Chemical Analysis Report

CEN-DIST-2023-04-04-03

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

Event Description: **Run 2**
Request ID: **RQ-2023-03-20-12**
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: 21-APR-2023 14:31

NON-CONFORMANCE REPORT INCLUDED

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: Spruce Creek at Russel Property **Collection Date/Time: 04/03/2023 12:16**

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2397861	EPA 8321B	Aldicarb	0.020	UY	ug/L	P428069	
		Aldicarb Sulfone	0.0020	UY	ug/L	P428069	
		Aldicarb Sulfoxide	0.0020	UYJ	ug/L	P428069	MS
		Carbaryl	0.0020	UY	ug/L	P428069	
		Carbofuran	0.0020	UY	ug/L	P428069	
		3-Hydroxycarbofuran	0.0020	UY	ug/L	P428069	
		Methiocarb	0.0020	UY	ug/L	P428069	
		Methomyl	0.0020	UY	ug/L	P428069	
		Oxamyl	0.0020	UY	ug/L	P428069	
		Propoxur	0.0020	UY	ug/L	P428069	
2397862		2,4-D	0.062	Y	ug/L	P428068	
		Acesulfame K	0.12	IY	ug/L	P427991	
		2,4,5-T	0.0040	UY	ug/L	P428068	
		AMPA	1.0	UY	ug/L	P427991	
		Acetaminophen	0.0080	UY	ug/L	P428068	
		Acetamiprid	0.0020	UY	ug/L	P428068	
		Endothall	0.25	UY	ug/L	P427991	
		Glufosinate	1.0	UY	ug/L	P427991	
		Glyphosate	1.0	UY	ug/L	P427991	
		Afidopyropen	0.0020	UY	ug/L	P428068	
		Bentazon	1.1	Y	ug/L	P428068	
		Sucralose	1.6	Y	ug/L	P427991	
		Benzovindiflupyr	0.0020	UY	ug/L	P428068	
		Carbamazepine	0.0020	IY	ug/L	P428068	
		Clothianidin	0.0073	IY	ug/L	P428068	
		Dinotefuran	0.0020	UY	ug/L	P428068	
		Diuron	0.0020	UY	ug/L	P428068	
		Fenuron	0.032	UY	ug/L	P428068	
		Fluridone	0.078	Y	ug/L	P428068	
		Imazapyr	0.089	Y	ug/L	P428068	
		Hydrocodone	0.0020	UY	ug/L	P428068	
		Ibuprofen	0.080	UY	ug/L	P428068	
		Imidacloprid	0.0043	IY	ug/L	P428068	
		Linuron	0.0040	UY	ug/L	P428068	
		Mandestrobin	0.0020	UY	ug/L	P428068	
		MCPP	0.0022	IY	ug/L	P428068	
		Naproxen	0.0080	UY	ug/L	P428068	
		Primidone	0.0076	IY	ug/L	P428068	
		Pyraclostrobin	0.0020	UY	ug/L	P428068	
		Silvex	0.0040	UY	ug/L	P428068	
		Thiamethoxam	0.0020	UY	ug/L	P428068	
		Tolfenpyrad	0.0020	UY	ug/L	P428068	
		Triclopyr	0.0040	UY	ug/L	P428068	
2397863	EPA 8270E	Aldrin	0.66	UY	ng/L	P428223	

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2397863	EPA 8270E	Alpha-BHC	0.10	UY	ng/L	P428223	
		Alpha-Chlordane	0.20	UY	ng/L	P428223	
		PCB-1016	2.0	UY	ng/L	P428223	
		Beta-BHC	0.10	UY	ng/L	P428223	
		PCB-1221	2.0	UY	ng/L	P428223	
		Beta-Cyfluthrin	1.3	UY	ng/L	P428223	
		PCB-1232	2.0	UY	ng/L	P428223	
		Bifenthrin	0.51	UY	ng/L	P428223	
		PCB-1242	2.0	UY	ng/L	P428223	
		PCB-1248	2.0	UY	ng/L	P428223	
		Chlorothalonil	3.7	UY	ng/L	P428223	
		PCB-1254	2.0	UY	ng/L	P428223	
		Cis-Nonachlor	0.20	UY	ng/L	P428223	
		PCB-1260	2.0	UY	ng/L	P428223	
		Cypermethrin	1.5	UY	ng/L	P428223	
		Dacthal	0.15	UY	ng/L	P428223	
		DDD-p,p'	0.26	UY	ng/L	P428223	
		DDE-p,p'	0.20	UY	ng/L	P428223	
		DDT-p,p'	0.26	UY	ng/L	P428223	
		Delta-BHC	0.41	UY	ng/L	P428223	
		Deltamethrin	1.3	UY	ng/L	P428223	
		Dichlobenil	0.26	UY	ng/L	P428223	
		Dicofol	1.3	UY	ng/L	P428223	
		Dieldrin	0.41	UY	ng/L	P428223	
		Endosulfan I	0.41	UY	ng/L	P428223	
		Endosulfan II	0.41	UY	ng/L	P428223	
		Endosulfan Sulfate	0.31	UY	ng/L	P428223	
		Endrin	0.41	UY	ng/L	P428223	
		Endrin Aldehyde	0.77	UY	ng/L	P428223	
		Endrin Ketone	0.41	UY	ng/L	P428223	
		Esfenvalerate	0.77	UY	ng/L	P428223	
		Ethalfluralin	0.15	UY	ng/L	P428223	
		Fenpropathrin	0.26	UY	ng/L	P428223	
		Gamma-BHC	0.13	UY	ng/L	P428223	
		Gamma-Chlordane	0.20	UY	ng/L	P428223	
		Heptachlor	0.20	UY	ng/L	P428223	
		Heptachlor Epoxide	0.26	UY	ng/L	P428223	
		Hexachlorobenzene**	1.0	UY	ng/L	P428223	
		Kepone	5.1	UY	ng/L	P428223	
		Lambda-Cyhalothrin	0.77	UY	ng/L	P428223	
		Methoprene	0.77	UY	ng/L	P428223	
		Methoxychlor	0.31	UY	ng/L	P428223	
		MGK-264	0.20	UY	ng/L	P428223	
		Mirex	0.36	UY	ng/L	P428223	
		Oxychlordane	0.31	UY	ng/L	P428223	

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2397863	EPA 8270E	Permethrin	1.6	UY	ng/L	P428223	
		Phenothrin	0.92	UY	ng/L	P428223	
		Piperonyl Butoxide	0.15	UY	ng/L	P428223	
		Prallethrin	2.0	UY	ng/L	P428223	
		Tau-Fluvalinate	0.26	UY	ng/L	P428223	
		Tetramethrin	0.77	UY	ng/L	P428223	
		Trans-Nonachlor	0.20	UY	ng/L	P428223	
		Triclosan Methyl	0.15	UY	ng/L	P428223	
		Trifluralin	0.20	UY	ng/L	P428223	
	EPA 8276	Chlordane	2.0	UY	ng/L	P428223	
		Toxaphene	15	UY	ng/L	P428223	
2397864	EPA 8270E	Oxybenzone**	10	UY	ng/L	P427986	
		Acetochlor	0.20	UY	ng/L	P427986	
		Octinoxate**	20	UY	ng/L	P427986	
		Alachlor	0.41	UY	ng/L	P427986	
		Avobenzone**	100	UY	ng/L	P427986	
		Ametryn	1.1	UY	ng/L	P427986	
		Atrazine	46	Y	ng/L	P427986	
		PBDE-47**	4.1	UY	ng/L	P427986	
		Atrazine Desethyl	10	Y	ng/L	P427986	
		PBDE-99**	5.1	UY	ng/L	P427986	
		Azinphos Methyl	3.0	UY	ng/L	P427986	
		Tri-o-cresyl Phosphate**	6.1	UY	ng/L	P427986	
		Azoxystrobin	0.41	UY	ng/L	P427986	
		Bromacil	0.61	UY	ng/L	P427986	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UY	ng/L	P427986	RPD
		Butylate	0.20	UY	ng/L	P427986	
		Dechlorane Plus**	30	UYJ	ng/L	P427986	CCV, RPD
		Caffeine**	39	Y	ng/L	P427986	MS
		Dechlorane 602**	5.1	UY	ng/L	P427986	
		Carbophenothion	0.51	UY	ng/L	P427986	
		Dechlorane 603**	4.1	UY	ng/L	P427986	
		Carfentrazone Ethyl	0.15	UY	ng/L	P427986	
		Hexabromobenzene**	6.1	UY	ng/L	P427986	
		Chlorfenapyr	0.30	UY	ng/L	P427986	
		PBB-153**	8.1	UY	ng/L	P427986	
		Chlorpyrifos Ethyl	0.30	UY	ng/L	P427986	
		Pentabromotoluene**	3.0	UY	ng/L	P427986	
		Chlorpyrifos Methyl	0.10	UY	ng/L	P427986	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	UY	ng/L	P427986	
		Coumaphos	1.1	UY	ng/L	P427986	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	UY	ng/L	P427986	
		Cyanazine	5.1	UY	ng/L	P427986	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.5	UY	ng/L	P427986	

