

Chemical Analysis Report

CEN-DIST-2023-08-23-02

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

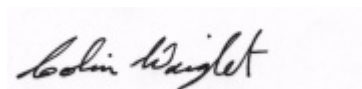
Event Description: **Run 17**
Request ID: **RQ-2023-08-21-32**
Customer: **CEN-DIST**
Project ID: **SMP**

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

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 20-SEP-2023 10:04



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: 08/22/2023 09:19

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433172	EPA 8321B	Aldicarb	0.020	U	ug/L	P434372	
		Aldicarb Sulfone	0.0020	U	ug/L	P434372	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P434372	MS
		Carbaryl	0.0020	U	ug/L	P434372	
		Carbofuran	0.0020	U	ug/L	P434372	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P434372	MS, RPD
		Methiocarb	0.0020	U	ug/L	P434372	
		Methomyl	0.0020	U	ug/L	P434372	
		Oxamyl	0.0020	U	ug/L	P434372	
		Propoxur	0.0020	U	ug/L	P434372	
2433173		2,4-D	0.074		ug/L	P434430	
		Acesulfame K	0.38	I	ug/L	P434207	
		2,4,5-T	0.0040	U	ug/L	P434430	
		AMPA	0.13	I	ug/L	P434207	
		Acetaminophen	0.023	I	ug/L	P434430	
		Endothall	0.25	U	ug/L	P434207	
		Acetamiprid	0.0020	U	ug/L	P434430	MS, RPD
		Glufosinate	0.10	U	ug/L	P434207	
		Glyphosate	0.21	I	ug/L	P434207	
		Afidopyropen	0.0020	U	ug/L	P434430	
		Bentazon	0.31		ug/L	P434430	
		Sucralose	1.2		ug/L	P434207	
		Benzovindiflupyr	0.0020	U	ug/L	P434430	
		Carbamazepine	8.0E-04	U	ug/L	P434430	
		Clothianidin	0.0043	I	ug/L	P434430	
		Dinotefuran	0.0020	U	ug/L	P434430	
		Diuron	0.025		ug/L	P434430	
		Fenuron	0.032	U	ug/L	P434430	
		Fluridone	0.0089		ug/L	P434430	
		Imazapyr	0.076		ug/L	P434430	
		Hydrocodone	0.0020	U	ug/L	P434430	
		Ibuprofen	0.080	U	ug/L	P434430	
		Imidacloprid	0.016		ug/L	P434430	
		Linuron	0.0040	U	ug/L	P434430	
		Mandestrobin	0.0020	U	ug/L	P434430	
		MCPP	0.0050	I	ug/L	P434430	
		Naproxen	0.0080	U	ug/L	P434430	
		Primidone	0.0040	U	ug/L	P434430	
		Pyraclostrobin	0.0020	U	ug/L	P434430	
		Silvex	0.0040	U	ug/L	P434430	
		Thiamethoxam	0.0020	U	ug/L	P434430	
		Tolfenpyrad	0.0020	U	ug/L	P434430	
		Triclopyr	0.0040	U	ug/L	P434430	
2433175	EPA 8270E	Aldrin	0.69	U	ng/L	P434297	

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433175	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P434297	
		Alpha-Chlordane	0.21	U	ng/L	P434297	
		PCB-1016	2.1	U	ng/L	P434297	
		Beta-BHC	0.11	U	ng/L	P434297	
		PCB-1221	2.1	U	ng/L	P434297	
		Beta-Cyfluthrin	1.3	U	ng/L	P434297	
		PCB-1232	2.1	U	ng/L	P434297	
		Bifenthrin	0.53	U	ng/L	P434297	
		PCB-1242	2.1	U	ng/L	P434297	
		PCB-1248	2.1	U	ng/L	P434297	
		Chlorothalonil	3.8	U	ng/L	P434297	
		PCB-1254	2.1	U	ng/L	P434297	
		Cis-Nonachlor	0.21	U	ng/L	P434297	
		PCB-1260	2.1	U	ng/L	P434297	
		Cypermethrin	1.6	U	ng/L	P434297	
		Dacthal	0.16	U	ng/L	P434297	
		DDD-p,p'	0.26	U	ng/L	P434297	
		DDE-p,p'	0.21	U	ng/L	P434297	
		DDT-p,p'	6.6	VJ	ng/L	P434297	LCS, MS
		Delta-BHC	0.42	U	ng/L	P434297	
		Deltamethrin	1.3	U	ng/L	P434297	
		Dichlobenil	0.26	U	ng/L	P434297	
		Dicofol	1.3	U	ng/L	P434297	
		Dieldrin	0.42	U	ng/L	P434297	
		Endosulfan I	0.42	U	ng/L	P434297	
		Endosulfan II	0.95	U	ng/L	P434297	
		Endosulfan Sulfate	0.32	U	ng/L	P434297	
		Endrin	0.95	U	ng/L	P434297	
		Endrin Aldehyde	0.79	U	ng/L	P434297	
		Endrin Ketone	0.42	U	ng/L	P434297	
		Esfenvalerate	0.79	UJ	ng/L	P434297	MS
		Ethalfuralin	0.16	U	ng/L	P434297	
		Fenpropathrin	0.26	U	ng/L	P434297	
		Gamma-BHC	0.13	U	ng/L	P434297	
		Gamma-Chlordane	0.21	U	ng/L	P434297	
		Heptachlor	0.21	U	ng/L	P434297	
		Heptachlor Epoxide	0.26	U	ng/L	P434297	
		Hexachlorobenzene**	1.1	U	ng/L	P434297	
		Kepone	14	U	ng/L	P434297	
		Lambda-Cyhalothrin	0.79	U	ng/L	P434297	
		Methoprene	0.79	U	ng/L	P434297	
		Methoxychlor	0.32	U	ng/L	P434297	
		MGK-264	0.21	U	ng/L	P434297	
		Mirex	0.37	U	ng/L	P434297	
		Oxychlordane	0.32	U	ng/L	P434297	

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433175	EPA 8270E	Permethrin	1.7	U	ng/L	P434297	
		Phenothrin	0.95	U	ng/L	P434297	
		Piperonyl Butoxide	0.16	U	ng/L	P434297	
		Prallethrin	2.1	UJ	ng/L	P434297	CCV
		Tau-Fluvalinate	0.26	UJ	ng/L	P434297	MS
		Tetramethrin	0.79	U	ng/L	P434297	
		Trans-Nonachlor	0.21	U	ng/L	P434297	
		Triclosan Methyl	0.16	U	ng/L	P434297	
		Trifluralin	0.21	U	ng/L	P434297	
		Chlordane	2.1	U	ng/L	P434297	
2433176	EPA 8270E	Toxaphene	16	U	ng/L	P434297	
		Oxybenzone**	10	U	ng/L	P434276	
		Acetochlor	0.20	U	ng/L	P434276	
		Octinoxate**	150	U	ng/L	P434276	
		Alachlor	0.41	U	ng/L	P434276	
		Avobenzone**	100	U	ng/L	P434276	
		Ametryn	2.8	I J	ng/L	P434276	CCV
		Atrazine	15		ng/L	P434276	
		PBDE-47**	4.1	U	ng/L	P434276	RPD
		Atrazine Desethyl	2.3	I	ng/L	P434276	
		PBDE-99**	5.1	U	ng/L	P434276	RPD
		Azinphos Methyl	3.1	U	ng/L	P434276	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P434276	
		Azoxystrobin	0.41	U	ng/L	P434276	
		Bromacil	0.61	U	ng/L	P434276	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P434276	
		Butylate	0.20	U	ng/L	P434276	
		Dechlorane Plus**	31	U	ng/L	P434276	MS
		Caffeine**	24	I	ng/L	P434276	
		Dechlorane 602**	5.1	U	ng/L	P434276	MS, RPD
		Carbophenothion	0.51	U	ng/L	P434276	MS
		Dechlorane 603**	4.1	U	ng/L	P434276	MS, RPD
		Carfentrazone Ethyl	0.15	U	ng/L	P434276	
		Hexabromobenzene**	6.1	U	ng/L	P434276	
		Chlorfenapyr	0.31	U	ng/L	P434276	
		PBB-153**	8.2	U	ng/L	P434276	MS, RPD
		Chlorpyrifos Ethyl	0.31	U	ng/L	P434276	
		Pentabromotoluene**	3.1	U	ng/L	P434276	
		Chlorpyrifos Methyl	0.10	U	ng/L	P434276	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P434276	
		Coumaphos	1.1	U	ng/L	P434276	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	52		ng/L	P434276	
		Cyanazine	5.1	U	ng/L	P434276	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.2	I	ng/L	P434276	

