

Chemical Analysis Report

NE-DIST-2023-04-25-02

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

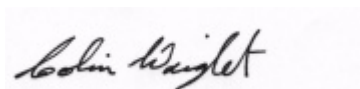
Event Description: **Bull creek make up pest**
Request ID: **RQ-2023-04-24-74**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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Certified by: Colin Wright, Program Administrator

Date Certified: 18-MAY-2023 08:59

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular background.

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: BULL CREEK DITCH DOWNSTREAM OF EAST DITCH **Collection Date/Time: 04/24/2023 11:10**

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2402827	EPA 8270E	Aldrin	0.66	U	ng/L	P428986	
		Alpha-BHC	0.10	U	ng/L	P428986	
		Alpha-Chlordane	0.20	U	ng/L	P428986	
		PCB-1016	2.0	U	ng/L	P428986	
		Beta-BHC	0.10	U	ng/L	P428986	
		PCB-1221	2.0	U	ng/L	P428986	
		Beta-Cyfluthrin	1.3	U	ng/L	P428986	
		PCB-1232	2.0	U	ng/L	P428986	
		Bifenthrin	0.51	U	ng/L	P428986	
		PCB-1242	2.0	U	ng/L	P428986	
		PCB-1248	2.0	U	ng/L	P428986	
		Chlorothalonil	3.7	U	ng/L	P428986	MS
		PCB-1254	2.0	U	ng/L	P428986	
		Cis-Nonachlor	0.20	U	ng/L	P428986	
		PCB-1260	2.0	U	ng/L	P428986	
		Cypermethrin	1.5	U	ng/L	P428986	
		Dacthal	25		ng/L	P428986	
		DDD-p,p'	0.25	U	ng/L	P428986	
		DDE-p,p'	0.20	U	ng/L	P428986	
		DDT-p,p'	0.25	U	ng/L	P428986	
		Delta-BHC	0.41	U	ng/L	P428986	
		Deltamethrin	1.3	U	ng/L	P428986	
		Dichlobenil	0.25	U	ng/L	P428986	
		Dicofol	1.3	U	ng/L	P428986	
		Dieldrin	0.41	U	ng/L	P428986	
		Endosulfan I	0.41	U	ng/L	P428986	
		Endosulfan II	0.41	U	ng/L	P428986	
		Endosulfan Sulfate	0.31	U	ng/L	P428986	
		Endrin	0.41	U	ng/L	P428986	
		Endrin Aldehyde	0.76	U	ng/L	P428986	
		Endrin Ketone	0.41	U	ng/L	P428986	
		Esfenvalerate	0.76	U	ng/L	P428986	
		Ethalfuralin	0.15	U	ng/L	P428986	
		Fenpropathrin	0.25	U	ng/L	P428986	
		Gamma-BHC	0.13	U	ng/L	P428986	
		Gamma-Chlordane	0.20	U	ng/L	P428986	
		Heptachlor	0.20	U	ng/L	P428986	
		Heptachlor Epoxide	0.25	U	ng/L	P428986	
		Hexachlorobenzene**	1.0	U	ng/L	P428986	
		Kepone	5.1	U	ng/L	P428986	
		Lambda-Cyhalothrin	0.76	U	ng/L	P428986	
		Methoprene	0.76	U	ng/L	P428986	
		Methoxychlor	0.31	U	ng/L	P428986	

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2402827	EPA 8270E	MGK-264	0.22	I	ng/L	P428986	
		Mirex	0.36	U	ng/L	P428986	
		Oxychlordane	0.31	U	ng/L	P428986	
		Permethrin	1.6	U	ng/L	P428986	
		Phenothrin	0.92	U	ng/L	P428986	
		Piperonyl Butoxide	0.17	I	ng/L	P428986	
		Prallethrin	2.0	U	ng/L	P428986	
		Tau-Fluvalinate	0.25	U	ng/L	P428986	
		Tetramethrin	0.76	U	ng/L	P428986	
		Trans-Nonachlor	0.20	U	ng/L	P428986	
		Triclosan Methyl	0.15	U	ng/L	P428986	
		Trifluralin	0.20	U	ng/L	P428986	
		Chlordane	2.2	I	ng/L	P428986	
		Toxaphene	15	U	ng/L	P428986	
2402828	EPA 8270E	Oxybenzone**	10	U	ng/L	P429161	
		Acetochlor	0.21	U	ng/L	P429161	
		Octinoxate**	120	V	ng/L	P429161	MS
		Alachlor	0.41	U	ng/L	P429161	
		Avobenzone**	100	U	ng/L	P429161	
		Ametryn	1.1	U	ng/L	P429161	
		Atrazine	26		ng/L	P429161	
		PBDE-47**	4.1	U	ng/L	P429161	
		Atrazine Desethyl	5.3	I	ng/L	P429161	
		PBDE-99**	5.1	U	ng/L	P429161	
		Azinphos Methyl	3.1	U	ng/L	P429161	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P429161	
		Azoxystrobin	350		ng/L	P429161	
		Bromacil	0.62	U	ng/L	P429161	
		2-Ethylhexyl	12	U	ng/L	P429161	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P429161	
		Dechlorane Plus**	31	U	ng/L	P429161	
		Caffeine**	9.0	I	ng/L	P429161	
		Dechlorane 602**	5.1	U	ng/L	P429161	
		Carbophenothion	0.51	U	ng/L	P429161	
		Dechlorane 603**	4.1	U	ng/L	P429161	
		Carfentrazone Ethyl	0.15	U	ng/L	P429161	
		Hexabromobenzene**	6.2	U	ng/L	P429161	
		Chlorfenapyr	0.31	U	ng/L	P429161	
		PBB-153**	8.2	U	ng/L	P429161	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P429161	
		Pentabromotoluene**	3.1	U	ng/L	P429161	
		Chlorpyrifos Methyl	0.10	U	ng/L	P429161	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P429161	
		Coumaphos	1.1	U	ng/L	P429161	
							RPD