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2397864	EPA 8270E	Cyprodinil	0.20	UY	ng/L	P427986	
		Tetradecachloro-m-terphenyl**	7.6	UY	ng/L	P427986	RPD
		Demeton	3.6	UY	ng/L	P427986	
		Diazinon	0.13	UY	ng/L	P427986	
		Difenoconazole	0.61	UY	ng/L	P427986	
		Dimethenamid	0.10	UY	ng/L	P427986	
		Dimethomorph	0.30	UY	ng/L	P427986	
		Disulfoton	0.61	UY	ng/L	P427986	
		Dithiopyr	1.0	UY	ng/L	P427986	
		EPTC	0.51	UY	ng/L	P427986	
		Ethion	0.30	UY	ng/L	P427986	
		Ethoprop	0.13	UY	ng/L	P427986	
		Etridiazole	0.10	UY	ng/L	P427986	
		Fenamiphos	0.46	UY	ng/L	P427986	
		Fenbuconazole	0.51	UY	ng/L	P427986	
		Fipronil	0.23	IY	ng/L	P427986	
		Fipronil Desulfinyl**	0.89	Y	ng/L	P427986	
		Fipronil Sulfide	0.84	Y	ng/L	P427986	
		Fipronil Sulfone	2.8	Y	ng/L	P427986	
		Fluazifop-P-butyl	0.10	UY	ng/L	P427986	
		Fludioxonil	0.10	UY	ng/L	P427986	
		Flumioxazin	3.0	UYJ	ng/L	P427986	CCV
		Flutolanil	0.10	UY	ng/L	P427986	
		Fluxapyroxad	0.43	IY	ng/L	P427986	
		Fonofos	0.15	UY	ng/L	P427986	
		Hexazinone	0.51	UY	ng/L	P427986	
		Imazalil	0.66	UY	ng/L	P427986	
		Iprodione	0.51	UY	ng/L	P427986	
		Loratadine**	0.30	UY	ng/L	P427986	
		Malathion	0.36	UY	ng/L	P427986	
		Metalaxyl	0.51	UY	ng/L	P427986	
		Metolachlor	1.2	IY	ng/L	P427986	
		Metribuzin	0.41	UY	ng/L	P427986	
		Mevinphos	1.0	UY	ng/L	P427986	
		Molinate	0.25	UY	ng/L	P427986	
		Myclobutanil	0.41	IY	ng/L	P427986	
		Naled	2.5	UY	ng/L	P427986	
		Napropamide	0.71	UY	ng/L	P427986	
		Norflurazon	1.0	UY	ng/L	P427986	
		Oxadiazon	0.80	IY	ng/L	P427986	
		Oxyfluorfen	0.20	UY	ng/L	P427986	
		Parathion Ethyl	0.15	UY	ng/L	P427986	
		Parathion Methyl	0.20	UY	ng/L	P427986	MS
		Pendimethalin	0.76	UY	ng/L	P427986	
		Phenytoin**	5.4	UY	ng/L	P427986	

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2397864	EPA 8270E	Phorate	0.25	UY	ng/L	P427986	
		Prodiamine	0.20	UY	ng/L	P427986	
		Prometon	3.0	UY	ng/L	P427986	
		Prometryn	0.36	UY	ng/L	P427986	
		Pronamide	0.10	UY	ng/L	P427986	
		Propanil	0.10	UY	ng/L	P427986	
		Propargite	0.81	UY	ng/L	P427986	
		Propiconazole	0.61	UY	ng/L	P427986	
		Pyraflufen Ethyl	0.30	UY	ng/L	P427986	
		Pyridaben	1.4	UY	ng/L	P427986	
		Pyriproxyfen	0.25	UY	ng/L	P427986	
		Simazine	22	Y	ng/L	P427986	
		Stirophos	0.41	UY	ng/L	P427986	
		Sulfentrazone	52	Y	ng/L	P427986	
		Tebuconazole	1.4	UY	ng/L	P427986	
		Terbufos	0.20	UY	ng/L	P427986	
		Terbuthylazine	0.20	UY	ng/L	P427986	
		Thiobencarb	0.51	UY	ng/L	P427986	
		Triadimefon	0.15	UY	ng/L	P427986	

Ref. Method and Comment:
EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix. Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8270E: Y - Due to improper preservation; see NCR report.
EPA 8276: Y - Due to improper preservation; see NCR report.
EPA 8270E: Y - Due to improper preservation; see NCR report. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Y - Due to improper preservation; see NCR report.

Non-Conformance Report

NCR ID: 9814

Event(s)	Job(s)	Sample(s)	Test(s)
CEN-DIST-2023-04-04-03			

NCR Type: SHIPPING/RECEIVING **NCR Category: Preservation Not Intact**

Observation: Samples received outside the acceptable temperature range.

Resolution: Sample were logged in using SMP Protocol.
Data will be qualified as appropriate.

Authorized by/Date: Kyle Klug 4/11/2023

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P427986

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: P427986

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: P427986

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	20	U	ng/L
Octinoxate	20	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
Phenytoin	5.3	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P427986

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: P428223

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: P428223

Component	Result	Code	Units
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
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P428223

Component	Result	Code	Units
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
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: P428223

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: P427991

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: P428068

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

Reference Method: EPA 8321B
Batch ID: P428069

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P428069

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P427986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	64.3		P	42 - 162
Acetochlor	90.1		P	69 - 123
Alachlor	108		P	65 - 118
Ametryn	118		P	58 - 141
Atrazine	107		P	73 - 118
Atrazine Desethyl	102		P	32 - 125
Avobenzone	115		P	40 - 203
Azinphos Methyl	70.8		P	36 - 197
Azoxystrobin	103		P	58 - 226
Bromacil	100		P	48 - 120
Butylate	74.0		P	27 - 85.0
Caffeine	114		P	40 - 137
Carbophenothion	130		P	54 - 132
Carfentrazone Ethyl	119		P	60 - 142
Chlorfenapyr	86.9		P	53 - 117
Chlorpyrifos Ethyl	105		P	59 - 116
Chlorpyrifos Methyl	106		P	66 - 119
Coumaphos	48.4		P	11 - 234
Cyanazine	125		P	61 - 248
Cyprodinil	94.5		P	50 - 147
Dechlorane 602	69.8		P	50 - 150
Dechlorane 603	81.2		P	50 - 150
Dechlorane Plus	94.9		P	47 - 182
Demeton	97.2		P	30 - 138
Diazinon	118		P	67 - 126
Difenoconazole	80.5		P	38 - 205
Dimethenamid	105		P	57 - 111
Dimethomorph	145		P	16 - 212
Disulfoton	114		P	46 - 126
Dithiopyr	112		P	62 - 115
EPTC	79.5		P	28 - 80.0
Ethion	92.8		P	24 - 122
Ethoprop	76.2		P	62 - 113
Etridiazole	86.5		P	28 - 92.0
Fenamiphos	112		P	57 - 128
Fenbuconazole	115		P	52 - 155
Fipronil	91.9		P	63 - 130
Fipronil Desulfinyl	117		P	61 - 130
Fipronil Sulfide	95.3		P	56 - 117
Fipronil Sulfone	99.4		P	52 - 118
Fluazifop-P-butyl	68.1		P	61 - 128
Fludioxonil	123		P	59 - 129
Flumioxazin	69.4		P	30 - 250
Flutolanil	104		P	53 - 127
Fluxapyroxad	126		P	42 - 132
Fonofos	109		P	61 - 110
Hexabromobenzene	102		P	50 - 150
Hexazinone	113		P	46 - 139
Imazalil	113		P	40 - 139
Iprodione	100		P	40 - 146
Loratadine	76.7		P	10 - 224
Malathion	118		P	61 - 135