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433176	EPA 8270E	Cyprodinil	0.20	U	ng/L	P434276	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P434276	MS, RPD
		Demeton	3.6	U	ng/L	P434276	
		Diazinon	0.13	U	ng/L	P434276	
		Difenoconazole	0.61	U	ng/L	P434276	MS, RPD
		Dimethenamid	0.10	U	ng/L	P434276	MS, RPD
		Dimethomorph	0.31	UJ	ng/L	P434276	LCS, RPD
		Disulfoton	0.61	U	ng/L	P434276	
		Dithiopyr	1.0	U	ng/L	P434276	RPD
		EPTC	0.51	U	ng/L	P434276	
		Ethion	0.31	U	ng/L	P434276	MS, RPD
		Ethoprop	0.13	U	ng/L	P434276	
		Etridiazole	0.10	U	ng/L	P434276	
		Fenamiphos	0.46	U	ng/L	P434276	
		Fenbuconazole	0.51	U	ng/L	P434276	MS, RPD
		Fipronil	0.78	I	ng/L	P434276	RPD
		Fipronil DesulfinyI**	0.92	J	ng/L	P434276	CCV
		Fipronil Sulfide	1.9		ng/L	P434276	
		Fipronil Sulfone	2.4		ng/L	P434276	
		Fluazifop-P-butyl	0.10	U	ng/L	P434276	MS
		Fludioxonil	0.10	U	ng/L	P434276	
		Flumioxazin	3.1	U	ng/L	P434276	RPD
		Flutolanil	0.10	U	ng/L	P434276	
		Fluxapyroxad	0.26	U	ng/L	P434276	MS, RPD
		Fonofos	0.15	U	ng/L	P434276	
		Hexazinone	0.51	U	ng/L	P434276	
		Imazalil	0.66	U	ng/L	P434276	
		Iprodione	0.51	U	ng/L	P434276	
		Loratadine**	0.31	U	ng/L	P434276	RPD
		Malathion	0.36	U	ng/L	P434276	
		Metalaxyl	0.51	U	ng/L	P434276	
		Metolachlor	0.77	U	ng/L	P434276	
		Metribuzin	0.41	U	ng/L	P434276	
		Mevinphos	1.0	U	ng/L	P434276	RPD
		Molinate	0.26	U	ng/L	P434276	
		Myclobutanil	0.36	U	ng/L	P434276	MS, RPD
		Naled	2.6	U	ng/L	P434276	
		Napropamide	0.72	U	ng/L	P434276	MS, RPD
		Norflurazon	1.0	U	ng/L	P434276	MS, RPD
		Oxadiazon	1.8		ng/L	P434276	RPD
		Oxyfluorfen	0.20	U	ng/L	P434276	
		Parathion Ethyl	0.15	U	ng/L	P434276	
		Parathion Methyl	0.20	UJ	ng/L	P434276	LCS
		Pendimethalin	0.77	U	ng/L	P434276	
		Phenytain**	5.4	U	ng/L	P434276	

Field ID: G2CE0271

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433176	EPA 8270E	Phorate	0.26	UJ	ng/L	P434276	LCS
		Prodiamine	0.20	U	ng/L	P434276	
		Prometon	3.1	U	ng/L	P434276	
		Prometryn	0.36	UJ	ng/L	P434276	CCV, MS
		Pronamide	0.10	U	ng/L	P434276	
		Propanil	0.10	U	ng/L	P434276	
		Propargite	0.82	U	ng/L	P434276	
		Propiconazole	0.61	UJ	ng/L	P434276	LCS
		Pyraflufen Ethyl	0.31	U	ng/L	P434276	RPD
		Pyridaben	1.4	U	ng/L	P434276	RPD
		Pyriproxyfen	0.26	U	ng/L	P434276	MS, RPD
		Simazine	0.26	U	ng/L	P434276	
		Stirophos	0.41	U	ng/L	P434276	RPD
		Sulfentrazone	19		ng/L	P434276	MS, RPD
		Tebuconazole	1.4	U	ng/L	P434276	MS, RPD
		Terbufos	0.20	U	ng/L	P434276	
		Terbutylazine	0.20	U	ng/L	P434276	MS
		Thiobencarb	0.51	U	ng/L	P434276	RPD
		Triadimefon	0.15	U	ng/L	P434276	MS, RPD

Ref. Method and Comment:
 EPA 8270E: V - Due to the presence of DDT-p,p' in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.
 EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: GEE CREEK AT SR HWY 419

Collection Date/Time: 08/22/2023 10:00

Field ID: G2CE0075

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433174	EPA 8321B	2,4-D	0.34		ug/L	P434430	
		Acesulfame K	0.20	I	ug/L	P434207	
		2,4,5-T	0.0040	U	ug/L	P434430	
		AMPA	0.24	I	ug/L	P434207	
		Acetaminophen	0.0080	U	ug/L	P434430	
		Endothall	0.25	U	ug/L	P434207	
		Acetamiprid	0.0020	U	ug/L	P434430	MS, RPD
		Glufosinate	0.10	U	ug/L	P434207	
		Glyphosate	0.47		ug/L	P434207	
		Afidopyropen	0.0020	U	ug/L	P434430	
		Bentazon	0.057		ug/L	P434430	
		Sucralose	2.2		ug/L	P434207	
		Benzovindiflupyr	0.0020	U	ug/L	P434430	
		Carbamazepine	0.0015	I	ug/L	P434430	
		Clothianidin	0.0086		ug/L	P434430	
		Dinotefuran	0.0020	U	ug/L	P434430	
		Diuron	0.015		ug/L	P434430	
		Fenuron	0.032	U	ug/L	P434430	
		Fluridone	0.0058		ug/L	P434430	
		Imazapyr	0.032		ug/L	P434430	
		Hydrocodone	0.0020	U	ug/L	P434430	
		Ibuprofen	0.080	U	ug/L	P434430	
		Imidacloprid	0.014		ug/L	P434430	
		Linuron	0.0040	U	ug/L	P434430	
		Mandestrobin	0.0020	U	ug/L	P434430	
		MCPP	0.013		ug/L	P434430	
		Naproxen	0.021	I	ug/L	P434430	
		Primidone	0.0043	I	ug/L	P434430	
		Pyraclostrobin	0.0020	U	ug/L	P434430	
		Silvex	0.0040	U	ug/L	P434430	
		Thiamethoxam	0.0020	U	ug/L	P434430	
		Tolfenpyrad	0.0020	U	ug/L	P434430	
		Triclopyr	0.0040	U	ug/L	P434430	
2433177	EPA 8270E	Aldrin	0.66	U	ng/L	P434297	
		Alpha-BHC	0.10	U	ng/L	P434297	
		Alpha-Chlordane	0.20	U	ng/L	P434297	
		PCB-1016	2.0	U	ng/L	P434297	
		Beta-BHC	0.10	U	ng/L	P434297	
		PCB-1221	2.0	U	ng/L	P434297	
		Beta-Cyfluthrin	1.3	U	ng/L	P434297	
		PCB-1232	2.0	U	ng/L	P434297	
		Bifenthrin	0.51	U	ng/L	P434297	
		PCB-1242	2.0	U	ng/L	P434297	
		Carbophenothion	0.92	U	ng/L	P434297	

Field ID: G2CE0075

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433177	EPA 8270E	PCB-1248	2.0	U	ng/L	P434297	
		Chlorothalonil	3.7	U	ng/L	P434297	
		PCB-1254	2.0	U	ng/L	P434297	
		Cis-Nonachlor	0.20	U	ng/L	P434297	
		PCB-1260	2.0	U	ng/L	P434297	
		Cypermethrin	1.5	U	ng/L	P434297	
		Dacthal	0.15	U	ng/L	P434297	
		DDD-p,p'	0.87	I	ng/L	P434297	
		DDE-p,p'	0.20	U	ng/L	P434297	
		DDT-p,p'	7.2	VJ	ng/L	P434297	LCS, MS
		Delta-BHC	0.41	U	ng/L	P434297	
		Deltamethrin	1.3	U	ng/L	P434297	
		Dichlobenil	0.26	U	ng/L	P434297	
		Dicofol	1.3	U	ng/L	P434297	
		Dieldrin	0.41	U	ng/L	P434297	
		Endosulfan I	0.41	U	ng/L	P434297	
		Endosulfan II	0.92	U	ng/L	P434297	
		Endosulfan Sulfate	0.31	U	ng/L	P434297	
		Endrin	0.92	U	ng/L	P434297	
		Endrin Aldehyde	0.77	U	ng/L	P434297	
		Endrin Ketone	0.41	U	ng/L	P434297	
		Esfenvalerate	0.77	U	ng/L	P434297	MS
		Ethalfuralin	0.15	U	ng/L	P434297	
		Fenpropathrin	0.26	U	ng/L	P434297	
		Gamma-BHC	0.13	U	ng/L	P434297	
		Gamma-Chlordane	0.20	U	ng/L	P434297	
		Heptachlor	0.20	U	ng/L	P434297	
		Heptachlor Epoxide	0.26	U	ng/L	P434297	
		Hexachlorobenzene**	1.0	U	ng/L	P434297	
		Kepone	14	U	ng/L	P434297	
		Lambda-Cyhalothrin	0.77	U	ng/L	P434297	
		Methoprene	0.77	U	ng/L	P434297	
		Methoxychlor	0.31	U	ng/L	P434297	
		MGK-264	0.20	U	ng/L	P434297	
		Mirex	0.36	U	ng/L	P434297	
		Oxychlordane	0.31	U	ng/L	P434297	
		Permethrin	1.6	U	ng/L	P434297	
		Phenothrin	0.92	U	ng/L	P434297	
		Piperonyl Butoxide	0.15	U	ng/L	P434297	
		Prallethrin	2.0	UJ	ng/L	P434297	CCV
		Tau-Fluvalinate	0.26	U	ng/L	P434297	MS
		Tetramethrin	0.77	U	ng/L	P434297	
		Trans-Nonachlor	0.20	U	ng/L	P434297	
		Triclosan Methyl	0.15	U	ng/L	P434297	
		Trifluralin	0.20	U	ng/L	P434297	

Field ID: G2CE0075

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433177	EPA 8276	Chlordane	2.0	U	ng/L	P434297	
		Toxaphene	15	U	ng/L	P434297	

Ref. Method and Comment:
EPA 8270E: V - Due to the presence of DDT-p,p' 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: P434276

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: P434276

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: P434276

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: P434276

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: P434297

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: P434297

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'	4.2	U	ng/L
DDT-p,p'	3.9	I	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: P434297