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2402828	EPA 8270E	Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P429161	MS
		Cyanazine	5.1	U	ng/L	P429161	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P429161	
		Cyprodinil	13		ng/L	P429161	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P429161	MS
		Demeton	3.6	U	ng/L	P429161	
		Diazinon	0.13	U	ng/L	P429161	
		Difenoconazole	29		ng/L	P429161	MS, RPD
		Dimethenamid	0.10	U	ng/L	P429161	MS
		Dimethomorph	0.31	U	ng/L	P429161	
		Disulfoton	0.62	U	ng/L	P429161	
		Dithiopyr	2.0	IV	ng/L	P429161	MS
		EPTC	0.51	U	ng/L	P429161	
		Ethion	0.31	U	ng/L	P429161	
		Ethoprop	1.9		ng/L	P429161	
		Etridiazole	0.10	U	ng/L	P429161	
		Fenamiphos	0.46	U	ng/L	P429161	
		Fenbuconazole	0.51	U	ng/L	P429161	
		Fipronil	6.0		ng/L	P429161	MS, RPD
		Fipronil Desulfinyl**	5.2		ng/L	P429161	
		Fipronil Sulfide	8.4		ng/L	P429161	
		Fipronil Sulfone	12		ng/L	P429161	
		Fluazifop-P-butyl	0.10	U	ng/L	P429161	
		Fludioxonil	110		ng/L	P429161	
		Flumioxazin	3.1	U	ng/L	P429161	
		Flutolanil	0.10	U	ng/L	P429161	
		Fluxapyroxad	0.26	U	ng/L	P429161	MS, RPD
		Fonofos	0.15	U	ng/L	P429161	
		Hexazinone	0.51	U	ng/L	P429161	
		Imazalil	0.67	U	ng/L	P429161	
		Iprodione	0.51	U	ng/L	P429161	MS
		Loratadine**	0.31	U	ng/L	P429161	
		Malathion	0.36	U	ng/L	P429161	
		Metalaxyl	7.3		ng/L	P429161	
		Metolachlor	320		ng/L	P429161	
		Metribuzin	60		ng/L	P429161	
		Mevinphos	1.0	U	ng/L	P429161	
		Molinate	0.26	U	ng/L	P429161	
		Myclobutanil	0.36	U	ng/L	P429161	
		Naled	2.6	U	ng/L	P429161	
		Napropamide	2.7	I	ng/L	P429161	
		Norflurazon	1.0	U	ng/L	P429161	RPD
		Oxadiazon	15	J	ng/L	P429161	LCS
		Oxyfluorfen	0.21	U	ng/L	P429161	

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2402828	EPA 8270E	Parathion Ethyl	0.15	U	ng/L	P429161	
		Parathion Methyl	0.21	U	ng/L	P429161	
		Pendimethalin	0.77	U	ng/L	P429161	
		Phenytol**	5.4	U	ng/L	P429161	
		Phorate	0.26	U	ng/L	P429161	
		Prodiatamine	0.21	U	ng/L	P429161	
		Prometon	3.1	U	ng/L	P429161	
		Prometryn	0.36	U	ng/L	P429161	MS
		Pronamide	0.10	U	ng/L	P429161	
		Propanil	0.10	U	ng/L	P429161	
		Propargite	0.82	U	ng/L	P429161	
		Propiconazole	0.62	U	ng/L	P429161	
		Pyraflufen Ethyl	0.31	U	ng/L	P429161	RPD
		Pyridaben	1.4	U	ng/L	P429161	RPD
		Pyriproxyfen	0.26	U	ng/L	P429161	
		Simazine	0.26	U	ng/L	P429161	
		Stirophos	0.41	U	ng/L	P429161	
		Sulfentrazone	2.0	I	ng/L	P429161	RPD
		Tebuconazole	1.4	U	ng/L	P429161	
		Terbufos	0.21	U	ng/L	P429161	
		Terbutylazine	0.21	U	ng/L	P429161	
		Thiobencarb	0.51	U	ng/L	P429161	
		Triadimefon	0.15	U	ng/L	P429161	

Ref. Method and Comment:

EPA 8270E: MS precision for chlorothalonil not assessed due to no recoveries.

EPA 8270E: V - Due to the presence of octinoxate in both the Method Blank and the sample.

EPA 8270E: V - Due to the presence of dithiopyr in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428986

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428986

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428986

Component	Result	Code	Units
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P429161

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429161

Component	Result	Code	Units
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
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	1.3	I	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429161

Component	Result	Code	Units
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
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	230		ng/L
Octinoxate	71		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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429161

Component	Result	Code	Units
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	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
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
Stiophos	0.40	U	ng/L
Stiophos	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276
Batch ID: P428986

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.1		P	10 - 92.0
Alpha-BHC	92.8		P	75 - 107
Alpha-Chlordane	70.5		P	50 - 108
Beta-BHC	95.2		P	36 - 138
Beta-Cyfluthrin	80.3		P	20 - 161
Bifenthrin	38.2		P	10 - 119
Chlorothalonil	54.8		P	26 - 186
Cis-Nonachlor	59.5		P	42 - 119
Cypermethrin	74.8		P	22 - 150
Dacthal	96.4		P	72 - 119
DDD-p,p'	54.8		P	45 - 107
DDE-p,p'	57.0		P	48 - 106
DDT-p,p'	64.0		P	48 - 110
Delta-BHC	102		P	54 - 140
Deltamethrin	86.0		P	22 - 189
Dichlobenil	70.7		P	36 - 117
Dicofol	73.7		P	46 - 155
Dieldrin	65.6		P	54 - 110
Endosulfan I	67.1		P	59 - 105
Endosulfan II	67.9		P	51 - 118
Endosulfan Sulfate	102		P	57 - 121
Endrin	64.0		P	10 - 120
Endrin Aldehyde	80.1		P	34 - 118
Endrin Ketone	121		P	69 - 177
Esfenvalerate	70.2		P	23 - 168
Ethalfuralin	71.5		P	49 - 99.0
Fenpropathrin	66.1		P	34 - 117
Gamma-BHC	102		P	72 - 117
Gamma-Chlordane	58.9		P	43 - 106
Heptachlor	66.8		P	41 - 98.0
Heptachlor Epoxide	87.8		P	57 - 106
Hexachlorobenzene	59.6		P	36 - 99.0
Kepone	149		P	16 - 215
Lambda-Cyhalothrin	54.1		P	21 - 177
Methoprene	43.0		P	10 - 119
Methoxychlor	74.8		P	60 - 112
MGK-264	82.6		P	26 - 122
Mirex	41.5		P	10 - 169
Oxychlordane	62.7		P	43 - 105
PCB-1016	75.0		P	48 - 112
PCB-1260	67.6		P	44 - 118
Permethrin	60.9		P	24 - 148
Phenothrin	45.7		P	10 - 106
Piperonyl Butoxide	80.9		P	10 - 139
Prallethrin	62.5		P	17 - 109
Tau-Fluvalinate	60.2		P	13 - 131
Tetramethrin	74.0		P	10 - 132
Trans-Nonachlor	60.6		P	44 - 106
Triclosan Methyl	67.0		P	59 - 109
Trifluralin	70.7		P	44 - 101

