7	58.5			1.96
	Triclopyr	79.8	89.1	90.4			1.47

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2426827
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2426826, 2426828
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2426827
EPA 8270E	PCBs in water matrices by GC/MS/MS	2426826, 2426828
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2426826, 2426828
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2426817
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2426818, 2426819

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	07/26/2023	07/27/2023 08:00	Fe-Val Siddell	07/28/2023 23:29	Arthur Maknenko	2426827
	07/26/2023	07/27/2023 08:00	Fe-Val Siddell	08/01/2023 18:58	Vandana T. Nagar	2426827
	07/26/2023	07/31/2023 08:30	Rasheda Ghaffari	08/02/2023 21:19	Michael Poppell	2426826
	07/26/2023	07/31/2023 08:30	Rasheda Ghaffari	08/02/2023 21:48	Michael Poppell	2426828
	07/26/2023	07/31/2023 08:30	Rasheda Ghaffari	08/03/2023 22:02	Julie Wi	2426826
	07/26/2023	07/31/2023 08:30	Rasheda Ghaffari	08/04/2023 00:02	Julie Wi	2426828
	07/26/2023	07/31/2023 08:30	Rasheda Ghaffari	08/03/2023 10:21	Arthur Maknenko	2426826
EPA 8276	07/26/2023	07/31/2023 08:30	Rasheda Ghaffari	08/03/2023 18:40	Arthur Maknenko	2426828
EPA 8321B	07/26/2023	07/26/2023 12:30	Hana Lee	07/26/2023 14:16	Tae K Lee	2426818
	07/26/2023	07/26/2023 12:30	Hana Lee	07/26/2023 14:29	Tae K Lee	2426819
	07/26/2023	07/26/2023 12:30	Hana Lee	07/27/2023 12:44	Tae K Lee	2426818
	07/26/2023	07/26/2023 12:30	Hana Lee	07/27/2023 13:12	Tae K Lee	2426819
	07/26/2023	07/27/2023 09:00	Hoor Shaik	07/28/2023 21:29	Juyoung Kim	2426818
	07/26/2023	07/27/2023 09:00	Hoor Shaik	07/28/2023 21:47	Juyoung Kim	2426819
	07/26/2023	07/27/2023 09:00	Hoor Shaik	07/31/2023 17:50	Juyoung Kim	2426818
	07/26/2023	08/01/2023 09:00	Hoor Shaik	08/01/2023 18:12	Juyoung Kim	2426817