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: P434297

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: P434207

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: P434372

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

Reference Method: EPA 8321B

Batch ID: P434430

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P434430

Component	Result	Code	Units
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCP	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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.4		P	42 - 162
Acetochlor	82.6		P	69 - 123
Alachlor	96.4		P	65 - 118
Ametryn	127		P	58 - 141
Atrazine	101		P	73 - 118
Atrazine Desethyl	74.4		P	32 - 125
Avobenzone	126		P	40 - 203
Azinphos Methyl	117		P	36 - 197
Azoxystrobin	109		P	58 - 226
Bromacil	88.8		P	48 - 120
Butylate	64.0		P	27 - 85.0
Caffeine	90.7		P	40 - 137
Carbophenothion	108		P	54 - 132
Carfentrazone Ethyl	108		P	60 - 142
Chlorfenapyr	91.4		P	53 - 117
Chlorpyrifos Ethyl	84.8		P	59 - 116
Chlorpyrifos Methyl	76.9		P	66 - 119
Coumaphos	159		P	11 - 234
Cyanazine	121		P	61 - 248
Cyprodinil	61.7		P	50 - 147
Dechlorane 602	66.0		P	50 - 150
Dechlorane 603	91.1		P	50 - 150
Dechlorane Plus	73.5		P	47 - 182
Demeton	67.4		P	30 - 138
Diazinon	101		P	67 - 126
Difenoconazole	118		P	38 - 205
Dimethenamid	58.9		P	57 - 111
Dimethomorph	219		F	16 - 212
Disulfoton	123		P	46 - 126
Dithiopyr	75.4		P	62 - 115
EPTC	60.3		P	28 - 80.0
Ethion	69.9		P	24 - 122
Ethoprop	105		P	62 - 113
Etridiazole	70.9		P	28 - 92.0
Fenamiphos	93.8		P	57 - 128
Fenbuconazole	114		P	52 - 155
Fipronil	105		P	63 - 130
Fipronil Desulfinyl	70.0		P	61 - 130
Fipronil Sulfide	94.5		P	56 - 117
Fipronil Sulfone	88.3		P	52 - 118
Fluazifop-P-butyl	77.0		P	61 - 128
Fludioxonil	72.8		P	59 - 129
Flumioxazin	128		P	30 - 250
Flutolanil	89.7		P	53 - 127
Fluxapyroxad	82.2		P	42 - 132
Fonofos	84.3		P	61 - 110
Hexabromobenzene	103		P	50 - 150
Hexazinone	93.4		P	46 - 139
Imazalil	97.4		P	40 - 139
Iprodione	80.1		P	40 - 146
Loratadine	215		P	10 - 224
Malathion	108		P	61 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	89.7		P	58 - 121
Metolachlor	100		P	64 - 118
Metribuzin	94.4		P	45 - 245
Mevinphos	111		P	49 - 118
Molinate	59.4		P	42 - 92.0
Myclobutanil	99.7		P	55 - 127
Naled	47.9		P	10 - 114
Napropamide	78.7		P	39 - 121
Norflurazon	86.9		P	55 - 129
Octinoxate	108		P	26 - 166
Oxadiazon	84.7		P	54 - 115
Oxybenzone	124		P	49 - 135
Oxyfluorfen	121		P	64 - 139
Parathion Ethyl	96.4		P	70 - 111
Parathion Methyl	72.0		F	76 - 136
PBB-153	141		P	50 - 150
PBDE-47	93.7		P	41 - 148
PBDE-99	81.6		P	38 - 147
Pendimethalin	66.2		P	52 - 118
Pentabromotoluene	99.8		P	50 - 150
Phenytol	43.4		P	10 - 162
Phorate	153		F	40 - 122
Prodiamine	35.1		P	26 - 141
Prometon	103		P	54 - 122
Prometryn	75.9		P	61 - 128
Pronamide	110		P	72 - 121
Propanil	129		P	45 - 144
Propargite	67.4		P	10 - 199
Propiconazole	48.9		F	56 - 127
Pyraflufen Ethyl	83.0		P	56 - 140
Pyridaben	144		P	26 - 211
Pyriproxyfen	94.1		P	33 - 194
Simazine	107		P	67 - 121
Stirophos	26.4		P	20 - 142
Sulfentrazone	41.7		P	21 - 144
Tebuconazole	46.4		P	10 - 122
Terbufos	123		P	60 - 129
Terbuthylazine	86.4		P	69 - 113
Tetradecachloro-m-terphenyl	98.4		P	70 - 200
Thiobencarb	90.8		P	51 - 120
Tri-o-cresyl Phosphate	101		P	49 - 150
Triadimefon	95.2		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	132		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	116		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P434297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	55.1		P	30 - 96.0
Alpha-BHC	79.5		P	70 - 109

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P434297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	70.3		P	45 - 107
Beta-BHC	71.3		P	64 - 138
Beta-Cyfluthrin	83.6		P	17 - 141
Bifenthrin	69.8		P	10 - 113
Carbophenothion	48.6		P	24 - 91.0
Chlorothalonil	81.5		P	26 - 180
Cis-Nonachlor	80.4		P	37 - 102
Cypermethrin	72.0		P	20 - 133
Dacthal	84.7		P	69 - 114
DDD-p,p'	57.4		P	42 - 105
DDE-p,p'	54.4		P	42 - 106
DDT-p,p'	129		F	42 - 107
Delta-BHC	90.9		P	67 - 144
Deltamethrin	110		P	15 - 149
Dichlobenil	72.5		P	46 - 117
Dicofol	71.2		P	34 - 114
Dieldrin	55.7		P	50 - 108
Endosulfan I	70.4		P	55 - 104
Endosulfan II	80.2		P	51 - 111
Endosulfan Sulfate	71.5		P	56 - 121
Endrin	54.7		P	10 - 106
Endrin Aldehyde	51.4		P	34 - 114
Endrin Ketone	70.0		P	63 - 177
Esfenvalerate	138		P	29 - 143
Ethalfuralin	75.2		P	46 - 96.0
Fenpropathrin	67.5		P	28 - 115
Gamma-BHC	81.3		P	65 - 121
Gamma-Chlordane	59.6		P	39 - 103
Heptachlor	72.6		P	39 - 94.0
Heptachlor Epoxide	68.0		P	54 - 104
Hexachlorobenzene	76.6		P	36 - 100
Kepone	79.9		P	10 - 225
Lambda-Cyhalothrin	73.0		P	10 - 135
Methoprene	57.5		P	10 - 109
Methoxychlor	68.7		P	52 - 112
MGK-264	84.4		P	44 - 117
Mirex	49.4		P	20 - 90.0
Oxychlordane	94.4		P	44 - 102
PCB-1016	88.0		P	45 - 107
PCB-1260	76.9		P	40 - 118
Permethrin	57.4		P	18 - 135
Phenothrin	75.5		P	10 - 102
Piperonyl Butoxide	109		P	28 - 156
Prallethrin	80.8		P	28 - 113
Tau-Fluvalinate	118		P	10 - 123
Tetramethrin	77.4		P	18 - 158
Trans-Nonachlor	62.3		P	39 - 104
Triclosan Methyl	62.8		P	54 - 108
Trifluralin	78.2		P	46 - 97.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P434297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.6		P	52 - 117
Toxaphene	90.3		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P434207

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	117		P	40 - 150
AMPA	129		P	40 - 150
Endothall	92.7		P	40 - 150
Glufosinate	96.1		P	40 - 150
Glyphosate	71.8		P	40 - 150
Sucralose	123		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P434372

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	43.2		P	40 - 150
Aldicarb	47.8		P	30 - 150
Aldicarb Sulfone	86.2		P	40 - 150
Aldicarb Sulfoxide	87.9		P	40 - 150
Carbaryl	63.7		P	40 - 150
Carbofuran	76.5		P	40 - 150
Methiocarb	65.3		P	40 - 150
Methomyl	82.1		P	40 - 150
Oxamyl	90.8		P	40 - 150
Propoxur	85.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P434430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.2		P	40 - 150
2,4,5-T	79.6		P	40 - 150
Acetaminophen	89.5		P	30 - 150
Acetamiprid	106		P	40 - 150
Afidopyropen	74.7		P	30 - 150
Bentazon	111		P	30 - 150
Benzovindiflupyr	96.1		P	40 - 150
Carbamazepine	93.2		P	40 - 150
Clothianidin	102		P	40 - 150
Dinotefuran	96.4		P	40 - 150
Diuron	84.8		P	40 - 150
Fenuron	106		P	40 - 150
Fluridone	89.6		P	40 - 150
Hydrocodone	110		P	40 - 150
Ibuprofen	78.7		P	40 - 150
Imazapyr	77.2		P	40 - 150
Imidacloprid	89.3		P	40 - 150
Linuron	78.2		P	40 - 150
Mandestrobin	105		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P434430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCP	87.5		P	40 - 150
Naproxen	55.3		P	40 - 150
Primidone	94.4		P	40 - 150
Pyraclostrobin	95.2		P	40 - 150
Silvex	80.9		P	40 - 150
Thiamethoxam	104		P	40 - 150
Tolfenpyrad	60.0		P	30 - 150
Triclopyr	84.0		P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433663	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	56.2	45.9	P/P	26 - 165
2433663	Acetochlor	69.2	80.4	P/P	67 - 124
2433663	Alachlor	78.6	80.4	P/P	60 - 120
2433663	Ametryn	117	125	P/P	54 - 216
2433663	Atrazine	67.5	70.6	P/P	66 - 128
2433663	Atrazine Desethyl	55.2	70.3	P/P	15 - 122
2433663	Avobenzone	56.2	59.3	P/P	37 - 178
2433663	Azinphos Methyl	68.2	99.7	P/P	40 - 292
2433663	Azoxystrobin	65.1	96.1	P/P	35 - 220
2433663	Bromacil	65.0	74.9	P/P	45 - 127
2433663	Butylate	64.0	57.7	P/P	20 - 83.0
2433663	Caffeine	98.6	99.0	P/P	10 - 194
2433663	Carbophenothion	54.8	59.0	F/P	57 - 127
2433663	Carfentrazone Ethyl	62.7	79.4	P/P	51 - 141
2433663	Chlorfenapyr	49.9	50.0	P/P	46 - 111
2433663	Chlorpyrifos Ethyl	92.7	77.2	P/P	52 - 120
2433663	Chlorpyrifos Methyl	77.5	96.1	P/P	63 - 119
2433663	Coumaphos	86.2	100	P/P	10 - 228
2433663	Cyanazine	65.5	103	P/P	59 - 241
2433663	Cyprodinil	68.0	79.6	P/P	47 - 146
2433663	Dechlorane 602	20.9	41.1	F/F	50 - 150
2433663	Dechlorane 603	37.9	55.5	F/P	50 - 150
2433663	Dechlorane Plus	36.2	47.1	F/F	50 - 150
2433663	Demeton	80.7	73.3	P/P	40 - 136
2433663	Diazinon	83.2	97.5	P/P	69 - 132
2433663	Difenoconazole	35.4	102	F/P	57 - 258
2433663	Dimethenamid	56.9	135	P/F	54 - 110
2433663	Dimethomorph	76.7	181	P/P	28 - 210
2433663	Disulfoton	102	86.1	P/P	43 - 133
2433663	Dithiopyr	70.8	106	P/P	39 - 116
2433663	EPTC	61.9	52.8	P/P	20 - 78.0
2433663	Ethion	4.88	39.2	F/P	17 - 119
2433663	Ethoprop	106	88.5	P/P	66 - 120
2433663	Etridiazole	64.2	51.2	P/P	28 - 96.0
2433663	Fenamiphos	70.6	67.5	P/P	41 - 126
2433663	Fenbuconazole	18.9	55.3	F/P	42 - 169
2433663	Fipronil	64.5	114	P/P	61 - 132
2433663	Fipronil Desulfinyl	59.3	78.5	P/P	56 - 132
2433663	Fipronil Sulfide	57.2	74.7	P/P	48 - 119
2433663	Fipronil Sulfone	58.2	68.1	P/P	42 - 131
2433663	Fluazifop-P-butyl	58.2	43.6	P/F	53 - 131
2433663	Fludioxonil	68.5	65.1	P/P	56 - 127
2433663	Flumioxazin	39.0	135	P/P	19 - 300
2433663	Flutolanil	54.3	68.4	P/P	41 - 127
2433663	Fluxapyroxad	23.7	46.4	F/P	42 - 172
2433663	Fonofos	87.4	83.2	P/P	59 - 113
2433663	Hexabromobenzene	51.1	63.7	P/P	50 - 150
2433663	Hexazinone	81.5	94.8	P/P	66 - 122
2433663	Imazalil	60.6	61.8	P/P	21 - 283
2433663	Iprodione	62.6	73.1	P/P	43 - 150
2433663	Loratadine	61.8	146	P/P	23 - 201
2433663	Malathion	63.3	84.9	P/P	58 - 136