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P429161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	111		P	42 - 162
Acetochlor	73.8		P	69 - 123
Alachlor	68.9		P	65 - 118
Ametryn	116		P	58 - 141
Atrazine	113		P	73 - 118
Atrazine Desethyl	100		P	32 - 125
Avobenzone	138		P	40 - 203
Azinphos Methyl	110		P	36 - 197
Azoxystrobin	86.4		P	58 - 226
Bromacil	95.3		P	48 - 120
Butylate	72.3		P	27 - 85.0
Caffeine	131		P	40 - 137
Carbophenothion	83.6		P	54 - 132
Carfentrazone Ethyl	77.3		P	60 - 142
Chlorfenapyr	60.6		P	53 - 117
Chlorpyrifos Ethyl	86.4		P	59 - 116
Chlorpyrifos Methyl	79.0		P	66 - 119
Coumaphos	50.3		P	11 - 234
Cyanazine	151		P	61 - 248
Cyprodinil	86.5		P	50 - 147
Dechlorane 602	94.4		P	50 - 150
Dechlorane 603	132		P	50 - 150
Dechlorane Plus	78.1		P	47 - 182
Demeton	80.3		P	30 - 138
Diazinon	108		P	67 - 126
Difenoconazole	83.8		P	38 - 205
Dimethenamid	85.2		P	57 - 111
Dimethomorph	162		P	16 - 212
Disulfoton	107		P	46 - 126
Dithiopyr	96.4		P	62 - 115
EPTC	58.3		P	28 - 80.0
Ethion	72.5		P	24 - 122
Ethoprop	88.3		P	62 - 113
Etridiazole	68.7		P	28 - 92.0
Fenamiphos	64.5		P	57 - 128
Fenbuconazole	130		P	52 - 155
Fipronil	86.9		P	63 - 130
Fipronil Desulfinyl	86.3		P	61 - 130
Fipronil Sulfide	89.3		P	56 - 117
Fipronil Sulfone	83.2		P	52 - 118
Fluazifop-P-butyl	67.6		P	61 - 128
Fludioxonil	67.5		P	59 - 129
Flumioxazin	39.8		P	30 - 250
Flutolanil	56.2		P	53 - 127
Fluxapyroxad	63.6		P	42 - 132
Fonofos	92.5		P	61 - 110
Hexabromobenzene	110		P	50 - 150
Hexazinone	91.0		P	46 - 139
Imazalil	50.2		P	40 - 139
Iprodione	118		P	40 - 146
Loratadine	51.6		P	10 - 224
Malathion	120		P	61 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P429161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	95.4		P	58 - 121
Metolachlor	88.9		P	64 - 118
Metribuzin	94.2		P	45 - 245
Mevinphos	67.7		P	49 - 118
Molinate	63.1		P	42 - 92.0
Myclobutanil	83.8		P	55 - 127
Naled	37.3		P	10 - 114
Napropamide	71.3		P	39 - 121
Norflurazon	64.8		P	55 - 129
Octinoxate	135		P	26 - 166
Oxadiazon	125		F	54 - 115
Oxybenzone	86.7		P	49 - 135
Oxyfluorfen	90.8		P	64 - 139
Parathion Ethyl	83.2		P	70 - 111
Parathion Methyl	85.3		P	76 - 136
PBB-153	129		P	50 - 150
PBDE-47	95.5		P	41 - 148
PBDE-99	104		P	38 - 147
Pendimethalin	115		P	52 - 118
Pentabromotoluene	89.3		P	50 - 150
Phenytoin	51.8		P	10 - 162
Phorate	93.9		P	40 - 122
Prodiamine	65.1		P	26 - 141
Prometon	99.2		P	54 - 122
Prometryn	115		P	61 - 128
Pronamide	99.7		P	72 - 121
Propanil	91.5		P	45 - 144
Propargite	44.2		P	10 - 199
Propiconazole	62.7		P	56 - 127
Pyraflufen Ethyl	87.4		P	56 - 140
Pyridaben	114		P	26 - 211
Pyriproxyfen	147		P	33 - 194
Simazine	67.6		P	67 - 121
Stirophos	53.9		P	20 - 142
Sulfentrazone	49.4		P	21 - 144
Tebuconazole	50.2		P	10 - 122
Terbufos	123		P	60 - 129
Terbuthylazine	71.6		P	69 - 113
Tetradecachloro-m-terphenyl	156		P	70 - 200
Thiobencarb	92.9		P	51 - 120
Tri-o-cresyl Phosphate	93.0		P	49 - 150
Triadimefon	99.4		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	50.9		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	80.6		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	79.2		P	70 - 180

Reference Method: EPA 8276

Batch ID: P428986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	74.5		P	61 - 116
Toxaphene	78.5		P	48 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402675	Aldrin	51.4	43.2	P/P	20 - 82.0
2402675	Alpha-BHC	90.9	82.5	P/P	71 - 109
2402675	Alpha-Chlordane	71.2	63.0	P/P	42 - 106
2402675	Beta-BHC	87.4	91.3	P/P	69 - 180
2402675	Beta-Cyfluthrin	65.4	72.5	P/P	18 - 175
2402675	Bifenthrin	36.8	34.0	P/P	21 - 128
2402675	Chlorothalonil	0.0	0.0	F/F	10 - 300
2402675	Cis-Nonachlor	58.1	44.7	P/P	34 - 106
2402675	Cypermethrin	61.5	67.9	P/P	22 - 158
2402675	Dacthal	87.6	88.9	P/P	54 - 116
2402675	DDD-p,p'	55.3	40.5	P/P	34 - 107
2402675	DDE-p,p'	61.0	49.1	P/P	33 - 110
2402675	DDT-p,p'	59.3	52.3	P/P	50 - 122
2402675	Delta-BHC	91.2	98.6	P/P	77 - 193
2402675	Deltamethrin	70.9	86.8	P/P	10 - 195
2402675	Dichlobenil	59.4	54.2	P/P	25 - 113
2402675	Dicofol	67.2	58.7	P/P	38 - 247
2402675	Dieldrin	68.6	53.1	P/P	45 - 118
2402675	Endosulfan I	68.0	54.0	P/P	51 - 106
2402675	Endosulfan II	67.1	55.7	P/P	37 - 122
2402675	Endosulfan Sulfate	88.3	75.8	P/P	43 - 132
2402675	Endrin	68.2	52.5	P/P	29 - 101
2402675	Endrin Aldehyde	64.9	59.2	P/P	19 - 110
2402675	Endrin Ketone	117	115	P/P	60 - 140
2402675	Esfenvalerate	57.5	69.9	P/P	26 - 199
2402675	Ethalfuralin	72.6	58.0	P/P	45 - 99.0
2402675	Fenpropathrin	61.0	53.2	P/P	35 - 120
2402675	Gamma-BHC	99.9	94.7	P/P	63 - 128
2402675	Gamma-Chlordane	61.9	50.3	P/P	40 - 104
2402675	Heptachlor	64.2	56.8	P/P	36 - 97.0
2402675	Heptachlor Epoxide	80.1	72.6	P/P	49 - 184
2402675	Hexachlorobenzene	51.8	41.1	P/P	39 - 96.0
2402675	Kepone	64.8	119	P/P	10 - 217
2402675	Lambda-Cyhalothrin	48.6	50.0	P/P	21 - 193
2402675	Methoprene	43.7	36.1	P/P	20 - 106
2402675	Methoxychlor	65.0	62.0	P/P	53 - 118
2402675	MGK-264	77.8	76.4	P/P	40 - 118
2402675	Mirex	43.6	34.7	P/P	26 - 92.0
2402675	Oxychlordane	66.2	53.6	P/P	44 - 99.0
2402675	Permethrin	52.7	53.0	P/P	33 - 182
2402675	Phenothrin	44.9	48.6	P/P	10 - 129
2402675	Piperonyl Butoxide	73.0	60.9	P/P	10 - 211
2402675	Prallethrin	67.3	52.8	P/P	24 - 113
2402675	Tau-Fluvalinate	51.1	61.4	P/P	14 - 149
2402675	Tetramethrin	69.3	68.8	P/P	17 - 151
2402675	Trans-Nonachlor	60.6	50.2	P/P	42 - 102
2402675	Triclosan Methyl	71.4	53.0	P/P	48 - 108
2402675	Trifluralin	69.0	58.3	P/P	47 - 96.0
2402808	PCB-1016	77.2	71.1	P/P	46 - 111
2402808	PCB-1260	71.0	64.9	P/P	45 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P429161