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P427986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	115		P	58 - 121
Metolachlor	117		P	64 - 118
Metribuzin	96.8		P	45 - 245
Mevinphos	84.5		P	49 - 118
Molinate	73.2		P	42 - 92.0
Myclobutanil	96.7		P	55 - 127
Naled	69.9		P	10 - 114
Napropamide	101		P	39 - 121
Norflurazon	84.6		P	55 - 129
Octinoxate	102		P	26 - 166
Oxadiazon	111		P	54 - 115
Oxybenzone	105		P	49 - 135
Oxyfluorfen	133		P	64 - 139
Parathion Ethyl	99.3		P	70 - 111
Parathion Methyl	92.8		P	76 - 136
PBB-153	78.1		P	50 - 150
PBDE-47	90.5		P	41 - 148
PBDE-99	70.5		P	38 - 147
Pendimethalin	101		P	52 - 118
Pentabromotoluene	94.1		P	50 - 150
Phenytoin	58.3		P	10 - 162
Phorate	93.6		P	40 - 122
Prodiamine	77.8		P	26 - 141
Prometon	93.9		P	54 - 122
Prometryn	127		P	61 - 128
Pronamide	114		P	72 - 121
Propanil	114		P	45 - 144
Propargite	61.5		P	10 - 199
Propiconazole	91.8		P	56 - 127
Pyraflufen Ethyl	115		P	56 - 140
Pyridaben	127		P	26 - 211
Pyriproxyfen	49.3		P	33 - 194
Simazine	116		P	67 - 121
Stirophos	94.9		P	20 - 142
Sulfentrazone	127		P	21 - 144
Tebuconazole	112		P	10 - 122
Terbufos	108		P	60 - 129
Terbuthylazine	86.6		P	69 - 113
Tetradecachloro-m-terphenyl	127		P	70 - 200
Thiobencarb	112		P	51 - 120
Tri-o-cresyl Phosphate	103		P	49 - 150
Triadimefon	97.0		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.1		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.5		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	96.9		P	70 - 180

Reference Method: EPA 8270E
Batch ID: P428223

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	44.1		P	10 - 92.0
Alpha-BHC	96.4		P	75 - 107

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P428223

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	66.8		P	50 - 108
Beta-BHC	79.8		P	36 - 138
Beta-Cyfluthrin	56.2		P	20 - 161
Bifenthrin	41.9		P	10 - 119
Chlorothalonil	80.6		P	26 - 186
Cis-Nonachlor	63.8		P	42 - 119
Cypermethrin	56.2		P	22 - 150
Dacthal	80.7		P	72 - 119
DDD-p,p'	84.3		P	45 - 107
DDE-p,p'	74.5		P	48 - 106
DDT-p,p'	81.6		P	48 - 110
Delta-BHC	82.1		P	54 - 140
Deltamethrin	71.5		P	22 - 189
Dichlobenil	70.7		P	36 - 117
Dicofol	74.0		P	46 - 155
Dieldrin	74.3		P	54 - 110
Endosulfan I	77.8		P	59 - 105
Endosulfan II	75.7		P	51 - 118
Endosulfan Sulfate	77.8		P	57 - 121
Endrin	78.1		P	10 - 120
Endrin Aldehyde	62.5		P	34 - 118
Endrin Ketone	122		P	69 - 177
Esfenvalerate	52.4		P	23 - 168
Ethalfluralin	78.0		P	49 - 99.0
Fenpropathrin	60.0		P	34 - 117
Gamma-BHC	115		P	72 - 117
Gamma-Chlordane	72.5		P	43 - 106
Heptachlor	63.5		P	41 - 98.0
Heptachlor Epoxide	70.0		P	57 - 106
Hexachlorobenzene	63.8		P	36 - 99.0
Kepone	56.2		P	16 - 215
Lambda-Cyhalothrin	45.3		P	21 - 177
Methoprene	36.7		P	10 - 119
Methoxychlor	96.9		P	60 - 112
MGK-264	60.9		P	26 - 122
Mirex	49.6		P	10 - 169
Oxychlordane	64.3		P	43 - 105
PCB-1016	59.5		P	48 - 112
PCB-1260	74.0		P	44 - 118
Permethrin	50.2		P	24 - 148
Phenothrin	39.9		P	10 - 106
Piperonyl Butoxide	58.1		P	10 - 139
Prallethrin	71.2		P	17 - 109
Tau-Fluvalinate	42.3		P	13 - 131
Tetramethrin	59.8		P	10 - 132
Trans-Nonachlor	65.0		P	44 - 106
Triclosan Methyl	81.8		P	59 - 109
Trifluralin	76.1		P	44 - 101

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P428223

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	63.9		P	61 - 116
Toxaphene	70.2		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P427991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	96.2		P	40 - 150
AMPA	123		P	40 - 150
Endothall	90.7		P	40 - 150
Glufosinate	99.3		P	40 - 150
Glyphosate	120		P	40 - 150
Sucralose	107		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P428068

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	100		P	40 - 150
2,4,5-T	100		P	40 - 150
Acetaminophen	101		P	30 - 150
Acetamiprid	85.2		P	40 - 150
Afidopyropen	68.9		P	30 - 150
Bentazon	97.9		P	30 - 150
Benzovindiflupyr	87.5		P	40 - 150
Carbamazepine	87.9		P	40 - 150
Clothianidin	91.5		P	40 - 150
Dinotefuran	98.5		P	40 - 150
Diuron	79.0		P	40 - 150
Fenuron	88.8		P	40 - 150
Fluridone	89.9		P	40 - 150
Hydrocodone	126		P	40 - 150
Ibuprofen	77.0		P	40 - 150
Imazapyr	106		P	40 - 150
Imidacloprid	87.0		P	40 - 150
Linuron	87.9		P	40 - 150
Mandestrobin	91.7		P	40 - 150
MCPP	95.2		P	40 - 150
Naproxen	75.4		P	40 - 150
Primidone	97.7		P	40 - 150
Pyraclostrobin	86.7		P	40 - 150
Silvex	108		P	40 - 150
Thiamethoxam	105		P	40 - 150
Tolfenpyrad	59.7		P	30 - 150
Triclopyr	93.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P428069

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	81.7		P	40 - 150
Aldicarb	68.6		P	30 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P428069