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433663	Metalaxyl	82.6	81.8	P/P	55 - 120
2433663	Metolachlor	73.4	102	P/P	57 - 121
2433663	Metribuzin	75.7	59.7	P/P	58 - 294
2433663	Mevinphos	86.5	64.2	P/P	50 - 126
2433663	Molinate	61.4	67.0	P/P	42 - 93.0
2433663	Myclobutanil	21.6	73.6	F/P	55 - 125
2433663	Naled	51.0	44.4	P/P	18 - 200
2433663	Napropamide	5.83	66.7	F/P	39 - 110
2433663	Norflurazon	36.9	53.1	F/P	48 - 128
2433663	Octinoxate	57.2	67.1	P/P	21 - 159
2433663	Oxadiazon	57.2	96.8	P/P	43 - 112
2433663	Oxybenzone	76.2	85.8	P/P	41 - 142
2433663	Oxyfluorfen	69.3	77.7	P/P	64 - 153
2433663	Parathion Ethyl	79.6	96.7	P/P	69 - 114
2433663	Parathion Methyl	86.2	112	P/P	79 - 139
2433663	PBB-153	35.7	53.0	F/P	50 - 150
2433663	PBDE-47	31.3	57.4	P/P	27 - 144
2433663	PBDE-99	23.2	49.6	P/P	18 - 150
2433663	Pendimethalin	74.1	93.6	P/P	50 - 139
2433663	Pentabromotoluene	53.4	59.3	P/P	50 - 150
2433663	Phenytoin	27.3	27.7	P/P	10 - 146
2433663	Phorate	132	116	P/P	54 - 161
2433663	Prodiamine	34.3	32.8	P/P	30 - 161
2433663	Prometon	111	104	P/P	45 - 134
2433663	Prometryn	124	153	P/F	45 - 137
2433663	Pronamide	84.4	99.8	P/P	65 - 133
2433663	Propanil	133	128	P/P	49 - 142
2433663	Propargite	33.9	48.1	P/P	10 - 203
2433663	Propiconazole	43.0	46.0	P/P	38 - 146
2433663	Pyraflufen Ethyl	41.4	77.6	P/P	34 - 153
2433663	Pyridaben	73.5	105	P/P	12 - 192
2433663	Pyriproxyfen	25.8	67.6	F/P	33 - 180
2433663	Simazine	92.7	102	P/P	51 - 157
2433663	Stirophos	16.9	59.4	P/P	10 - 128
2433663	Sulfentrazone	34.2	77.8	F/P	53 - 186
2433663	Tebuconazole	8.04	36.7	F/P	10 - 133
2433663	Terbufos	117	117	P/P	65 - 139
2433663	Terbutylazine	55.3	70.8	F/P	66 - 117
2433663	Tetradecachloro-m-terphenyl	69.7	51.5	F/F	70 - 200
2433663	Thiobencarb	56.6	76.2	P/P	51 - 119
2433663	Tri-o-cresyl Phosphate	54.4	68.5	P/P	31 - 144
2433663	Triadimefon	42.7	83.0	F/P	48 - 119
2433663	Tris(1-chloro-2-propyl) phosphate (TCPP)	97.3	104	P/P	50 - 150
2433663	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	60.9	76.3	P/P	50 - 150
2433663	Tris(2-chloroethyl) phosphate (TCEP)	92.0	97.4	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P434297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433024	PCB-1016	72.4	68.0	P/P	45 - 107
2433024	PCB-1260	57.9	60.3	P/P	40 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P434297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433175	Aldrin	51.0	50.1	P/P	24 - 81.0
2433175	Alpha-BHC	65.7	67.7	P/P	65 - 110
2433175	Alpha-Chlordane	69.3	68.6	P/P	43 - 119
2433175	Beta-BHC	67.3	60.7	P/P	54 - 165
2433175	Beta-Cyfluthrin	105	117	P/P	27 - 165
2433175	Bifenthrin	103	98.0	P/P	17 - 117
2433175	Carbophenothion	56.9	56.7	P/P	21 - 108
2433175	Chlorothalonil	86.8	89.9	P/P	10 - 255
2433175	Cis-Nonachlor	69.0	80.0	P/P	34 - 98.0
2433175	Cypermethrin	105	117	P/P	25 - 143
2433175	Dacthal	69.0	62.0	P/P	55 - 139
2433175	DDD-p,p'	68.8	66.9	P/P	30 - 109
2433175	DDE-p,p'	57.0	52.1	P/P	35 - 106
2433175	DDT-p,p'	158	170	F/F	41 - 101
2433175	Delta-BHC	75.7	74.1	P/P	58 - 165
2433175	Deltamethrin	170	191	P/P	10 - 194
2433175	Dichlobenil	40.8	38.7	P/P	22 - 114
2433175	Dicofol	72.5	73.9	P/P	17 - 133
2433175	Dieldrin	54.5	51.3	P/P	45 - 129
2433175	Endosulfan I	70.3	61.5	P/P	49 - 104
2433175	Endosulfan II	53.1	55.0	P/P	37 - 117
2433175	Endosulfan Sulfate	60.4	53.0	P/P	38 - 128
2433175	Endrin	52.3	52.2	P/P	35 - 116
2433175	Endrin Aldehyde	41.4	19.1	P/P	19 - 108
2433175	Endrin Ketone	64.5	53.6	P/P	44 - 134
2433175	Esfenvalerate	165	180	P/F	27 - 176
2433175	Ethalfuralin	71.2	67.3	P/P	49 - 100
2433175	Fenpropathrin	79.8	72.8	P/P	34 - 117
2433175	Gamma-BHC	81.3	80.9	P/P	59 - 129
2433175	Gamma-Chlordane	71.0	65.1	P/P	33 - 107
2433175	Heptachlor	73.2	65.7	P/P	37 - 94.0
2433175	Heptachlor Epoxide	61.1	61.5	P/P	38 - 118
2433175	Hexachlorobenzene	69.0	64.5	P/P	35 - 97.0
2433175	Kepone	55.9	59.9	P/P	10 - 221
2433175	Lambda-Cyhalothrin	107	123	P/P	23 - 190
2433175	Methoprene	79.0	69.8	P/P	21 - 109
2433175	Methoxychlor	61.0	62.2	P/P	46 - 118
2433175	MGK-264	72.1	68.9	P/P	39 - 122
2433175	Mirex	51.1	53.5	P/P	25 - 90.0
2433175	Oxychlordane	85.7	87.5	P/P	42 - 100
2433175	Permethrin	101	91.8	P/P	33 - 181
2433175	Phenothrin	100	83.4	P/P	12 - 125
2433175	Piperonyl Butoxide	112	106	P/P	10 - 178
2433175	Prallethrin	74.4	68.4	P/P	24 - 122
2433175	Tau-Fluvalinate	152	171	F/F	13 - 151
2433175	Tetramethrin	89.1	87.1	P/P	16 - 172
2433175	Trans-Nonachlor	80.8	65.4	P/P	39 - 100
2433175	Triclosan Methyl	61.3	57.6	P/P	43 - 110
2433175	Trifluralin	78.4	71.9	P/P	45 - 94.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P434297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433024	Chlordane	65.3	63.4	P/P	43 - 123
2433024	Toxaphene	77.4	72.6	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P434207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432732	Acesulfame K	122	126	P/P	40 - 150
2432732	AMPA	101	106	P/P	40 - 150
2432732	Endothall	90.8	93.2	P/P	40 - 150
2432732	Glufosinate	87.8	82.4	P/P	40 - 150
2432732	Glyphosate	68.9	66.1	P/P	40 - 150
2432732	Sucralose	125	123	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P434372