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402681	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	86.3	P/P	26 - 165
2402681	Acetochlor	90.2	75.2	P/P	67 - 124
2402681	Alachlor	102	92.0	P/P	60 - 120
2402681	Ametryn	169	185	P/P	54 - 216
2402681	Atrazine	97.9	86.7	P/P	66 - 128
2402681	Atrazine Desethyl	120	116	P/P	15 - 122
2402681	Avobenzone	145	125	P/P	37 - 178
2402681	Azinphos Methyl	128	102	P/P	40 - 292
2402681	Azoxystrobin	111	128	P/P	35 - 220
2402681	Bromacil	107	92.0	P/P	45 - 127
2402681	Butylate	79.4	78.1	P/P	20 - 83.0
2402681	Caffeine	143	142	P/P	10 - 194
2402681	Carbophenothion	115	84.3	P/P	57 - 127
2402681	Carfentrazone Ethyl	104	79.8	P/P	51 - 141
2402681	Chlorfenapyr	74.3	72.2	P/P	46 - 111
2402681	Chlorpyrifos Ethyl	72.6	66.0	P/P	52 - 120
2402681	Chlorpyrifos Methyl	98.9	92.4	P/P	63 - 119
2402681	Coumaphos	90.3	68.4	P/P	10 - 228
2402681	Cyanazine	188	169	P/P	59 - 241
2402681	Cyprodinil	124	116	P/P	47 - 146
2402681	Dechlorane 602	89.5	68.2	P/P	50 - 150
2402681	Dechlorane 603	139	118	P/P	50 - 150
2402681	Dechlorane Plus	84.6	72.6	P/P	50 - 150
2402681	Demeton	99.5	101	P/P	40 - 136
2402681	Diazinon	131	122	P/P	69 - 132
2402681	Difenoconazole	103	48.8	P/F	57 - 258
2402681	Dimethenamid	116	100	F/P	54 - 110
2402681	Dimethomorph	120	141	P/P	28 - 210
2402681	Disulfoton	132	101	P/P	43 - 133
2402681	Dithiopyr	138	109	F/P	39 - 116
2402681	EPTC	70.9	64.9	P/P	20 - 78.0
2402681	Ethion	110	119	P/P	17 - 119
2402681	Ethoprop	102	109	P/P	66 - 120
2402681	Etridiazole	75.6	70.5	P/P	28 - 96.0
2402681	Fenamiphos	76.2	75.0	P/P	41 - 126
2402681	Fenbuconazole	76.4	53.1	P/P	42 - 169
2402681	Fipronil	62.6	42.9	P/F	61 - 132
2402681	Fipronil Desulfinyl	91.1	82.1	P/P	56 - 132
2402681	Fipronil Sulfide	73.0	70.4	P/P	48 - 119
2402681	Fipronil Sulfone	90.8	68.3	P/P	42 - 131
2402681	Fluazifop-P-butyl	107	96.3	P/P	53 - 131
2402681	Fludioxonil	91.4	71.2	P/P	56 - 127
2402681	Flumioxazin	140	93.7	P/P	19 - 300
2402681	Flutolanil	85.2	79.8	P/P	41 - 127
2402681	Fluxapyroxad	168	32.6	P/F	42 - 172
2402681	Fonofos	108	102	P/P	59 - 113
2402681	Hexabromobenzene	112	88.1	P/P	50 - 150
2402681	Hexazinone	103	101	P/P	66 - 122
2402681	Imazalil	63.7	56.8	P/P	21 - 283
2402681	Iprodione	23.1	22.6	F/F	43 - 150
2402681	Loratadine	187	116	P/P	23 - 201
2402681	Malathion	79.7	76.3	P/P	58 - 136

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P429161

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402681	Metalaxyl	117	110	P/P	55 - 120
2402681	Metolachlor	74.7	81.5	P/P	57 - 121
2402681	Metribuzin	143	117	P/P	58 - 294
2402681	Mevinphos	74.7	84.5	P/P	50 - 126
2402681	Molinate	76.7	74.4	P/P	42 - 93.0
2402681	Myclobutanil	108	87.8	P/P	55 - 125
2402681	Naled	49.7	49.7	P/P	18 - 200
2402681	Napropamide	105	75.5	P/P	39 - 110
2402681	Norflurazon	110	75.8	P/P	48 - 128
2402681	Octinoxate	159	218	F/F	21 - 159
2402681	Oxadiazon	91.0	69.1	P/P	43 - 112
2402681	Oxybenzone	89.3	88.6	P/P	41 - 142
2402681	Oxyfluorfen	92.1	87.4	P/P	64 - 153
2402681	Parathion Ethyl	106	99.9	P/P	69 - 114
2402681	Parathion Methyl	118	119	P/P	79 - 139
2402681	PBB-153	130	116	P/P	50 - 150
2402681	PBDE-47	91.1	76.5	P/P	27 - 144
2402681	PBDE-99	98.0	71.0	P/P	18 - 150
2402681	Pendimethalin	117	117	P/P	50 - 139
2402681	Pentabromotoluene	91.5	84.9	P/P	50 - 150
2402681	Phenytoin	138	137	P/P	10 - 146
2402681	Phorate	131	126	P/P	54 - 161
2402681	Prodiamine	65.4	68.5	P/P	30 - 161
2402681	Prometon	131	117	P/P	45 - 134
2402681	Prometryn	157	139	F/F	45 - 137
2402681	Pronamide	118	95.0	P/P	65 - 133
2402681	Propanil	124	115	P/P	49 - 142
2402681	Propargite	78.5	62.6	P/P	10 - 203
2402681	Propiconazole	85.9	63.4	P/P	38 - 146
2402681	Pyraflufen Ethyl	89.3	66.0	P/P	34 - 153
2402681	Pyridaben	68.5	45.4	P/P	12 - 192
2402681	Pyriproxyfen	74.3	54.8	P/P	33 - 180
2402681	Simazine	88.7	88.6	P/P	51 - 157
2402681	Stirophos	65.7	42.3	P/P	10 - 128
2402681	Sulfentrazone	115	58.1	P/P	53 - 186
2402681	Tebuconazole	90.3	58.0	P/P	10 - 133
2402681	Terbufos	138	131	P/P	65 - 139
2402681	Terbutylazine	92.6	84.4	P/P	66 - 117
2402681	Tetradecachloro-m-terphenyl	202	156	F/P	70 - 200
2402681	Thiobencarb	118	101	P/P	51 - 119
2402681	Tri-o-cresyl Phosphate	92.5	86.2	P/P	31 - 144
2402681	Triadimefon	104	83.1	P/P	48 - 119
2402681	Tris(1-chloro-2-propyl) phosphate (TCPP)	48.1	49.8	F/F	50 - 150
2402681	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	82.2	69.7	P/P	50 - 150
2402681	Tris(2-chloroethyl) phosphate (TCEP)	79.4	75.2	P/P	70 - 180