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfone	101		P	40 - 150
Aldicarb Sulfoxide	103		P	40 - 150
Carbaryl	75.3		P	40 - 150
Carbofuran	66.6		P	40 - 150
Methiocarb	83.2		P	40 - 150
Methomyl	106		P	40 - 150
Oxamyl	110		P	40 - 150
Propoxur	65.2		P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P427986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2398233	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	47.4	75.6	P/P	26 - 165
2398233	Acetochlor	96.9	93.8	P/P	67 - 124
2398233	Alachlor	102	103	P/P	60 - 120
2398233	Ametryn	115	87.4	P/P	54 - 216
2398233	Atrazine Desethyl	113	77.8	P/P	15 - 122
2398233	Avobenzone	120	105	P/P	37 - 178
2398233	Azinphos Methyl	60.9	64.3	P/P	40 - 292
2398233	Azoxystrobin	107	101	P/P	35 - 220
2398233	Bromacil	109	74.3	P/P	45 - 127
2398233	Butylate	63.6	61.0	P/P	20 - 83.0
2398233	Caffeine	201	193	F/P	10 - 194
2398233	Carbophenothion	83.8	79.5	P/P	57 - 127
2398233	Carfentrazone Ethyl	83.8	81.1	P/P	51 - 141
2398233	Chlorfenapyr	70.2	64.5	P/P	46 - 111
2398233	Chlorpyrifos Ethyl	107	109	P/P	52 - 120
2398233	Chlorpyrifos Methyl	108	96.2	P/P	63 - 119
2398233	Coumaphos	117	122	P/P	10 - 228
2398233	Cyanazine	112	90.8	P/P	59 - 241
2398233	Cyprodinil	104	94.8	P/P	47 - 146
2398233	Dechlorane 602	71.3	75.0	P/P	50 - 150
2398233	Dechlorane 603	81.0	67.9	P/P	50 - 150
2398233	Dechlorane Plus	95.4	50.7	P/P	50 - 150
2398233	Demeton	89.7	98.0	P/P	40 - 136
2398233	Diazinon	102	95.9	P/P	69 - 132
2398233	Difenoconazole	80.8	102	P/P	57 - 258
2398233	Dimethenamid	108	98.1	P/P	54 - 110
2398233	Dimethomorph	146	106	P/P	28 - 210
2398233	Disulfoton	82.5	74.8	P/P	43 - 133
2398233	Dithiopyr	69.4	75.7	P/P	39 - 116
2398233	EPTC	44.5	53.8	P/P	20 - 78.0
2398233	Ethion	74.2	63.9	P/P	17 - 119
2398233	Ethoprop	96.1	84.6	P/P	66 - 120
2398233	Etridiazole	65.4	50.4	P/P	28 - 96.0
2398233	Fenamiphos	79.1	77.5	P/P	41 - 126
2398233	Fenbuconazole	111	86.5	P/P	42 - 169
2398233	Fipronil	83.7	64.3	P/P	61 - 132
2398233	Fipronil Desulfinyl	117	85.3	P/P	56 - 132
2398233	Fipronil Sulfide	74.1	63.6	P/P	48 - 119
2398233	Fipronil Sulfone	77.6	68.8	P/P	42 - 131
2398233	Fluazifop-P-butyl	64.9	56.9	P/P	53 - 131
2398233	Fludioxonil	83.5	80.2	P/P	56 - 127
2398233	Flumioxazin	74.8	79.1	P/P	19 - 300
2398233	Flutolanil	106	94.8	P/P	41 - 127
2398233	Fluxapyroxad	111	82.8	P/P	42 - 172
2398233	Fonofos	68.9	85.2	P/P	59 - 113
2398233	Hexabromobenzene	97.3	106	P/P	50 - 150
2398233	Imazalil	92.1	85.1	P/P	21 - 283
2398233	Iprodione	98.6	99.6	P/P	43 - 150
2398233	Loratadine	103	72.0	P/P	23 - 201
2398233	Malathion	125	119	P/P	58 - 136
2398233	Metalaxyl	97.5	94.7	P/P	55 - 120
2398233	Metolachlor	114	97.9	P/P	57 - 121

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P427986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2398233	Metribuzin	97.9	79.4	P/P	58 - 294
2398233	Mevinphos	50.5	65.1	P/P	50 - 126
2398233	Molinate	65.0	61.1	P/P	42 - 93.0
2398233	Myclobutanil	94.0	72.7	P/P	55 - 125
2398233	Naled	89.3	82.4	P/P	18 - 200
2398233	Napropamide	80.2	90.3	P/P	39 - 110
2398233	Octinoxate	94.9	78.0	P/P	21 - 159
2398233	Oxadiazon	110	86.0	P/P	43 - 112
2398233	Oxybenzone	95.3	78.3	P/P	41 - 142
2398233	Oxyfluorfen	107	87.7	P/P	64 - 153
2398233	Parathion Ethyl	99.8	81.6	P/P	69 - 114
2398233	Parathion Methyl	92.6	75.8	P/F	79 - 139
2398233	PBB-153	66.2	84.9	P/P	50 - 150
2398233	PBDE-47	84.3	75.4	P/P	27 - 144
2398233	PBDE-99	68.5	71.1	P/P	18 - 150
2398233	Pendimethalin	104	90.1	P/P	50 - 139
2398233	Pentabromotoluene	92.3	93.7	P/P	50 - 150
2398233	Phenytoin	55.3	52.2	P/P	10 - 146
2398233	Phorate	62.7	73.8	P/P	54 - 161
2398233	Prodiamine	51.3	50.0	P/P	30 - 161
2398233	Prometon	97.0	92.7	P/P	45 - 134
2398233	Prometryn	110	84.3	P/P	45 - 137
2398233	Pronamide	117	117	P/P	65 - 133
2398233	Propanil	92.1	82.1	P/P	49 - 142
2398233	Propargite	67.7	70.9	P/P	10 - 203
2398233	Propiconazole	64.2	56.4	P/P	38 - 146
2398233	Pyraflufen Ethyl	61.5	61.7	P/P	34 - 153
2398233	Pyridaben	112	115	P/P	12 - 192
2398233	Pyriproxyfen	44.4	49.2	P/P	33 - 180
2398233	Simazine	123	105	P/P	51 - 157
2398233	Stirophos	117	108	P/P	10 - 128
2398233	Sulfentrazone	92.3	81.1	P/P	53 - 186
2398233	Tebuconazole	110	103	P/P	10 - 133
2398233	Terbufos	74.9	74.9	P/P	65 - 139
2398233	Terbuthylazine	109	105	P/P	66 - 117
2398233	Tetradecachloro-m-terphenyl	145	91.1	P/P	70 - 200
2398233	Thiobencarb	103	85.1	P/P	51 - 119
2398233	Tri-o-cresyl Phosphate	95.5	89.9	P/P	31 - 144
2398233	Triadimefon	92.8	81.2	P/P	48 - 119
2398233	Tris(1-chloro-2-propyl) phosphate (TCPP)	88.4	77.6	P/P	50 - 150
2398233	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	81.2	65.9	P/P	50 - 150
2398233	Tris(2-chloroethyl) phosphate (TCEP)	83.6	82.0	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P428223

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2397780	Aldrin	41.3	43.2	P/P	20 - 82.0
2397780	Alpha-BHC	71.2	80.3	P/P	71 - 109
2397780	Alpha-Chlordane	61.2	58.0	P/P	42 - 106
2397780	Beta-BHC	70.0	80.7	P/P	69 - 180
2397780	Beta-Cyfluthrin	87.2	98.4	P/P	18 - 175

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P428223

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2397780	Bifenthrin	65.9	71.7	P/P	21 - 128
2397780	Chlorothalonil	86.7	96.9	P/P	10 - 300
2397780	Cis-Nonachlor	44.2	46.9	P/P	34 - 106
2397780	Cypermethrin	86.4	93.6	P/P	22 - 158
2397780	Dacthal	71.2	75.8	P/P	54 - 116
2397780	DDD-p,p'	50.8	58.2	P/P	34 - 107
2397780	DDE-p,p'	51.3	57.7	P/P	33 - 110
2397780	DDT-p,p'	63.5	68.3	P/P	50 - 122
2397780	Delta-BHC	77.2	85.5	P/P	77 - 193
2397780	Deltamethrin	109	123	P/P	10 - 195
2397780	Dichlobenil	42.2	45.2	P/P	25 - 113
2397780	Dicofol	63.6	69.9	P/P	38 - 247
2397780	Dieldrin	52.5	59.2	P/P	45 - 118
2397780	Endosulfan I	52.6	57.2	P/P	51 - 106
2397780	Endosulfan II	53.5	58.5	P/P	37 - 122
2397780	Endosulfan Sulfate	55.6	68.2	P/P	43 - 132
2397780	Endrin	53.9	57.4	P/P	29 - 101
2397780	Endrin Aldehyde	41.1	46.8	P/P	19 - 110
2397780	Endrin Ketone	80.9	98.6	P/P	60 - 140
2397780	Esfenvalerate	85.5	97.3	P/P	26 - 199
2397780	Ethalfluralin	58.6	67.4	P/P	45 - 99.0
2397780	Fenpropathrin	71.9	85.3	P/P	35 - 120
2397780	Gamma-BHC	76.3	81.0	P/P	63 - 128
2397780	Gamma-Chlordane	58.7	56.2	P/P	40 - 104
2397780	Heptachlor	51.6	54.3	P/P	36 - 97.0
2397780	Heptachlor Epoxide	59.5	64.0	P/P	49 - 184
2397780	Hexachlorobenzene	50.0	53.3	P/P	39 - 96.0
2397780	Kepone	78.4	84.8	P/P	10 - 217
2397780	Lambda-Cyhalothrin	71.7	72.5	P/P	21 - 193
2397780	Methoprene	53.5	65.5	P/P	20 - 106
2397780	Methoxychlor	79.6	88.3	P/P	53 - 118
2397780	MGK-264	79.2	84.0	P/P	40 - 118
2397780	Mirex	43.1	46.2	P/P	26 - 92.0
2397780	Oxychlordane	48.2	63.9	P/P	44 - 99.0
2397780	Permethrin	76.1	84.3	P/P	33 - 182
2397780	Phenothrin	87.8	89.2	P/P	10 - 129
2397780	Piperonyl Butoxide	71.5	66.4	P/P	10 - 211
2397780	Prallethrin	73.3	82.9	P/P	24 - 113
2397780	Tau-Fluvalinate	83.8	99.6	P/P	14 - 149
2397780	Tetramethrin	90.3	101	P/P	17 - 151
2397780	Trans-Nonachlor	50.4	51.0	P/P	42 - 102
2397780	Triclosan Methyl	57.3	59.2	P/P	48 - 108
2397780	Trifluralin	57.3	63.9	P/P	47 - 96.0
2398276	PCB-1016	65.4	62.2	P/P	46 - 111
2398276	PCB-1260	69.6	68.6	P/P	45 - 114