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433691	3-Hydroxycarbofuran	56.2	25.8	P/F	40 - 150
2433691	Aldicarb	62.7	48.7	P/P	30 - 150
2433691	Aldicarb Sulfone	90.9	85.6	P/P	40 - 150
2433691	Aldicarb Sulfoxide	30.6	25.0	F/F	40 - 150
2433691	Carbaryl	67.8	63.5	P/P	40 - 150
2433691	Carbofuran	63.7	59.5	P/P	40 - 150
2433691	Methiocarb	71.2	61.1	P/P	40 - 150
2433691	Methomyl	72.0	70.3	P/P	40 - 150
2433691	Oxamyl	78.4	76.1	P/P	40 - 150
2433691	Propoxur	66.8	62.8	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P434430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432763	2,4-D	108	107	P/P	40 - 150
2432763	2,4,5-T	116	123	P/P	40 - 150
2432763	Acetaminophen	117	115	P/P	30 - 150
2432763	Acetamiprid	30.9	52.2	F/P	40 - 150
2432763	Afidopyropen	42.5	54.7	P/P	30 - 150
2432763	Bentazon	61.3	61.5	P/P	30 - 150
2432763	Benzovindiflupyr	97.0	93.2	P/P	40 - 150
2432763	Carbamazepine	70.9	66.1	P/P	40 - 150
2432763	Clothianidin	97.0	99.9	P/P	40 - 150
2432763	Dinotefuran	70.8	69.2	P/P	40 - 150
2432763	Diuron	56.8	57.4	P/P	40 - 150
2432763	Fenuron	53.1	53.9	P/P	40 - 150
2432763	Fluridone	69.7	66.4	P/P	40 - 150
2432763	Hydrocodone	70.8	72.5	P/P	40 - 150
2432763	Ibuprofen	79.8	71.2	P/P	40 - 150
2432763	Imazapyr	69.2	68.8	P/P	40 - 150
2432763	Imidacloprid	119	114	P/P	40 - 150
2432763	Linuron	63.0	69.1	P/P	40 - 150
2432763	Mandestrobin	103	96.6	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P434430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432763	MCP	127	120	P/P	40 - 150
2432763	Naproxen	88.4	84.3	P/P	40 - 150
2432763	Primidone	80.5	81.8	P/P	40 - 150
2432763	Pyraclostrobin	94.6	92.1	P/P	40 - 150
2432763	Silvex	122	123	P/P	40 - 150
2432763	Thiamethoxam	86.9	86.1	P/P	40 - 150
2432763	Tolfenpyrad	60.4	56.0	P/P	30 - 150
2432763	Triclopyr	125	124	P/P	40 - 150

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P434276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433663	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.0	Spike	P	0 - 37
2433663	Acetochlor	14.1	Spike	P	0 - 28
2433663	Alachlor	2.27	Spike	P	0 - 30
2433663	Ametryn	6.23	Spike	P	0 - 32
2433663	Atrazine	4.09	Spike	P	0 - 41
2433663	Atrazine Desethyl	21.0	Spike	P	0 - 36
2433663	Avobenzone	5.46	Spike	P	0 - 36
2433663	Azinphos Methyl	37.6	Spike	P	0 - 75
2433663	Azoxystrobin	38.4	Spike	P	0 - 39
2433663	Bromacil	14.2	Spike	P	0 - 33
2433663	Butylate	10.5	Spike	P	0 - 44
2433663	Caffeine	0.352	Spike	P	0 - 74
2433663	Carbophenothion	6.43	Spike	P	0 - 25
2433663	Carfentrazone Ethyl	23.5	Spike	P	0 - 27
2433663	Chlorfenapyr	0.0782	Spike	P	0 - 24
2433663	Chlorpyrifos Ethyl	18.2	Spike	P	0 - 26
2433663	Chlorpyrifos Methyl	21.5	Spike	P	0 - 26
2433663	Coumaphos	15.0	Spike	P	0 - 28
2433663	Cyanazine	44.8	Spike	P	0 - 48
2433663	Cyprodinil	15.7	Spike	P	0 - 29
2433663	Dechlorane 602	65.0	Spike	F	0 - 30
2433663	Dechlorane 603	37.8	Spike	F	0 - 30
2433663	Dechlorane Plus	26.3	Spike	P	0 - 30
2433663	Demeton	9.66	Spike	P	0 - 33
2433663	Diazinon	15.8	Spike	P	0 - 29
2433663	Difenoconazole	84.7	Spike	F	0 - 34
2433663	Dimethenamid	81.3	Spike	F	0 - 39
2433663	Dimethomorph	73.0	Spike	F	0 - 51
2433663	Disulfoton	16.7	Spike	P	0 - 30
2433663	Dithiopyr	40.1	Spike	F	0 - 26
2433663	EPTC	15.8	Spike	P	0 - 43
2433663	Ethion	156	Spike	F	0 - 79
2433663	Ethoprop	18.0	Spike	P	0 - 29
2433663	Etridiazole	22.6	Spike	P	0 - 33
2433663	Fenamiphos	4.46	Spike	P	0 - 40
2433663	Fenbuconazole	78.7	Spike	F	0 - 74
2433663	Fipronil	50.0	Spike	F	0 - 29
2433663	Fipronil Desulfinyl	25.3	Spike	P	0 - 32
2433663	Fipronil Sulfide	24.2	Spike	P	0 - 30
2433663	Fipronil Sulfone	12.9	Spike	P	0 - 33
2433663	Fluazifop-P-butyl	24.6	Spike	P	0 - 38
2433663	Fludioxonil	5.10	Spike	P	0 - 29
2433663	Flumioxazin	110	Spike	F	0 - 51
2433663	Flutolanil	23.0	Spike	P	0 - 25
2433663	Fluxapyroxad	64.8	Spike	F	0 - 45
2433663	Fonofos	4.90	Spike	P	0 - 27
2433663	Hexabromobenzene	21.9	Spike	P	0 - 30
2433663	Hexazinone	15.1	Spike	P	0 - 30
2433663	Imazalil	2.01	Spike	P	0 - 100
2433663	Iprodione	15.4	Spike	P	0 - 33
2433663	Loratadine	73.0	Spike	F	0 - 56

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P434276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433663	Malathion	29.1	Spike	P	0 - 37
2433663	Metalaxyl	1.05	Spike	P	0 - 40
2433663	Metolachlor	28.0	Spike	P	0 - 29
2433663	Metribuzin	23.7	Spike	P	0 - 45
2433663	Mevinphos	29.5	Spike	F	0 - 29
2433663	Molinate	8.71	Spike	P	0 - 33
2433663	Myclobutanil	109	Spike	F	0 - 26
2433663	Naled	13.8	Spike	P	0 - 37
2433663	Napropamide	168	Spike	F	0 - 44
2433663	Norflurazon	35.9	Spike	F	0 - 30
2433663	Octinoxate	15.9	Spike	P	0 - 45
2433663	Oxadiazon	51.5	Spike	F	0 - 28
2433663	Oxybenzone	11.8	Spike	P	0 - 46
2433663	Oxyfluorfen	11.4	Spike	P	0 - 28
2433663	Parathion Ethyl	19.4	Spike	P	0 - 31
2433663	Parathion Methyl	26.1	Spike	P	0 - 29
2433663	PBB-153	39.0	Spike	F	0 - 30
2433663	PBDE-47	58.8	Spike	F	0 - 36
2433663	PBDE-99	72.4	Spike	F	0 - 40
2433663	Pendimethalin	23.2	Spike	P	0 - 33
2433663	Pentabromotoluene	10.4	Spike	P	0 - 30
2433663	Phenytol	1.62	Spike	P	0 - 100
2433663	Phorate	13.1	Spike	P	0 - 36
2433663	Prodiamine	4.24	Spike	P	0 - 71
2433663	Prometon	6.67	Spike	P	0 - 36
2433663	Prometryn	20.6	Spike	P	0 - 28
2433663	Pronamide	16.8	Spike	P	0 - 24
2433663	Propanil	4.18	Spike	P	0 - 28
2433663	Propargite	34.8	Spike	P	0 - 43
2433663	Propiconazole	6.82	Spike	P	0 - 33
2433663	Pyraflufen Ethyl	60.8	Spike	F	0 - 29
2433663	Pyridaben	35.5	Spike	F	0 - 30
2433663	Pyriproxyfen	89.7	Spike	F	0 - 79
2433663	Simazine	9.74	Spike	P	0 - 29
2433663	Stirophos	112	Spike	F	0 - 61
2433663	Sulfentrazone	64.4	Spike	F	0 - 33
2433663	Tebuconazole	128	Spike	F	0 - 69
2433663	Terbufos	0.314	Spike	P	0 - 29
2433663	Terbuthylazine	22.9	Spike	P	0 - 32
2433663	Tetradecachloro-m-terphenyl	30.1	Spike	F	0 - 30
2433663	Thiobencarb	29.5	Spike	F	0 - 26
2433663	Tri-o-cresyl Phosphate	23.0	Spike	P	0 - 33
2433663	Triadimefon	64.0	Spike	F	0 - 28
2433663	Tris(1-chloro-2-propyl) phosphate (TCPP)	6.72	Spike	P	0 - 30
2433663	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	22.4	Spike	P	0 - 30
2433663	Tris(2-chloroethyl) phosphate (TCEP)	5.77	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P434297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433024	PCB-1016	6.15	Spike	P	0 - 25
2433024	PCB-1260	4.06	Spike	P	0 - 30
2433175	Aldrin	1.75	Spike	P	0 - 41
2433175	Alpha-BHC	2.98	Spike	P	0 - 25
2433175	Alpha-Chlordane	0.985	Spike	P	0 - 32
2433175	Beta-BHC	10.3	Spike	P	0 - 33
2433175	Beta-Cyfluthrin	11.2	Spike	P	0 - 43
2433175	Bifenthrin	4.66	Spike	P	0 - 52
2433175	Carbophenothion	0.348	Spike	P	0 - 30
2433175	Chlorothalonil	3.52	Spike	P	0 - 82
2433175	Cis-Nonachlor	14.8	Spike	P	0 - 33
2433175	Cypermethrin	10.7	Spike	P	0 - 51
2433175	Dacthal	10.7	Spike	P	0 - 27
2433175	DDD-p,p'	2.84	Spike	P	0 - 39
2433175	DDE-p,p'	9.06	Spike	P	0 - 31
2433175	DDT-p,p'	4.54	Spike	P	0 - 29
2433175	Delta-BHC	2.10	Spike	P	0 - 35
2433175	Deltamethrin	11.6	Spike	P	0 - 100
2433175	Dichlobenil	5.37	Spike	P	0 - 40
2433175	Dicofol	1.86	Spike	P	0 - 37
2433175	Dieldrin	6.08	Spike	P	0 - 27
2433175	Endosulfan I	13.4	Spike	P	0 - 23
2433175	Endosulfan II	3.55	Spike	P	0 - 34
2433175	Endosulfan Sulfate	13.0	Spike	P	0 - 36
2433175	Endrin	0.280	Spike	P	0 - 45
2433175	Endrin Aldehyde	73.5	Spike	P	0 - 76
2433175	Endrin Ketone	18.5	Spike	P	0 - 43
2433175	Esfenvalerate	8.89	Spike	P	0 - 51
2433175	Ethalfuralin	5.65	Spike	P	0 - 22
2433175	Fenpropathrin	9.15	Spike	P	0 - 49
2433175	Gamma-BHC	0.488	Spike	P	0 - 28
2433175	Gamma-Chlordane	8.68	Spike	P	0 - 40
2433175	Heptachlor	10.7	Spike	P	0 - 29
2433175	Heptachlor Epoxide	0.678	Spike	P	0 - 33
2433175	Hexachlorobenzene	6.76	Spike	P	0 - 36
2433175	Kepone	6.85	Spike	P	0 - 85
2433175	Lambda-Cyhalothrin	14.3	Spike	P	0 - 55
2433175	Methoprene	12.4	Spike	P	0 - 53
2433175	Methoxychlor	1.88	Spike	P	0 - 50
2433175	MGK-264	4.64	Spike	P	0 - 43
2433175	Mirex	4.42	Spike	P	0 - 40
2433175	Oxychlordane	2.09	Spike	P	0 - 31
2433175	Permethrin	9.08	Spike	P	0 - 50
2433175	Phenothrin	18.1	Spike	P	0 - 58
2433175	Piperonyl Butoxide	5.28	Spike	P	0 - 100
2433175	Prallethrin	8.34	Spike	P	0 - 39
2433175	Tau-Fluvalinate	11.7	Spike	P	0 - 54
2433175	Tetramethrin	2.27	Spike	P	0 - 51
2433175	Trans-Nonachlor	21.1	Spike	P	0 - 39
2433175	Triclosan Methyl	6.29	Spike	P	0 - 31
2433175	Trifluralin	8.72	Spike	P	0 - 22