Reference Method: EPA 8276

Batch ID: P428986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402808	Chlordane	77.6	77.2	P/P	53 - 126
2402808	Toxaphene	92.8	95.5	P/P	56 - 211

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P428986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402675	Aldrin	17.4	Spike	P	0 - 41
2402675	Alpha-BHC	9.60	Spike	P	0 - 25
2402675	Alpha-Chlordane	12.2	Spike	P	0 - 33
2402675	Beta-BHC	4.36	Spike	P	0 - 36
2402675	Beta-Cyfluthrin	10.3	Spike	P	0 - 42
2402675	Bifenthrin	7.71	Spike	P	0 - 53
2402675	Cis-Nonachlor	26.2	Spike	P	0 - 29
2402675	Cypermethrin	9.84	Spike	P	0 - 40
2402675	Dacthal	1.46	Spike	P	0 - 26
2402675	DDD-p,p'	31.0	Spike	P	0 - 39
2402675	DDE-p,p'	21.5	Spike	P	0 - 33
2402675	DDT-p,p'	12.5	Spike	P	0 - 40
2402675	Delta-BHC	7.77	Spike	P	0 - 37
2402675	Deltamethrin	20.1	Spike	P	0 - 100
2402675	Dichlobenil	9.02	Spike	P	0 - 40
2402675	Dicofol	13.4	Spike	P	0 - 31
2402675	Dieldrin	25.4	Spike	P	0 - 27
2402675	Endosulfan I	22.9	Spike	P	0 - 23
2402675	Endosulfan II	18.6	Spike	P	0 - 28
2402675	Endosulfan Sulfate	15.2	Spike	P	0 - 38
2402675	Endrin	26.1	Spike	P	0 - 63
2402675	Endrin Aldehyde	9.23	Spike	P	0 - 60
2402675	Endrin Ketone	1.46	Spike	P	0 - 37
2402675	Esfenvalerate	19.5	Spike	P	0 - 52
2402675	Ethalfuralin	22.5	Spike	P	0 - 23
2402675	Fenpropathrin	13.7	Spike	P	0 - 32
2402675	Gamma-BHC	5.37	Spike	P	0 - 17
2402675	Gamma-Chlordane	20.6	Spike	P	0 - 40
2402675	Heptachlor	12.2	Spike	P	0 - 29
2402675	Heptachlor Epoxide	9.91	Spike	P	0 - 25
2402675	Hexachlorobenzene	23.2	Spike	P	0 - 36
2402675	Kepone	59.2	Spike	P	0 - 93
2402675	Lambda-Cyhalothrin	2.90	Spike	P	0 - 55
2402675	Methoprene	19.0	Spike	P	0 - 53
2402675	Methoxychlor	4.71	Spike	P	0 - 29
2402675	MGK-264	1.78	Spike	P	0 - 35
2402675	Mirex	22.7	Spike	P	0 - 46
2402675	Oxychlordane	20.9	Spike	P	0 - 29
2402675	Permethrin	0.474	Spike	P	0 - 44
2402675	Phenothrin	8.04	Spike	P	0 - 56
2402675	Piperonyl Butoxide	18.0	Spike	P	0 - 100
2402675	Prallethrin	24.2	Spike	P	0 - 42
2402675	Tau-Fluvalinate	18.4	Spike	P	0 - 54
2402675	Tetramethrin	0.727	Spike	P	0 - 51
2402675	Trans-Nonachlor	18.9	Spike	P	0 - 37
2402675	Triclosan Methyl	29.5	Spike	P	0 - 31
2402675	Trifluralin	16.8	Spike	P	0 - 30
2402808	PCB-1016	8.23	Spike	P	0 - 32
2402808	PCB-1260	8.93	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P429161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402681	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	21.8	Spike	P	0 - 37
2402681	Acetochlor	18.1	Spike	P	0 - 28
2402681	Alachlor	9.90	Spike	P	0 - 30
2402681	Ametryn	9.09	Spike	P	0 - 32
2402681	Atrazine	10.8	Spike	P	0 - 41
2402681	Atrazine Desethyl	3.36	Spike	P	0 - 36
2402681	Avobenzone	14.8	Spike	P	0 - 36
2402681	Azinphos Methyl	22.9	Spike	P	0 - 75
2402681	Azoxystrobin	14.1	Spike	P	0 - 39
2402681	Bromacil	15.1	Spike	P	0 - 33
2402681	Butylate	1.61	Spike	P	0 - 44
2402681	Caffeine	0.919	Spike	P	0 - 74
2402681	Carbophenothion	30.7	Spike	F	0 - 25
2402681	Carfentrazone Ethyl	26.3	Spike	P	0 - 27
2402681	Chlorfenapyr	2.93	Spike	P	0 - 24
2402681	Chlorpyrifos Ethyl	9.51	Spike	P	0 - 26
2402681	Chlorpyrifos Methyl	6.86	Spike	P	0 - 26
2402681	Coumaphos	27.5	Spike	P	0 - 28
2402681	Cyanazine	10.8	Spike	P	0 - 48
2402681	Cyprodinil	6.81	Spike	P	0 - 29
2402681	Dechlorane 602	27.1	Spike	P	0 - 30
2402681	Dechlorane 603	16.3	Spike	P	0 - 30
2402681	Dechlorane Plus	15.3	Spike	P	0 - 30
2402681	Demeton	1.93	Spike	P	0 - 33
2402681	Diazinon	7.12	Spike	P	0 - 29
2402681	Difenoconazole	71.3	Spike	F	0 - 34
2402681	Dimethenamid	14.5	Spike	P	0 - 39
2402681	Dimethomorph	16.0	Spike	P	0 - 51
2402681	Disulfoton	26.8	Spike	P	0 - 30
2402681	Dithiopyr	23.1	Spike	P	0 - 26
2402681	EPTC	8.91	Spike	P	0 - 43
2402681	Ethion	7.74	Spike	P	0 - 79
2402681	Ethoprop	6.54	Spike	P	0 - 29
2402681	Etridiazole	6.97	Spike	P	0 - 33
2402681	Fenamiphos	1.60	Spike	P	0 - 40
2402681	Fenbuconazole	35.9	Spike	P	0 - 74
2402681	Fipronil	37.4	Spike	F	0 - 29
2402681	Fipronil Desulfinyl	10.3	Spike	P	0 - 32
2402681	Fipronil Sulfide	3.64	Spike	P	0 - 30
2402681	Fipronil Sulfone	28.4	Spike	P	0 - 33
2402681	Fluazifop-P-butyl	10.5	Spike	P	0 - 38
2402681	Fludioxonil	24.9	Spike	P	0 - 29
2402681	Flumioxazin	39.4	Spike	P	0 - 51
2402681	Flutolanil	6.53	Spike	P	0 - 25
2402681	Fluxapyroxad	135	Spike	F	0 - 45
2402681	Fonofos	5.15	Spike	P	0 - 27
2402681	Hexabromobenzene	23.7	Spike	P	0 - 30
2402681	Hexazinone	2.49	Spike	P	0 - 30
2402681	Imazalil	11.4	Spike	P	0 - 100
2402681	Iprodione	2.14	Spike	P	0 - 33
2402681	Loratadine	47.1	Spike	P	0 - 56