Reference Method: EPA 8276
Batch ID: P428223

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2398276	Chlordane	68.7	71.8	P/P	53 - 126
2398276	Toxaphene	77.2	77.5	P/P	56 - 211

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P427991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2397529	Acesulfame K	75.7	67.8	P/P	40 - 150
2397529	AMPA	70.0	63.3	P/P	40 - 150
2397529	Endothall	91.4	82.8	P/P	40 - 150
2397529	Glufosinate	56.0	62.0	P/P	40 - 150
2397529	Glyphosate	60.9	59.1	P/P	40 - 150
2397529	Sucralose	102	96.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P428068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2397862	2,4-D	104	101	P/P	40 - 150
2397862	2,4,5-T	114	106	P/P	40 - 150
2397862	Acetaminophen	110	113	P/P	30 - 150
2397862	Acetamiprid	91.9	71.5	P/P	40 - 150
2397862	Afidopyropen	84.7	74.6	P/P	30 - 150
2397862	Benzovindiflupyr	78.9	81.6	P/P	40 - 150
2397862	Carbamazepine	77.2	69.8	P/P	40 - 150
2397862	Clothianidin	106	99.7	P/P	40 - 150
2397862	Dinotefuran	120	93.5	P/P	40 - 150
2397862	Diuron	61.7	64.1	P/P	40 - 150
2397862	Fenuron	67.2	57.9	P/P	40 - 150
2397862	Hydrocodone	107	99.1	P/P	40 - 150
2397862	Ibuprofen	69.7	55.7	P/P	40 - 150
2397862	Imidacloprid	125	122	P/P	40 - 150
2397862	Linuron	73.7	73.5	P/P	40 - 150
2397862	Mandestrobin	90.8	89.1	P/P	40 - 150
2397862	MCPP	106	103	P/P	40 - 150
2397862	Naproxen	89.1	83.6	P/P	40 - 150
2397862	Primidone	110	96.5	P/P	40 - 150
2397862	Pyraclostrobin	88.3	80.2	P/P	40 - 150
2397862	Silvex	128	132	P/P	40 - 150
2397862	Thiamethoxam	126	109	P/P	40 - 150
2397862	Tolfenpyrad	60.4	56.5	P/P	30 - 150
2397862	Triclopyr	114	113	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P428069

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2397861	3-Hydroxycarbofuran	84.5	84.9	P/P	40 - 150
2397861	Aldicarb	54.4	51.4	P/P	30 - 150
2397861	Aldicarb Sulfone	93.3	96.0	P/P	40 - 150
2397861	Aldicarb Sulfoxide	35.9	36.1	F/F	40 - 150
2397861	Carbaryl	57.9	67.7	P/P	40 - 150
2397861	Carbofuran	55.9	51.5	P/P	40 - 150
2397861	Methiocarb	67.5	66.8	P/P	40 - 150
2397861	Methomyl	78.9	79.6	P/P	40 - 150
2397861	Oxamyl	99.3	100	P/P	40 - 150
2397861	Propoxur	50.4	48.3	P/P	40 - 150

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P427986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2398233	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	45.8	Spike	F	0 - 37
2398233	Acetochlor	3.20	Spike	P	0 - 28
2398233	Alachlor	0.786	Spike	P	0 - 30
2398233	Ametryn	19.3	Spike	P	0 - 32
2398233	Atrazine	12.1	Spike	P	0 - 41
2398233	Atrazine Desethyl	19.6	Spike	P	0 - 36
2398233	Avobenzone	13.7	Spike	P	0 - 36
2398233	Azinphos Methyl	5.41	Spike	P	0 - 75
2398233	Azoxystrobin	5.78	Spike	P	0 - 39
2398233	Bromacil	26.8	Spike	P	0 - 33
2398233	Butylate	4.12	Spike	P	0 - 44
2398233	Caffeine	4.14	Spike	P	0 - 74
2398233	Carbophenothion	5.33	Spike	P	0 - 25
2398233	Carfentrazone Ethyl	3.37	Spike	P	0 - 27
2398233	Chlorfenapyr	8.45	Spike	P	0 - 24
2398233	Chlorpyrifos Ethyl	1.90	Spike	P	0 - 26
2398233	Chlorpyrifos Methyl	11.5	Spike	P	0 - 26
2398233	Coumaphos	3.94	Spike	P	0 - 28
2398233	Cyanazine	20.8	Spike	P	0 - 48
2398233	Cyprodinil	9.17	Spike	P	0 - 29
2398233	Dechlorane 602	5.06	Spike	P	0 - 30
2398233	Dechlorane 603	17.6	Spike	P	0 - 30
2398233	Dechlorane Plus	61.2	Spike	F	0 - 30
2398233	Demeton	8.94	Spike	P	0 - 33
2398233	Diazinon	6.13	Spike	P	0 - 29
2398233	Difenoconazole	22.7	Spike	P	0 - 34
2398233	Dimethenamid	9.30	Spike	P	0 - 39
2398233	Dimethomorph	32.1	Spike	P	0 - 51
2398233	Disulfoton	9.77	Spike	P	0 - 30
2398233	Dithiopyr	8.75	Spike	P	0 - 26
2398233	EPTC	18.8	Spike	P	0 - 43
2398233	Ethion	14.8	Spike	P	0 - 79
2398233	Ethoprop	12.7	Spike	P	0 - 29
2398233	Etridiazole	25.9	Spike	P	0 - 33
2398233	Fenamiphos	2.07	Spike	P	0 - 40
2398233	Fenbuconazole	24.4	Spike	P	0 - 74
2398233	Fipronil	26.1	Spike	P	0 - 29
2398233	Fipronil Desulfinyl	31.3	Spike	P	0 - 32
2398233	Fipronil Sulfide	15.3	Spike	P	0 - 30
2398233	Fipronil Sulfone	12.0	Spike	P	0 - 33
2398233	Fluazifop-P-butyl	13.1	Spike	P	0 - 38
2398233	Fludioxonil	4.03	Spike	P	0 - 29
2398233	Flumioxazin	5.62	Spike	P	0 - 51
2398233	Flutolanil	11.5	Spike	P	0 - 25
2398233	Fluxapyroxad	24.9	Spike	P	0 - 45
2398233	Fonofos	21.1	Spike	P	0 - 27
2398233	Hexabromobenzene	8.41	Spike	P	0 - 30
2398233	Hexazinone	16.5	Spike	P	0 - 30
2398233	Imazalil	7.93	Spike	P	0 - 100
2398233	Iprodione	1.01	Spike	P	0 - 33
2398233	Loratadine	35.3	Spike	P	0 - 56