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P434297

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433024	Chlordane	2.96	Spike	P	0 - 28
2433024	Toxaphene	6.44	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P434207

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432732	Acesulfame K	3.26	Spike	P	0 - 30
2432732	AMPA	4.72	Spike	P	0 - 30
2432732	Endothall	2.60	Spike	P	0 - 30
2432732	Glufosinate	6.29	Spike	P	0 - 30
2432732	Glyphosate	4.11	Spike	P	0 - 30
2432732	Sucralose	1.79	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P434372

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433691	3-Hydroxycarbofuran	74.2	Spike	F	0 - 30
2433691	Aldicarb	25.0	Spike	P	0 - 30
2433691	Aldicarb Sulfone	6.03	Spike	P	0 - 30
2433691	Aldicarb Sulfoxide	20.2	Spike	P	0 - 30
2433691	Carbaryl	6.52	Spike	P	0 - 30
2433691	Carbofuran	6.82	Spike	P	0 - 30
2433691	Methiocarb	15.3	Spike	P	0 - 30
2433691	Methomyl	2.41	Spike	P	0 - 30
2433691	Oxamyl	2.95	Spike	P	0 - 30
2433691	Propoxur	6.14	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P434430

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432763	2,4-D	1.44	Spike	P	0 - 30
2432763	2,4,5-T	5.74	Spike	P	0 - 30
2432763	Acetaminophen	1.10	Spike	P	0 - 30
2432763	Acetamiprid	51.2	Spike	F	0 - 30
2432763	Afidopyropen	25.2	Spike	P	0 - 30
2432763	Bentazon	0.269	Spike	P	0 - 30
2432763	Benzovindiflupyr	3.92	Spike	P	0 - 30
2432763	Carbamazepine	7.00	Spike	P	0 - 30
2432763	Clothianidin	3.01	Spike	P	0 - 30
2432763	Dinotefuran	2.31	Spike	P	0 - 30
2432763	Diuron	1.18	Spike	P	0 - 30
2432763	Fenuron	1.61	Spike	P	0 - 30
2432763	Fluridone	4.83	Spike	P	0 - 30
2432763	Hydrocodone	2.39	Spike	P	0 - 30
2432763	Ibuprofen	11.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432763	Imazapyr	0.579	Spike	P	0 - 30
2432763	Imidacloprid	4.62	Spike	P	0 - 30
2432763	Linuron	9.16	Spike	P	0 - 30
2432763	Mandestrobin	5.94	Spike	P	0 - 30
2432763	MCPP	5.99	Spike	P	0 - 30
2432763	Naproxen	4.80	Spike	P	0 - 30
2432763	Primidone	1.61	Spike	P	0 - 30
2432763	Pyraclostrobin	2.72	Spike	P	0 - 30
2432763	Silvex	0.987	Spike	P	0 - 30
2432763	Thiamethoxam	0.908	Spike	P	0 - 30
2432763	Tolfenpyrad	7.54	Spike	P	0 - 30
2432763	Triclopyr	0.682	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2433172
Field Sample ID: G2CE0271

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	50.8	P	30 - 160

Lab Sample ID: 2433173
Field Sample ID: G2CE0271

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	107	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	70.4	P	30 - 160
EPA 8321B	Diuron-d6	44.8	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	75.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	70.6	P	30 - 160
EPA 8321B	Primidone-d5	62.8	P	30 - 160
EPA 8321B	Sucralose-d6	128	P	30 - 160

Lab Sample ID: 2433174
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	107	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	66.3	P	30 - 160
EPA 8321B	Diuron-d6	42.6	P	30 - 160
EPA 8321B	Endothall-d6	106	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	62.6	P	30 - 160
EPA 8321B	Primidone-d5	74.2	P	30 - 160
EPA 8321B	Sucralose-d6	146	P	30 - 160

Lab Sample ID: 2433175
Field Sample ID: G2CE0271

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	90.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	69.2	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	44.3	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	54.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	68.3	P	28 - 102
EPA 8276	PCNB	78.2	P	49 - 115

Lab Sample ID: 2433176
Field Sample ID: G2CE0271

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	59.1	P	20 - 200
EPA 8270E	Simazine-d10	72.0	P	62 - 142
EPA 8270E	Terbufos-d10	94.5	P	58 - 132
EPA 8270E	Terphenyl-d14	80.8	P	52 - 137

Quality Assurance Report Surrogates

Lab Sample ID: 2433177
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	87.8	P	37 - 129
EPA 8270E	Decachlorobiphenyl	70.1	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	55.6	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	61.5	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	73.6	P	28 - 102
EPA 8276	PCNB	90.2	P	49 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A121277

Included Lab Sample IDs: 2433173, 2433174

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	103	105	P/P	60 - 160
Endothall	93.9	93.5	P/P	60 - 160
Glufosinate	102	99.0	P/P	60 - 160
Glyphosate	98.4	94.2	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121324

Included Lab Sample IDs: 2433172

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	104	101	P/P	60 - 150
Aldicarb	92.0	84.8	P/P	60 - 150
Aldicarb Sulfone	105	101	P/P	50 - 150
Aldicarb Sulfoxide	101	108	P/P	50 - 150
Carbaryl	97.8	101	P/P	60 - 150
Carbofuran	110	110	P/P	50 - 150
Methiocarb	108	105	P/P	50 - 150
Methomyl	101	106	P/P	50 - 150
Oxamyl	107	106	P/P	50 - 150
Propoxur	119	119	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A121341

Included Lab Sample IDs: 2433176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.5		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane 602	94.4		P	80 - 120
Dechlorane 603	92.6		P	80 - 120
Dechlorane Plus	95.8		P	80 - 120
Hexabromobenzene	93.8		P	80 - 120
Octinoxate	91.4		P	80 - 120
Oxybenzone	95.9		P	80 - 120
PBB-153	91.7		P	80 - 120
PBDE-47	91.7		P	80 - 120
PBDE-99	92.3		P	80 - 120
Pentabromotoluene	93.2		P	80 - 120
Tetradecachloro-m-terphenyl	101		P	80 - 120
Tri-o-cresyl Phosphate	95.3		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.5		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	92.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	100		P	80 - 120

Reference Method: EPA 8276

Run ID: A121343

Included Lab Sample IDs: 2433175, 2433177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.3		P	80 - 120
Toxaphene	89.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A121350

Included Lab Sample IDs: 2433173, 2433174

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	87.8	91.0	P/P	50 - 150
2,4,5-T	85.7	79.1	P/P	50 - 150
Acetaminophen	102	107	P/P	60 - 160
Acetamiprid	125	128	P/P	50 - 150
Afidopyropen	104	112	P/P	50 - 150
Bentazon	142	138	P/P	50 - 160
Bentazon	145	145	P/P	50 - 160
Benzovindiflupyr	113	119	P/P	50 - 150
Carbamazepine	117	129	P/P	60 - 150
Clothianidin	113	120	P/P	60 - 150
Dinotefuran	108	113	P/P	50 - 150
Diuron	111	111	P/P	60 - 160
Fenuron	117	118	P/P	60 - 150
Fluridone	110	111	P/P	60 - 160
Hydrocodone	130	135	P/P	60 - 150
Ibuprofen	122	101	P/P	50 - 160
Imazapyr	93.0	89.2	P/P	50 - 150
Imidacloprid	104	104	P/P	60 - 150
Linuron	100	108	P/P	60 - 150
Mandestrobin	123	127	P/P	50 - 150
MCPP	85.3	90.3	P/P	50 - 150
Naproxen	111	63.4	P/P	50 - 160
Primidone	108	105	P/P	60 - 150
Pyraclostrobin	120	124	P/P	60 - 150
Silvex	89.4	85.8	P/P	50 - 150
Thiamethoxam	125	122	P/P	50 - 150
Tolfenpyrad	105	106	P/P	60 - 150
Triclopyr	84.9	87.4	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A121366