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P429161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402681	Malathion	4.27	Spike	P	0 - 37
2402681	Metalaxyl	6.49	Spike	P	0 - 40
2402681	Metolachlor	8.73	Spike	P	0 - 29
2402681	Metribuzin	20.2	Spike	P	0 - 45
2402681	Mevinphos	12.3	Spike	P	0 - 29
2402681	Molinate	2.95	Spike	P	0 - 33
2402681	Myclobutanil	20.7	Spike	P	0 - 26
2402681	Naled	0.0511	Spike	P	0 - 37
2402681	Napropamide	32.4	Spike	P	0 - 44
2402681	Norflurazon	36.6	Spike	F	0 - 30
2402681	Octinoxate	28.3	Spike	P	0 - 45
2402681	Oxadiazon	27.4	Spike	P	0 - 28
2402681	Oxybenzone	0.672	Spike	P	0 - 46
2402681	Oxyfluorfen	5.22	Spike	P	0 - 28
2402681	Parathion Ethyl	6.02	Spike	P	0 - 31
2402681	Parathion Methyl	0.477	Spike	P	0 - 29
2402681	PBB-153	11.0	Spike	P	0 - 30
2402681	PBDE-47	17.4	Spike	P	0 - 36
2402681	PBDE-99	31.9	Spike	P	0 - 40
2402681	Pendimethalin	0.107	Spike	P	0 - 33
2402681	Pentabromotoluene	7.45	Spike	P	0 - 30
2402681	Phenytol	0.931	Spike	P	0 - 100
2402681	Phorate	3.73	Spike	P	0 - 36
2402681	Prodiamine	4.62	Spike	P	0 - 71
2402681	Prometon	11.6	Spike	P	0 - 36
2402681	Prometryn	12.1	Spike	P	0 - 28
2402681	Pronamide	21.7	Spike	P	0 - 24
2402681	Propanil	6.84	Spike	P	0 - 28
2402681	Propargite	22.6	Spike	P	0 - 43
2402681	Propiconazole	30.1	Spike	P	0 - 33
2402681	Pyraflufen Ethyl	30.1	Spike	F	0 - 29
2402681	Pyridaben	40.6	Spike	F	0 - 30
2402681	Pyriproxyfen	30.2	Spike	P	0 - 79
2402681	Simazine	0.0793	Spike	P	0 - 29
2402681	Stirophos	43.3	Spike	P	0 - 61
2402681	Sulfentrazone	65.9	Spike	F	0 - 33
2402681	Tebuconazole	43.5	Spike	P	0 - 69
2402681	Terbufos	4.92	Spike	P	0 - 29
2402681	Terbuthylazine	9.26	Spike	P	0 - 32
2402681	Tetradecachloro-m-terphenyl	25.3	Spike	P	0 - 30
2402681	Thiobencarb	15.6	Spike	P	0 - 26
2402681	Tri-o-cresyl Phosphate	7.07	Spike	P	0 - 33
2402681	Triadimefon	22.6	Spike	P	0 - 28
2402681	Tris(1-chloro-2-propyl) phosphate (TCPP)	3.35	Spike	P	0 - 30
2402681	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	16.5	Spike	P	0 - 30
2402681	Tris(2-chloroethyl) phosphate (TCEP)	5.46	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P428986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402808	Chlordane	0.611	Spike	P	0 - 25
2402808	Toxaphene	2.82	Spike	P	0 - 26

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

Quality Assurance Report Surrogates

Lab Sample ID: 2402827
Field Sample ID: G2NE1212

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	91.9	P	29 - 130
EPA 8270E	Decachlorobiphenyl	114	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	63.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	76.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	70.0	P	30 - 101
EPA 8276	PCNB	94.1	P	48 - 121

Lab Sample ID: 2402828
Field Sample ID: G2NE1212

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	89.7	P	20 - 200
EPA 8270E	Simazine-d10	81.6	P	62 - 142
EPA 8270E	Terbufos-d10	81.1	P	58 - 132
EPA 8270E	Terphenyl-d14	71.7	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118887
Included Lab Sample IDs: 2402827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	94.9		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	95.1		P	80 - 120
Beta-BHC	92.2		P	80 - 120
Beta-Cyfluthrin	119		P	80 - 120
Bifenthrin	99.4		P	80 - 120
Chlorothalonil	96.8		P	80 - 120
Cis-Nonachlor	102		P	80 - 120
Cypermethrin	109		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	97.3		P	80 - 120
DDE-p,p'	96.9		P	80 - 120
DDT-p,p'	94.0		P	80 - 120
Delta-BHC	94.1		P	80 - 120
Deltamethrin	117		P	80 - 120
Dichlobenil	83.2		P	80 - 120
Dicofol	103		P	80 - 120
Dieldrin	97.9		P	80 - 120
Endosulfan I	95.9		P	80 - 120
Endosulfan II	97.5		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	97.4		P	80 - 120
Endrin Aldehyde	96.9		P	80 - 120
Endrin Ketone	112		P	80 - 120
Esfenvalerate	112		P	80 - 120
Ethalfuralin	98.4		P	80 - 120
Fenpropathrin	103		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	97.0		P	80 - 120
Heptachlor	95.8		P	80 - 120
Heptachlor Epoxide	97.1		P	80 - 120
Hexachlorobenzene	103		P	80 - 120
Kepone	101		P	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	98.8		P	80 - 120
Methoxychlor	94.8		P	80 - 120
MGK-264	91.9		P	80 - 120
Mirex	93.4		P	80 - 120
Oxychlordane	93.9		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	97.1		P	80 - 120
Tau-Fluvalinate	117		P	80 - 120
Tetramethrin	97.8		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	98.2		P	80 - 120
Trifluralin	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118967
Included Lab Sample IDs: 2402827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.1		P	80 - 120
PCB-1260	95.6		P	80 - 120