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P427986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2398233	Malathion	5.47	Spike	P	0 - 37
2398233	Metalaxyl	2.61	Spike	P	0 - 40
2398233	Metolachlor	9.64	Spike	P	0 - 29
2398233	Metribuzin	15.0	Spike	P	0 - 45
2398233	Mevinphos	25.3	Spike	P	0 - 29
2398233	Molinate	6.17	Spike	P	0 - 33
2398233	Myclobutanil	25.5	Spike	P	0 - 26
2398233	Naled	8.03	Spike	P	0 - 37
2398233	Napropamide	11.8	Spike	P	0 - 44
2398233	Norflurazon	24.2	Spike	P	0 - 30
2398233	Octinoxate	19.6	Spike	P	0 - 45
2398233	Oxadiazon	21.6	Spike	P	0 - 28
2398233	Oxybenzone	19.5	Spike	P	0 - 46
2398233	Oxyfluorfen	19.4	Spike	P	0 - 28
2398233	Parathion Ethyl	20.1	Spike	P	0 - 31
2398233	Parathion Methyl	20.0	Spike	P	0 - 29
2398233	PBB-153	24.8	Spike	P	0 - 30
2398233	PBDE-47	11.1	Spike	P	0 - 36
2398233	PBDE-99	3.76	Spike	P	0 - 40
2398233	Pendimethalin	14.5	Spike	P	0 - 33
2398233	Pentabromotoluene	1.45	Spike	P	0 - 30
2398233	Phenytoin	5.82	Spike	P	0 - 100
2398233	Phorate	16.2	Spike	P	0 - 36
2398233	Prodiamine	2.54	Spike	P	0 - 71
2398233	Prometon	4.52	Spike	P	0 - 36
2398233	Prometryn	26.6	Spike	P	0 - 28
2398233	Pronamide	0.149	Spike	P	0 - 24
2398233	Propanil	11.4	Spike	P	0 - 28
2398233	Propargite	4.69	Spike	P	0 - 43
2398233	Propiconazole	10.1	Spike	P	0 - 33
2398233	Pyraflufen Ethyl	0.398	Spike	P	0 - 29
2398233	Pyridaben	2.81	Spike	P	0 - 30
2398233	Pyriproxyfen	10.1	Spike	P	0 - 79
2398233	Simazine	7.23	Spike	P	0 - 29
2398233	Stirophos	8.04	Spike	P	0 - 61
2398233	Sulfentrazone	12.9	Spike	P	0 - 33
2398233	Tebuconazole	6.41	Spike	P	0 - 69
2398233	Terbufos	0.0959	Spike	P	0 - 29
2398233	Terbuthylazine	2.95	Spike	P	0 - 32
2398233	Tetradecachloro-m-terphenyl	46.0	Spike	F	0 - 30
2398233	Thiobencarb	18.8	Spike	P	0 - 26
2398233	Tri-o-cresyl Phosphate	6.09	Spike	P	0 - 33
2398233	Triadimefon	13.3	Spike	P	0 - 28
2398233	Tris(1-chloro-2-propyl) phosphate (TCPP)	13.0	Spike	P	0 - 30
2398233	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	20.8	Spike	P	0 - 30
2398233	Tris(2-chloroethyl) phosphate (TCEP)	1.90	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P428223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2397780	Aldrin	4.47	Spike	P	0 - 41
2397780	Alpha-BHC	12.0	Spike	P	0 - 25
2397780	Alpha-Chlordane	5.34	Spike	P	0 - 33
2397780	Beta-BHC	14.2	Spike	P	0 - 36
2397780	Beta-Cyfluthrin	12.0	Spike	P	0 - 42
2397780	Bifenthrin	8.42	Spike	P	0 - 53
2397780	Chlorothalonil	11.1	Spike	P	0 - 71
2397780	Cis-Nonachlor	5.94	Spike	P	0 - 29
2397780	Cypermethrin	7.92	Spike	P	0 - 40
2397780	Dacthal	6.35	Spike	P	0 - 26
2397780	DDD-p,p'	13.6	Spike	P	0 - 39
2397780	DDE-p,p'	11.6	Spike	P	0 - 33
2397780	DDT-p,p'	7.20	Spike	P	0 - 40
2397780	Delta-BHC	10.3	Spike	P	0 - 37
2397780	Deltamethrin	12.3	Spike	P	0 - 100
2397780	Dichlobenil	6.87	Spike	P	0 - 40
2397780	Dicofol	9.45	Spike	P	0 - 31
2397780	Dieldrin	12.0	Spike	P	0 - 27
2397780	Endosulfan I	8.33	Spike	P	0 - 23
2397780	Endosulfan II	8.90	Spike	P	0 - 28
2397780	Endosulfan Sulfate	20.5	Spike	P	0 - 38
2397780	Endrin	6.21	Spike	P	0 - 63
2397780	Endrin Aldehyde	13.1	Spike	P	0 - 60
2397780	Endrin Ketone	19.7	Spike	P	0 - 37
2397780	Esfenvalerate	12.9	Spike	P	0 - 52
2397780	Ethalfluralin	13.9	Spike	P	0 - 23
2397780	Fenpropathrin	17.0	Spike	P	0 - 32
2397780	Gamma-BHC	6.00	Spike	P	0 - 17
2397780	Gamma-Chlordane	4.43	Spike	P	0 - 40
2397780	Heptachlor	5.17	Spike	P	0 - 29
2397780	Heptachlor Epoxide	7.34	Spike	P	0 - 25
2397780	Hexachlorobenzene	6.31	Spike	P	0 - 36
2397780	Kepone	7.78	Spike	P	0 - 93
2397780	Lambda-Cyhalothrin	1.07	Spike	P	0 - 55
2397780	Methoprene	20.1	Spike	P	0 - 53
2397780	Methoxychlor	10.3	Spike	P	0 - 29
2397780	MGK-264	5.86	Spike	P	0 - 35
2397780	Mirex	6.85	Spike	P	0 - 46
2397780	Oxychlordane	28.0	Spike	P	0 - 29
2397780	Permethrin	10.2	Spike	P	0 - 44
2397780	Phenothrin	1.58	Spike	P	0 - 56
2397780	Piperonyl Butoxide	7.43	Spike	P	0 - 100
2397780	Prallethrin	12.3	Spike	P	0 - 42
2397780	Tau-Fluvalinate	17.2	Spike	P	0 - 54
2397780	Tetramethrin	11.6	Spike	P	0 - 51
2397780	Trans-Nonachlor	1.18	Spike	P	0 - 37
2397780	Triclosan Methyl	3.22	Spike	P	0 - 31
2397780	Trifluralin	10.9	Spike	P	0 - 30
2398276	PCB-1016	5.03	Spike	P	0 - 32
2398276	PCB-1260	1.39	Spike	P	0 - 31

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P428223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2398276	Chlordane	4.49	Spike	P	0 - 25
2398276	Toxaphene	0.385	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P427991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2397529	Acesulfame K	11.1	Spike	P	0 - 30
2397529	AMPA	9.25	Spike	P	0 - 30
2397529	Endothall	9.94	Spike	P	0 - 30
2397529	Glufosinate	10.3	Spike	P	0 - 30
2397529	Glyphosate	2.93	Spike	P	0 - 30
2397529	Sucralose	5.37	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P428068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2397862	2,4-D	2.13	Spike	P	0 - 30
2397862	2,4,5-T	7.01	Spike	P	0 - 30
2397862	Acetaminophen	3.10	Spike	P	0 - 30
2397862	Acetamiprid	25.0	Spike	P	0 - 30
2397862	Afidopyropen	12.6	Spike	P	0 - 30
2397862	Benzovindiflupyr	3.33	Spike	P	0 - 30
2397862	Carbamazepine	8.81	Spike	P	0 - 30
2397862	Clothianidin	5.88	Spike	P	0 - 30
2397862	Dinotefuran	25.1	Spike	P	0 - 30
2397862	Diuron	3.75	Spike	P	0 - 30
2397862	Fenuron	14.9	Spike	P	0 - 30
2397862	Fluridone	5.36	Spike	P	0 - 30
2397862	Hydrocodone	7.69	Spike	P	0 - 30
2397862	Ibuprofen	22.3	Spike	P	0 - 30
2397862	Imazapyr	2.75	Spike	P	0 - 30
2397862	Imidacloprid	2.25	Spike	P	0 - 30
2397862	Linuron	0.306	Spike	P	0 - 30
2397862	Mandestrobin	1.88	Spike	P	0 - 30
2397862	MCPP	2.70	Spike	P	0 - 30
2397862	Naproxen	6.38	Spike	P	0 - 30
2397862	Primidone	12.3	Spike	P	0 - 30
2397862	Pyraclostrobin	9.55	Spike	P	0 - 30
2397862	Silvex	3.52	Spike	P	0 - 30
2397862	Thiamethoxam	14.1	Spike	P	0 - 30
2397862	Tolfenpyrad	6.64	Spike	P	0 - 30
2397862	Triclopyr	1.40	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P428069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2397861	3-Hydroxycarbofuran	0.457	Spike	P	0 - 30
2397861	Aldicarb	5.58	Spike	P	0 - 30
2397861	Aldicarb Sulfone	2.88	Spike	P	0 - 30
2397861	Aldicarb Sulfoxide	0.623	Spike	P	0 - 30
2397861	Carbaryl	15.5	Spike	P	0 - 30
2397861	Carbofuran	8.23	Spike	P	0 - 30
2397861	Methiocarb	1.11	Spike	P	0 - 30
2397861	Methomyl	0.957	Spike	P	0 - 30
2397861	Oxamyl	1.07	Spike	P	0 - 30
2397861	Propoxur	4.29	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2397861
Field Sample ID: G5CE0159