Included Lab Sample IDs: 2433175, 2433177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.7		P	80 - 120
Alpha-BHC	92.8		P	80 - 120
Alpha-Chlordane	105		P	80 - 120
Beta-BHC	116		P	80 - 120
Beta-Cyfluthrin	89.6		P	80 - 120
Bifenthrin	107		P	80 - 120
Carbophenothion	87.2		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	103		P	80 - 120
Cypermethrin	93.9		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	99.7		P	80 - 120
DDE-p,p'	96.3		P	80 - 120
DDT-p,p'	92.3		P	80 - 120
Delta-BHC	97.7		P	80 - 120
Deltamethrin	119		P	80 - 120
Dichlobenil	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A121366

Included Lab Sample IDs: 2433175, 2433177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dicofol	97.1		P	80 - 120
Dieldrin	94.5		P	80 - 120
Endosulfan I	99.1		P	80 - 120
Endosulfan II	92.7		P	80 - 120
Endosulfan Sulfate	103		P	80 - 120
Endrin	90.8		P	80 - 120
Endrin Aldehyde	110		P	80 - 120
Endrin Ketone	116		P	80 - 120
Esfenvalerate	115		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	113		P	80 - 120
Gamma-BHC	115		P	80 - 120
Gamma-Chlordane	94.4		P	80 - 120
Heptachlor	87.9		P	80 - 120
Heptachlor Epoxide	110		P	80 - 120
Hexachlorobenzene	99.6		P	80 - 120
Kepone	110		P	80 - 120
Lambda-Cyhalothrin	118		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	95.0		P	80 - 120
MGK-264	104		P	80 - 120
Mirex	92.7		P	80 - 120
Oxychlordane	110		P	80 - 120
Permethrin	87.2		P	80 - 120
Phenothrin	87.2		P	80 - 120
Piperonyl Butoxide	108		P	80 - 120
Prallethrin	122*		F	80 - 120
Tau-Fluvalinate	110		P	80 - 120
Tetramethrin	89.8		P	80 - 120
Trans-Nonachlor	117		P	80 - 120
Triclosan Methyl	95.0		P	80 - 120
Trifluralin	106		P	80 - 120

Reference Method: EPA 8270E

Run ID: A121388

Included Lab Sample IDs: 2433175, 2433177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	94.5		P	80 - 120

Reference Method: EPA 8270E

Run ID: A121608

Included Lab Sample IDs: 2433176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	91.3		P	80 - 120
Alachlor	82.9		P	80 - 120
Ametryn	78.7*		F	80 - 120
Atrazine	91.3		P	80 - 120
Atrazine Desethyl	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121608
Included Lab Sample IDs: 2433176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azinphos Methyl	94.2		P	80 - 120
Azoxystrobin	104		P	80 - 120
Bromacil	106		P	80 - 120
Butylate	97.5		P	80 - 120
Caffeine	88.4		P	80 - 120
Carbophenothion	99.9		P	80 - 120
Carfentrazone Ethyl	98.7		P	80 - 120
Chlorfenapyr	86.4		P	80 - 120
Chlorpyrifos Ethyl	92.1		P	80 - 120
Chlorpyrifos Methyl	95.1		P	80 - 120
Coumaphos	91.5		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	109		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	108		P	80 - 120
Dimethenamid	98.7		P	80 - 120
Dimethomorph	87.8		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	106		P	80 - 120
EPTC	99.8		P	80 - 120
Ethion	90.9		P	80 - 120
Ethoprop	105		P	80 - 120
Etridiazole	98.2		P	80 - 120
Fenamiphos	92.3		P	80 - 120
Fenbuconazole	82.1		P	80 - 120
Fipronil	86.3		P	80 - 120
Fipronil Desulfinyl	74.9*		F	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	96.0		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	98.7		P	80 - 120
Flumioxazin	97.8		P	80 - 120
Flutolanil	103		P	80 - 120
Fluxapyroxad	98.8		P	80 - 120
Fonofos	94.8		P	80 - 120
Hexazinone	99.3		P	80 - 120
Imazalil	104		P	80 - 120
Iprodione	85.2		P	80 - 120
Loratadine	85.2		P	80 - 120
Malathion	90.2		P	80 - 120
Metalaxyl	85.7		P	80 - 120
Metolachlor	98.5		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	91.3		P	80 - 120
Molinate	86.5		P	80 - 120
Myclobutanil	95.4		P	80 - 120
Naled	106		P	80 - 120
Napropamide	98.8		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	96.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121608
Included Lab Sample IDs: 2433176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxyfluorfen	96.1		P	80 - 120
Parathion Ethyl	94.0		P	80 - 120
Parathion Methyl	87.4		P	80 - 120
Pendimethalin	100		P	80 - 120
Phenytoin	96.3		P	80 - 120
Phorate	99.1		P	80 - 120
Prodiamine	95.7		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	79.4*		F	80 - 120
Pronamide	101		P	80 - 120
Propanil	119		P	80 - 120
Propargite	104		P	80 - 120
Propiconazole	87.6		P	80 - 120
Pyraflufen Ethyl	99.9		P	80 - 120
Pyridaben	101		P	80 - 120
Pyriproxyfen	99.6		P	80 - 120
Simazine	103		P	80 - 120
Stirophos	90.3		P	80 - 120
Sulfentrazone	95.6		P	80 - 120
Tebuconazole	108		P	80 - 120
Terbufos	103		P	80 - 120
Terbuthylazine	86.9		P	80 - 120
Thiobencarb	116		P	80 - 120
Triadimefon	110		P	80 - 120

Reference Method: EPA 8321B
Run ID: P121278
Included Lab Sample IDs: 2433173, 2433174