Reference Method: EPA 8276
Run ID: A119015
Included Lab Sample IDs: 2402827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.4		P	80 - 120
Toxaphene	96.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119025
Included Lab Sample IDs: 2402828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.7		P	80 - 120
Avobenzene	94.1		P	80 - 120
Dechlorane 602	98.2		P	80 - 120
Dechlorane 603	100		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Hexabromobenzene	95.6		P	80 - 120
Octinoxate	94.7		P	80 - 120
Oxybenzone	95.9		P	80 - 120
PBB-153	94.8		P	80 - 120
PBDE-47	93.1		P	80 - 120
PBDE-99	95.8		P	80 - 120
Pentabromotoluene	98.5		P	80 - 120
Tetradecachloro-m-terphenyl	101		P	80 - 120
Tri-o-cresyl Phosphate	94.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	84.1		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.4		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	94.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119168
Included Lab Sample IDs: 2402828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.0		P	80 - 120
Alachlor	90.8		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	89.4		P	80 - 120
Atrazine Desethyl	93.3		P	80 - 120
Azinphos Methyl	92.0		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	106		P	80 - 120
Caffeine	113		P	80 - 120
Carbophenothion	98.7		P	80 - 120
Carfentrazone Ethyl	96.9		P	80 - 120
Chlorfenapyr	94.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119168
Included Lab Sample IDs: 2402828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Ethyl	92.3		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	98.3		P	80 - 120
Cyanazine	111		P	80 - 120
Cyprodinil	97.7		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	99.1		P	80 - 120
Difenoconazole	93.9		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	81.2		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	99.9		P	80 - 120
EPTC	98.4		P	80 - 120
Ethion	95.3		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	97.5		P	80 - 120
Fenamiphos	88.3		P	80 - 120
Fenbuconazole	83.8		P	80 - 120
Fipronil	88.0		P	80 - 120
Fipronil Desulfinyl	97.0		P	80 - 120
Fipronil Sulfide	97.7		P	80 - 120
Fipronil Sulfone	97.5		P	80 - 120
Fluazifop-P-butyl	96.2		P	80 - 120
Flumioxazin	94.0		P	80 - 120
Flutolanil	99.1		P	80 - 120
Fluxapyroxad	97.6		P	80 - 120
Fonofos	97.5		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	90.5		P	80 - 120
Iprodione	84.6		P	80 - 120
Loratadine	83.5		P	80 - 120
Malathion	85.6		P	80 - 120
Metaxyl	95.8		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	95.9		P	80 - 120
Molinate	87.1		P	80 - 120
Myclobutanil	86.8		P	80 - 120
Naled	99.4		P	80 - 120
Napropamide	100		P	80 - 120
Norflurazon	96.3		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	89.2		P	80 - 120
Pendimethalin	111		P	80 - 120
Phenytoin	99.0		P	80 - 120
Phorate	93.8		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	106		P	80 - 120
Prometryn	98.8		P	80 - 120
Pronamide	99.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119168
Included Lab Sample IDs: 2402828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propanil	102		P	80 - 120
Propargite	97.9		P	80 - 120
Propiconazole	86.9		P	80 - 120
Pyraflufen Ethyl	96.1		P	80 - 120
Pyridaben	94.0		P	80 - 120
Pyriproxyfen	101		P	80 - 120
Simazine	87.2		P	80 - 120
Stirophos	90.5		P	80 - 120
Sulfentrazone	95.4		P	80 - 120
Tebuconazole	97.7		P	80 - 120
Terbufos	99.8		P	80 - 120
Terbuthylazine	91.6		P	80 - 120
Thiobencarb	96.4		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119178
Included Lab Sample IDs: 2402828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	101		P	80 - 120
Fludioxonil	103		P	80 - 120
Metolachlor	102		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	
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	111	107	86.3			21.8
	Acetochlor	73.8	90.2	75.2			18.1
	Alachlor	68.9	102	92.0			9.90
	Aldrin	50.1	51.4	43.2			17.4
	Alpha-BHC	92.8	90.9	82.5			9.60
	Alpha-Chlordane	70.5	71.2	63.0			12.2
	Ametryn	116	169	185			9.09
	Atrazine	113	97.9	86.7			10.8
	Atrazine Desethyl	100	120	116			3.36
	Avobenzone	138	145	125			14.8
	Azinphos Methyl	110	128	102			22.9
	Azoxystrobin	86.4	111	128			14.1
	Beta-BHC	95.2	87.4	91.3			4.36
	Beta-Cyfluthrin	80.3	65.4	72.5			10.3
	Bifenthrin	38.2	36.8	34.0			7.71
	Bromacil	95.3	107	92.0			15.1
	Butylate	72.3	79.4	78.1			1.61
	Caffeine	131	143	142			0.919
	Carbophenothion	83.6	115	84.3			30.7
	Carfentrazone Ethyl	77.3	104	79.8			26.3
	Chlorfenapyr	60.6	74.3	72.2			2.93
	Chlorothalonil	54.8	0.0	0.0			
	Chlorpyrifos Ethyl	86.4	72.6	66.0			9.51
	Chlorpyrifos Methyl	79.0	98.9	92.4			6.86
	Cis-Nonachlor	59.5	58.1	44.7			26.2
	Coumaphos	50.3	90.3	68.4			27.5
	Cyanazine	151	188	169			10.8
	Cypermethrin	74.8	61.5	67.9			9.84
	Cyprodinil	86.5	124	116			6.81
	Dacthal	96.4	87.6	88.9			1.46
	DDD-p,p'	54.8	55.3	40.5			31.0
	DDE-p,p'	57.0	61.0	49.1			21.5
	DDT-p,p'	64.0	59.3	52.3			12.5
	Dechlorane 602	94.4	89.5	68.2			27.1
	Dechlorane 603	132	139	118			16.3
	Dechlorane Plus	78.1	84.6	72.6			15.3
	Delta-BHC	102	91.2	98.6			7.77
	Deltamethrin	86.0	70.9	86.8			20.1
	Demeton	80.3	99.5	101			1.93
	Diazinon	108	131	122			7.12
	Dichlobenil	70.7	59.4	54.2			9.02
	Dicofol	73.7	67.2	58.7			13.4
	Dieldrin	65.6	68.6	53.1			25.4
	Difenoconazole	83.8	103	48.8			71.3
	Dimethenamid	85.2	116	100			14.5
	Dimethomorph	162	120	141			16.0
	Disulfoton	107	132	101			26.8
	Dithiopyr	96.4	138	109			23.1
	Endosulfan I	67.1	68.0	54.0			22.9
	Endosulfan II	67.9	67.1	55.7			18.6
	Endosulfan Sulfate	102	88.3	75.8			15.2
	Endrin	64.0	68.2	52.5			26.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Endrin Aldehyde	80.1	64.9	59.2		9.23
	Endrin Ketone	121	117	115		1.46
	EPTC	58.3	70.9	64.9		8.91
	Esfenvalerate	70.2	57.5	69.9		19.5
	Ethalfuralin	71.5	72.6	58.0		22.5
	Ethion	72.5	110	119		7.74
	Ethoprop	88.3	102	109		6.54
	Etridiazole	68.7	75.6	70.5		6.97
	Fenamiphos	64.5	76.2	75.0		1.60
	Fenbuconazole	130	76.4	53.1		35.9
	Fenpropathrin	66.1	61.0	53.2		13.7
	Fipronil	86.9	62.6	42.9		37.4
	Fipronil Desulfinyl	86.3	91.1	82.1		10.3
	Fipronil Sulfide	89.3	73.0	70.4		3.64
	Fipronil Sulfone	83.2	90.8	68.3		28.4
	Fluazifop-P-butyl	67.6	107	96.3		10.5
	Fludioxonil	67.5	91.4	71.2		24.9
	Flumioxazin	39.8	140	93.7		39.4
	Flutolanil	56.2	85.2	79.8		6.53
	Fluxapyroxad	63.6	168	32.6		135
	Fonofos	92.5	108	102		5.15
	Gamma-BHC	102	99.9	94.7		5.37
	Gamma-Chlordane	58.9	61.9	50.3		20.6
	Heptachlor	66.8	64.2	56.8		12.2
	Heptachlor Epoxide	87.8	80.1	72.6		9.91
	Hexabromobenzene	110	112	88.1		23.7
	Hexachlorobenzene	59.6	51.8	41.1		23.2
	Hexazinone	91.0	103	101		2.49
	Imazalil	50.2	63.7	56.8		11.4
	Iprodione	118	23.1	22.6		2.14
	Kepone	149	64.8	119		59.2
	Lambda-Cyhalothrin	54.1	48.6	50.0		2.90
	Loratadine	51.6	187	116		47.1
	Malathion	120	79.7	76.3		4.27
	Metalaxyl	95.4	117	110		6.49
	Methoprene	43.0	43.7	36.1		19.0
	Methoxychlor	74.8	65.0	62.0		4.71
	Metolachlor	88.9	74.7	81.5		8.73
	Metribuzin	94.2	143	117		20.2
	Mevinphos	67.7	74.7	84.5		12.3
	MGK-264	82.6	77.8	76.4		1.78
	Mirex	41.5	43.6	34.7		22.7
	Molinate	63.1	76.7	74.4		2.95
	Myclobutanil	83.8	108	87.8		20.7
	Naled	37.3	49.7	49.7		0.0511
	Napropamide	71.3	105	75.5		32.4
	Norflurazon	64.8	110	75.8		36.6
	Octinoxate	135	159	218		28.3
	Oxadiazon	125	91.0	69.1		27.4
	Oxybenzone	86.7	89.3	88.6		0.672
	Oxychlordane	62.7	66.2	53.6		20.9
	Oxyfluorfen	90.8	92.1	87.4		5.22
	Parathion Ethyl	83.2	106	99.9		6.02
	Parathion Methyl	85.3	118	119		0.477