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

Lab Sample ID: 2397862
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	120	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	74.1	P	30 - 160
EPA 8321B	Diuron-d6	54.9	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	60.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.7	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	81.0	P	30 - 160

Lab Sample ID: 2397863
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	91.6	P	29 - 130
EPA 8270E	Decachlorobiphenyl	84.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	51.6	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	67.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	75.3	P	30 - 101
EPA 8276	PCNB	86.7	P	48 - 121

Lab Sample ID: 2397864
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	57.6	P	20 - 200
EPA 8270E	Simazine-d10	80.7	P	62 - 142
EPA 8270E	Terbufos-d10	79.0	P	58 - 132
EPA 8270E	Terphenyl-d14	81.4	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A118472
Included Lab Sample IDs: 2397862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	98.0	94.7	P/P	60 - 160
Sucralose	117	108	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A118480
Included Lab Sample IDs: 2397864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.7		P	80 - 120
Avobenzone	90.3		P	80 - 120
Dechlorane 602	99.0		P	80 - 120
Dechlorane 603	98.5		P	80 - 120
Dechlorane Plus	77.0*		F	80 - 120
Hexabromobenzene	99.2		P	80 - 120
Octinoxate	90.3		P	80 - 120
Oxybenzone	89.1		P	80 - 120
PBB-153	95.8		P	80 - 120
PBDE-47	88.6		P	80 - 120
PBDE-99	96.0		P	80 - 120
Pentabromotoluene	99.5		P	80 - 120
Tetradecachloro-m-terphenyl	90.4		P	80 - 120
Tri-o-cresyl Phosphate	93.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	86.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	96.0		P	80 - 120

Reference Method: EPA 8321B
Run ID: A118491
Included Lab Sample IDs: 2397862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	84.6	83.4	P/P	50 - 150
2,4,5-T	85.4	94.5	P/P	50 - 150
Acetaminophen	94.5	107	P/P	60 - 160
Acetamiprid	103	100	P/P	50 - 150
Afidopyropen	73.7	69.2	P/P	50 - 150
Bentazon	122	122	P/P	50 - 160
Benzovindiflupyr	84.3	93.8	P/P	50 - 150
Carbamazepine	102	101	P/P	60 - 150
Clothianidin	101	95.2	P/P	60 - 150
Dinotefuran	112	114	P/P	50 - 150
Diuron	107	105	P/P	60 - 160
Fenuron	105	97.8	P/P	60 - 150
Fluridone	97.4	93.5	P/P	60 - 160
Hydrocodone	148	138	P/P	60 - 150
Ibuprofen	118	66.6	P/P	50 - 160
Imazapyr	118	110	P/P	50 - 150
Imidacloprid	91.5	94.1	P/P	60 - 150
Linuron	94.6	89.3	P/P	60 - 150
Mandestrobin	99.0	97.6	P/P	50 - 150
MCPP	94.5	86.1	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A118491
Included Lab Sample IDs: 2397862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naproxen	91.3	78.1	P/P	50 - 160
Primidone	109	109	P/P	60 - 150
Pyraclostrobin	89.2	90.2	P/P	60 - 150
Silvex	76.4	83.8	P/P	50 - 150
Thiamethoxam	123	138	P/P	50 - 150
Tolfenpyrad	82.8	86.2	P/P	60 - 150
Triclopyr	86.8	74.9	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A118496
Included Lab Sample IDs: 2397861

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	106	107	P/P	60 - 150
Aldicarb	107	105	P/P	60 - 150
Aldicarb Sulfone	106	117	P/P	50 - 150
Aldicarb Sulfoxide	111	118	P/P	50 - 150
Carbaryl	111	118	P/P	60 - 150
Carbofuran	99.8	103	P/P	50 - 150
Methiocarb	99.9	92.1	P/P	50 - 150
Methomyl	115	128	P/P	50 - 150
Oxamyl	127	127	P/P	50 - 150
Propoxur	103	104	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A118497
Included Lab Sample IDs: 2397862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	100	109	P/P	60 - 160
Endothall	93.1	92.7	P/P	60 - 160
Glufosinate	94.6	84.6	P/P	60 - 160
Glyphosate	108	110	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A118543
Included Lab Sample IDs: 2397863

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	94.1		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118549
Included Lab Sample IDs: 2397864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.8		P	80 - 120
Alachlor	91.2		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	97.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A118549
Included Lab Sample IDs: 2397864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	84.5		P	80 - 120
Bromacil	95.8		P	80 - 120
Butylate	97.5		P	80 - 120
Caffeine	99.1		P	80 - 120
Carbophenothion	95.7		P	80 - 120
Carfentrazone Ethyl	100		P	80 - 120
Chlorfenapyr	88.4		P	80 - 120
Chlorpyrifos Ethyl	92.2		P	80 - 120
Chlorpyrifos Methyl	92.1		P	80 - 120
Coumaphos	89.8		P	80 - 120
Cyanazine	94.6		P	80 - 120
Cyprodinil	110		P	80 - 120
Demeton	107		P	80 - 120
Diazinon	94.2		P	80 - 120
Difenoconazole	96.3		P	80 - 120
Dimethenamid	95.9		P	80 - 120
Dimethomorph	91.1		P	80 - 120
Disulfoton	89.2		P	80 - 120
Dithiopyr	99.0		P	80 - 120
EPTC	104		P	80 - 120
Ethion	94.5		P	80 - 120
Ethoprop	96.0		P	80 - 120
Etridiazole	100		P	80 - 120
Fenamiphos	108		P	80 - 120
Fenbuconazole	96.8		P	80 - 120
Fipronil	97.7		P	80 - 120
Fipronil Desulfinyl	106		P	80 - 120
Fipronil Sulfide	96.1		P	80 - 120
Fipronil Sulfone	106		P	80 - 120
Fluazifop-P-butyl	104		P	80 - 120
Fludioxonil	114		P	80 - 120
Flumioxazin	68.3*		F	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	101		P	80 - 120
Fonofos	90.3		P	80 - 120
Hexazinone	97.4		P	80 - 120
Imazalil	113		P	80 - 120
Iprodione	88.6		P	80 - 120
Loratadine	82.6		P	80 - 120
Malathion	93.1		P	80 - 120
Metalaxyl	97.9		P	80 - 120
Metolachlor	99.4		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	107		P	80 - 120
Molinate	100		P	80 - 120
Myclobutanil	98.5		P	80 - 120
Naled	108		P	80 - 120
Napropamide	117		P	80 - 120
Norflurazon	106		P	80 - 120
Oxadiazon	119		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A118549
Included Lab Sample IDs: 2397864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxyfluorfen	116		P	80 - 120
Parathion Ethyl	99.1		P	80 - 120
Parathion Methyl	109		P	80 - 120
Pendimethalin	98.8		P	80 - 120
Phenytoin	105		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	112		P	80 - 120
Prometon	93.1		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	89.7		P	80 - 120
Propargite	95.2		P	80 - 120
Propiconazole	92.2		P	80 - 120
Pyraflufen Ethyl	115		P	80 - 120
Pyridaben	87.5		P	80 - 120
Pyriproxyfen	87.4		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	115		P	80 - 120
Sulfentrazone	94.1		P	80 - 120
Tebuconazole	108		P	80 - 120
Terbufos	93.9		P	80 - 120
Terbuthylazine	92.8		P	80 - 120
Thiobencarb	95.4		P	80 - 120
Triadimefon	89.4		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118551
Included Lab Sample IDs: 2397864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118595
Included Lab Sample IDs: 2397863