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	131	136	P/P	60 - 160
Sucralose	128	129	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.4	45.9	56.2		20.0
	Acetochlor	82.6	69.2	80.4		14.1
	Alachlor	96.4	78.6	80.4		2.27
	Aldrin	55.1	51.0	50.1		1.75
	Alpha-BHC	79.5	65.7	67.7		2.98
	Alpha-Chlordane	70.3	69.3	68.6		0.985
	Ametryn	127	117	125		6.23
	Atrazine	101	67.5	70.6		4.09
	Atrazine Desethyl	74.4	55.2	70.3		21.0
	Avobenzone	126	59.3	56.2		5.46
	Azinphos Methyl	117	68.2	99.7		37.6
	Azoxystrobin	109	65.1	96.1		38.4
	Beta-BHC	71.3	67.3	60.7		10.3
	Beta-Cyfluthrin	83.6	105	117		11.2
	Bifenthrin	69.8	103	98.0		4.66
	Bromacil	88.8	65.0	74.9		14.2
	Butylate	64.0	64.0	57.7		10.5
	Caffeine	90.7	98.6	99.0		0.352
	Carbophenothion	108	54.8	59.0		6.43
	Carbophenothion	48.6	56.9	56.7		0.348
	Carfentrazone Ethyl	108	62.7	79.4		23.5
	Chlorfenapyr	91.4	49.9	50.0		0.0782
	Chlorothalonil	81.5	86.8	89.9		3.52
	Chlorpyrifos Ethyl	84.8	92.7	77.2		18.2
	Chlorpyrifos Methyl	76.9	77.5	96.1		21.5
	Cis-Nonachlor	80.4	69.0	80.0		14.8
	Coumaphos	159	86.2	100		15.0
	Cyanazine	121	65.5	103		44.8
	Cypermethrin	72.0	105	117		10.7
	Cyprodinil	61.7	68.0	79.6		15.7
	Dacthal	84.7	69.0	62.0		10.7
	DDD-p,p'	57.4	68.8	66.9		2.84
	DDE-p,p'	54.4	57.0	52.1		9.06
	DDT-p,p'	129	158	170		4.54
	Dechlorane 602	66.0	41.1	20.9		65.0
	Dechlorane 603	91.1	55.5	37.9		37.8
	Dechlorane Plus	73.5	47.1	36.2		26.3
	Delta-BHC	90.9	75.7	74.1		2.10
	Deltamethrin	110	170	191		11.6
	Demeton	67.4	80.7	73.3		9.66
	Diazinon	101	83.2	97.5		15.8
	Dichlobenil	72.5	40.8	38.7		5.37
	Dicofol	71.2	72.5	73.9		1.86
	Dieldrin	55.7	54.5	51.3		6.08
	Difenoconazole	118	35.4	102		84.7
	Dimethenamid	58.9	56.9	135		81.3
	Dimethomorph	219	76.7	181		73.0
	Disulfoton	123	102	86.1		16.7
	Dithiopyr	75.4	70.8	106		40.1
	Endosulfan I	70.4	70.3	61.5		13.4
	Endosulfan II	80.2	53.1	55.0		3.55
	Endosulfan Sulfate	71.5	60.4	53.0		13.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Endrin	54.7	52.3	52.2			0.280
	Endrin Aldehyde	51.4	41.4	19.1			73.5
	Endrin Ketone	70.0	64.5	53.6			18.5
	EPTC	60.3	61.9	52.8			15.8
	Esfenvalerate	138	165	180			8.89
	Ethalfuralin	75.2	71.2	67.3			5.65
	Ethion	69.9	4.88	39.2			156
	Ethoprop	105	106	88.5			18.0
	Etridiazole	70.9	64.2	51.2			22.6
	Fenamiphos	93.8	70.6	67.5			4.46
	Fenbuconazole	114	18.9	55.3			78.7
	Fenpropathrin	67.5	79.8	72.8			9.15
	Fipronil	105	64.5	114			50.0
	Fipronil Desulfinyl	70.0	59.3	78.5			25.3
	Fipronil Sulfide	94.5	57.2	74.7			24.2
	Fipronil Sulfone	88.3	68.1	58.2			12.9
	Fluazifop-P-butyl	77.0	43.6	58.2			24.6
	Fludioxonil	72.8	65.1	68.5			5.10
	Flumioxazin	128	135	39.0			110
	Flutolanil	89.7	68.4	54.3			23.0
	Fluxapyroxad	82.2	46.4	23.7			64.8
	Fonofos	84.3	83.2	87.4			4.90
	Gamma-BHC	81.3	81.3	80.9			0.488
	Gamma-Chlordane	59.6	71.0	65.1			8.68
	Heptachlor	72.6	73.2	65.7			10.7
	Heptachlor Epoxide	68.0	61.1	61.5			0.678
	Hexabromobenzene	103	63.7	51.1			21.9
	Hexachlorobenzene	76.6	69.0	64.5			6.76
	Hexazinone	93.4	94.8	81.5			15.1
	Imazalil	97.4	61.8	60.6			2.01
	Iprodione	80.1	73.1	62.6			15.4
	Kepone	79.9	55.9	59.9			6.85
	Lambda-Cyhalothrin	73.0	107	123			14.3
	Loratadine	215	146	61.8			73.0
	Malathion	108	84.9	63.3			29.1
	Metalaxyl	89.7	81.8	82.6			1.05
	Methoprene	57.5	79.0	69.8			12.4
	Methoxychlor	68.7	61.0	62.2			1.88
	Metolachlor	100	102	73.4			28.0
	Metribuzin	94.4	59.7	75.7			23.7
	Mevinphos	111	64.2	86.5			29.5
	MGK-264	84.4	72.1	68.9			4.64
	Mirex	49.4	51.1	53.5			4.42
	Molinate	59.4	67.0	61.4			8.71
	Myclobutanil	99.7	73.6	21.6			109
	Naled	47.9	44.4	51.0			13.8
	Napropamide	78.7	66.7	5.83			168
	Norflurazon	86.9	53.1	36.9			35.9
	Octinoxate	108	67.1	57.2			15.9
	Oxadiazon	84.7	96.8	57.2			51.5
	Oxybenzone	124	85.8	76.2			11.8
	Oxychlordane	94.4	85.7	87.5			2.09
	Oxyfluorfen	121	77.7	69.3			11.4
	Parathion Ethyl	96.4	96.7	79.6			19.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Parathion Methyl	72.0	112	86.2		26.1
	PBB-153	141	35.7	53.0		39.0
	PBDE-47	93.7	57.4	31.3		58.8
	PBDE-99	81.6	49.6	23.2		72.4
	PCB-1016	88.0	72.4	68.0		6.15
	PCB-1260	76.9	57.9	60.3		4.06
	Pendimethalin	66.2	93.6	74.1		23.2
	Pentabromotoluene	99.8	59.3	53.4		10.4
	Permethrin	57.4	101	91.8		9.08
	Phenothrin	75.5	100	83.4		18.1
	Phenytol	43.4	27.7	27.3		1.62
	Phorate	153	116	132		13.1
	Piperonyl Butoxide	109	112	106		5.28
	Prallethrin	80.8	74.4	68.4		8.34
	Prodiamine	35.1	32.8	34.3		4.24
	Prometon	103	104	111		6.67
	Prometryn	75.9	153	124		20.6
	Pronamide	110	99.8	84.4		16.8
	Propanil	129	128	133		4.18
	Propargite	67.4	48.1	33.9		34.8
	Propiconazole	48.9	46.0	43.0		6.82
	Pyraflufen Ethyl	83.0	77.6	41.4		60.8
	Pyridaben	144	105	73.5		35.5
	Pyriproxyfen	94.1	67.6	25.8		89.7
	Simazine	107	102	92.7		9.74
	Stirophos	26.4	59.4	16.9		112
	Sulfentrazone	41.7	77.8	34.2		64.4
	Tau-Fluvalinate	118	152	171		11.7
	Tebuconazole	46.4	36.7	8.04		128
	Terbufos	123	117	117		0.314
	Terbutylazine	86.4	70.8	55.3		22.9
	Tetradecachloro-m-terphenyl	98.4	69.7	51.5		30.1
	Tetramethrin	77.4	89.1	87.1		2.27
	Thiobencarb	90.8	76.2	56.6		29.5
	Trans-Nonachlor	62.3	80.8	65.4		21.1
	Tri-o-cresyl Phosphate	101	68.5	54.4		23.0
	Triadimefon	95.2	83.0	42.7		64.0
	Triclosan Methyl	62.8	61.3	57.6		6.29
	Trifluralin	78.2	78.4	71.9		8.72
	Tris(1-chloro-2-propyl) phosphate (TCPP)	132	97.3	104		6.72
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101	60.9	76.3		22.4
	Tris(2-chloroethyl) phosphate (TCEP)	116	97.4	92.0		5.77
EPA 8276	Chlordane	82.6	65.3	63.4		2.96
	Toxaphene	90.3	77.4	72.6		6.44
EPA 8321B	2,4-D	71.2	108	107		1.44
	2,4,5-T	79.6	116	123		5.74
	3-Hydroxycarbofuran	43.2	56.2	25.8		74.2
	Acesulfame K	117	122	126		3.26
	Acetaminophen	89.5	117	115		1.10
	Acetamiprid	106	30.9	52.2		51.2
	Afidopyropen	74.7	42.5	54.7		25.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8321B	Aldicarb	47.8	62.7	48.7		25.0
	Aldicarb Sulfone	86.2	90.9	85.6		6.03
	Aldicarb Sulfoxide	87.9	30.6	25.0		20.2
	AMPA	129	101	106		4.72
	Bentazon	111	61.3	61.5		0.269
	Benzovindiflupyr	96.1	97.0	93.2		3.92
	Carbamazepine	93.2	70.9	66.1		7.00
	Carbaryl	63.7	67.8	63.5		6.52
	Carbofuran	76.5	63.7	59.5		6.82
	Clothianidin	102	97.0	99.9		3.01
	Dinotefuran	96.4	70.8	69.2		2.31
	Diuron	84.8	56.8	57.4		1.18
	Endothall	92.7	90.8	93.2		2.60
	Fenuron	106	53.1	53.9		1.61
	Fluridone	89.6	69.7	66.4		4.83
	Glufosinate	96.1	87.8	82.4		6.29
	Glyphosate	71.8	68.9	66.1		4.11
	Hydrocodone	110	70.8	72.5		2.39
	Ibuprofen	78.7	79.8	71.2		11.3
	Imazapyr	77.2	69.2	68.8		0.579
	Imidacloprid	89.3	119	114		4.62
	Linuron	78.2	63.0	69.1		9.16
	Mandestrobin	105	103	96.6		5.94
	MCPP	87.5	127	120		5.99
	Methiocarb	65.3	71.2	61.1		15.3
	Methomyl	82.1	72.0	70.3		2.41
	Naproxen	55.3	88.4	84.3		4.80
	Oxamyl	90.8	78.4	76.1		2.95
	Primidone	94.4	80.5	81.8		1.61
	Propoxur	85.9	66.8	62.8		6.14
	Pyraclostrobin	95.2	94.6	92.1		2.72
	Silvex	80.9	122	123		0.987
	Sucralose	123	125	123		1.79
	Thiamethoxam	104	86.9	86.1		0.908
	Tolfenpyrad	60.0	60.4	56.0		7.54
	Triclopyr	84.0	125	124		0.682

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2433176
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2433175, 2433177
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2433176
EPA 8270E	PCBs in water matrices by GC/MS/MS	2433175, 2433177
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2433175, 2433177
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2433172
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2433173, 2433174

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	08/23/2023	08/28/2023 08:00	Fe-Val Siddell	09/02/2023 21:46	Arthur Maknenko	2433176
	08/23/2023	08/28/2023 08:00	Fe-Val Siddell	09/07/2023 16:10	Vandana T. Nagar	2433176
	08/23/2023	08/28/2023 08:30	Rasheda Ghaffari	09/05/2023 18:05	Vandana T. Nagar	2433175
	08/23/2023	08/28/2023 08:30	Rasheda Ghaffari	09/05/2023 21:34	Lipi Saha	2433175
	08/23/2023	08/28/2023 08:30	Rasheda Ghaffari	09/05/2023 21:52	Vandana T. Nagar	2433177
	08/23/2023	08/28/2023 08:30	Rasheda Ghaffari	09/05/2023 22:04	Lipi Saha	2433177
	08/23/2023	08/28/2023 08:30	Rasheda Ghaffari	09/02/2023 11:31	Arthur Maknenko	2433175
EPA 8276	08/23/2023	08/28/2023 08:30	Rasheda Ghaffari	09/02/2023 12:27	Arthur Maknenko	2433177
EPA 8321B	08/23/2023	08/25/2023 06:00	Hana Lee	08/25/2023 10:41	Tae K Lee	2433173
	08/23/2023	08/25/2023 06:00	Hana Lee	08/25/2023 10:55	Tae K Lee	2433174
	08/23/2023	08/25/2023 06:00	Hana Lee	08/25/2023 21:21	Tae K Lee	2433173
	08/23/2023	08/25/2023 06:00	Hana Lee	08/25/2023 21:36	Tae K Lee	2433174
	08/23/2023	08/28/2023 09:00	Hoor Shaik	08/29/2023 22:13	Juyoung Kim	2433172
	08/23/2023	08/29/2023 09:00	Hoor Shaik	09/02/2023 10:26	Juyoung Kim	2433173
	08/23/2023	08/29/2023 09:00	Hoor Shaik	09/02/2023 10:44	Juyoung Kim	2433174
	08/23/2023	08/29/2023 09:00	Hoor Shaik	09/05/2023 12:43	Juyoung Kim	2433173