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	PBB-153	129	130	116		11.0
	PBDE-47	95.5	91.1	76.5		17.4
	PBDE-99	104	98.0	71.0		31.9
	PCB-1016	75.0	77.2	71.1		8.23
	PCB-1260	67.6	71.0	64.9		8.93
	Pendimethalin	115	117	117		0.107
	Pentabromotoluene	89.3	91.5	84.9		7.45
	Permethrin	60.9	52.7	53.0		0.474
	Phenothrin	45.7	44.9	48.6		8.04
	Phenytain	51.8	138	137		0.931
	Phorate	93.9	131	126		3.73
	Piperonyl Butoxide	80.9	73.0	60.9		18.0
	Prallethrin	62.5	67.3	52.8		24.2
	Prodiamine	65.1	65.4	68.5		4.62
	Prometon	99.2	131	117		11.6
	Prometryn	115	157	139		12.1
	Pronamide	99.7	118	95.0		21.7
	Propanil	91.5	124	115		6.84
	Propargite	44.2	78.5	62.6		22.6
	Propiconazole	62.7	85.9	63.4		30.1
	Pyraflufen Ethyl	87.4	89.3	66.0		30.1
	Pyridaben	114	68.5	45.4		40.6
	Pyriproxyfen	147	74.3	54.8		30.2
	Simazine	67.6	88.7	88.6		0.0793
	Stirophos	53.9	65.7	42.3		43.3
	Sulfentrazone	49.4	115	58.1		65.9
	Tau-Fluvalinate	60.2	51.1	61.4		18.4
	Tebuconazole	50.2	90.3	58.0		43.5
	Terbufos	123	138	131		4.92
	Terbutylazine	71.6	92.6	84.4		9.26
	Tetradecachloro-m-terphenyl	156	202	156		25.3
	Tetramethrin	74.0	69.3	68.8		0.727
	Thiobencarb	92.9	118	101		15.6
	Trans-Nonachlor	60.6	60.6	50.2		18.9
	Tri-o-cresyl Phosphate	93.0	92.5	86.2		7.07
	Triadimefon	99.4	104	83.1		22.6
	Triclosan Methyl	67.0	71.4	53.0		29.5
	Trifluralin	70.7	69.0	58.3		16.8
	Tris(1-chloro-2-propyl) phosphate (TCPP)	50.9	48.1	49.8		3.35
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	80.6	82.2	69.7		16.5
	Tris(2-chloroethyl) phosphate (TCEP)	79.2	79.4	75.2		5.46
EPA 8276	Chlordane	74.5	77.6	77.2		0.611
	Toxaphene	78.5	92.8	95.5		2.82

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2402828
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2402827
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2402828

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8270E	PCBs in water matrices by GC/MS/MS	2402827
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2402827

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	04/25/2023	04/27/2023 08:00	Fe-Val Siddell	05/01/2023 22:52	Michael Poppell	2402827
	04/25/2023	04/27/2023 08:00	Fe-Val Siddell	05/05/2023 03:54	Michael Poppell	2402827
	04/25/2023	05/01/2023 08:00	Rasheda Ghaffari	05/05/2023 18:33	Vandana T. Nagar	2402828
	04/25/2023	05/01/2023 08:00	Rasheda Ghaffari	05/05/2023 23:21	Arthur Maknenko	2402828
	04/25/2023	05/01/2023 08:00	Rasheda Ghaffari	05/12/2023 20:29	Vandana T. Nagar	2402828
EPA 8276	04/25/2023	04/27/2023 08:00	Fe-Val Siddell	05/03/2023 05:37	Lipi Saha	2402827