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	104		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	112		P	80 - 120
Bifenthrin	98.5		P	80 - 120
Chlorothalonil	106		P	80 - 120
Cis-Nonachlor	117		P	80 - 120
Cypermethrin	95.6		P	80 - 120
Dacthal	116		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	91.4		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	103		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A118595
Included Lab Sample IDs: 2397863

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Deltamethrin	107		P	80 - 120
Dichlobenil	118		P	80 - 120
Dicofol	105		P	80 - 120
Dieldrin	91.4		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	113		P	80 - 120
Endosulfan Sulfate	107		P	80 - 120
Endrin	107		P	80 - 120
Endrin Aldehyde	96.2		P	80 - 120
Endrin Ketone	100		P	80 - 120
Esfenvalerate	99.1		P	80 - 120
Ethalfluralin	94.4		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	103		P	80 - 120
Kepone	104		P	80 - 120
Lambda-Cyhalothrin	106		P	80 - 120
Methoprene	107		P	80 - 120
Methoxychlor	106		P	80 - 120
MGK-264	96.3		P	80 - 120
Mirex	106		P	80 - 120
Oxychlordane	107		P	80 - 120
Permethrin	111		P	80 - 120
Phenothrin	108		P	80 - 120
Piperonyl Butoxide	98.2		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	91.5		P	80 - 120
Trans-Nonachlor	116		P	80 - 120
Triclosan Methyl	104		P	80 - 120
Trifluralin	83.3		P	80 - 120

Reference Method: EPA 8276
Run ID: A118599
Included Lab Sample IDs: 2397863

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.1		P	80 - 120
Toxaphene	91.2		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	64.3	47.4	75.6			45.8
	Acetochlor	90.1	96.9	93.8			3.20
	Alachlor	108	102	103			0.786
	Aldrin	44.1	41.3	43.2			4.47
	Alpha-BHC	96.4	71.2	80.3			12.0
	Alpha-Chlordane	66.8	61.2	58.0			5.34
	Ametryn	118	115	87.4			19.3
	Atrazine	107					12.1
	Atrazine Desethyl	102	113	77.8			19.6
	Avobenzone	115	120	105			13.7
	Azinphos Methyl	70.8	60.9	64.3			5.41
	Azoxystrobin	103	107	101			5.78
	Beta-BHC	79.8	70.0	80.7			14.2
	Beta-Cyfluthrin	56.2	87.2	98.4			12.0
	Bifenthrin	41.9	65.9	71.7			8.42
	Bromacil	100	109	74.3			26.8
	Butylate	74.0	63.6	61.0			4.12
	Caffeine	114	201	193			4.14
	Carbophenothion	130	83.8	79.5			5.33
	Carfentrazone Ethyl	119	83.8	81.1			3.37
	Chlorfenapyr	86.9	70.2	64.5			8.45
	Chlorothalonil	80.6	86.7	96.9			11.1
	Chlorpyrifos Ethyl	105	107	109			1.90
	Chlorpyrifos Methyl	106	108	96.2			11.5
	Cis-Nonachlor	63.8	44.2	46.9			5.94
	Coumaphos	48.4	117	122			3.94
	Cyanazine	125	112	90.8			20.8
	Cypermethrin	56.2	86.4	93.6			7.92
	Cyprodinil	94.5	104	94.8			9.17
	Dacthal	80.7	71.2	75.8			6.35
	DDD-p,p'	84.3	50.8	58.2			13.6
	DDE-p,p'	74.5	51.3	57.7			11.6
	DDT-p,p'	81.6	63.5	68.3			7.20
	Dechlorane 602	69.8	71.3	75.0			5.06
	Dechlorane 603	81.2	81.0	67.9			17.6
	Dechlorane Plus	94.9	95.4	50.7			61.2
	Delta-BHC	82.1	77.2	85.5			10.3
	Deltamethrin	71.5	109	123			12.3
	Demeton	97.2	89.7	98.0			8.94
	Diazinon	118	102	95.9			6.13
	Dichlobenil	70.7	42.2	45.2			6.87
	Dicofol	74.0	63.6	69.9			9.45
	Dieldrin	74.3	52.5	59.2			12.0
	Difenoconazole	80.5	80.8	102			22.7
	Dimethenamid	105	108	98.1			9.30
	Dimethomorph	145	146	106			32.1
	Disulfoton	114	82.5	74.8			9.77
	Dithiopyr	112	69.4	75.7			8.75
	Endosulfan I	77.8	52.6	57.2			8.33
	Endosulfan II	75.7	53.5	58.5			8.90
	Endosulfan Sulfate	77.8	55.6	68.2			20.5
	Endrin	78.1	53.9	57.4			6.21

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Endrin Aldehyde	62.5	41.1	46.8			13.1
	Endrin Ketone	122	80.9	98.6			19.7
	EPTC	79.5	44.5	53.8			18.8
	Esfenvalerate	52.4	85.5	97.3			12.9
	Ethalfluralin	78.0	58.6	67.4			13.9
	Ethion	92.8	74.2	63.9			14.8
	Ethoprop	76.2	96.1	84.6			12.7
	Etridiazole	86.5	65.4	50.4			25.9
	Fenamiphos	112	79.1	77.5			2.07
	Fenbuconazole	115	111	86.5			24.4
	Fenpropathrin	60.0	71.9	85.3			17.0
	Fipronil	91.9	83.7	64.3			26.1
	Fipronil Desulfinyl	117	117	85.3			31.3
	Fipronil Sulfide	95.3	74.1	63.6			15.3
	Fipronil Sulfone	99.4	77.6	68.8			12.0
	Fluazifop-P-butyl	68.1	64.9	56.9			13.1
	Fludioxonil	123	83.5	80.2			4.03
	Flumioxazin	69.4	74.8	79.1			5.62
	Flutolanil	104	106	94.8			11.5
	Fluxapyroxad	126	111	82.8			24.9
	Fonofos	109	68.9	85.2			21.1
	Gamma-BHC	115	76.3	81.0			6.00
	Gamma-Chlordane	72.5	58.7	56.2			4.43
	Heptachlor	63.5	51.6	54.3			5.17
	Heptachlor Epoxide	70.0	59.5	64.0			7.34
	Hexabromobenzene	102	97.3	106			8.41
	Hexachlorobenzene	63.8	50.0	53.3			6.31
	Hexazinone	113					16.5
	Imazalil	113	92.1	85.1			7.93
	Iprodione	100	98.6	99.6			1.01
	Kepone	56.2	78.4	84.8			7.78
	Lambda-Cyhalothrin	45.3	71.7	72.5			1.07
	Loratadine	76.7	103	72.0			35.3
	Malathion	118	125	119			5.47
	Metalaxyl	115	97.5	94.7			2.61
	Methoprene	36.7	53.5	65.5			20.1
	Methoxychlor	96.9	79.6	88.3			10.3
	Metolachlor	117	114	97.9			9.64
	Metribuzin	96.8	97.9	79.4			15.0
	Mevinphos	84.5	50.5	65.1			25.3
	MGK-264	60.9	79.2	84.0			5.86
	Mirex	49.6	43.1	46.2			6.85
	Molinate	73.2	65.0	61.1			6.17
	Myclobutanil	96.7	94.0	72.7			25.5
	Naled	69.9	89.3	82.4			8.03
	Napropamide	101	80.2	90.3			11.8
	Norflurazon	84.6					24.2
	Octinoxate	102	94.9	78.0			19.6
	Oxadiazon	111	110	86.0			21.6
	Oxybenzone	105	95.3	78.3			19.5
	Oxychlordane	64.3	48.2	63.9			28.0
	Oxyfluorfen	133	107	87.7			19.4
	Parathion Ethyl	99.3	99.8	81.6			20.1
	Parathion Methyl	92.8	92.6	75.8			20.0

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	PBB-153	78.1	66.2	84.9			24.8
	PBDE-47	90.5	84.3	75.4			11.1
	PBDE-99	70.5	68.5	71.1			3.76
	PCB-1016	59.5	65.4	62.2			5.03
	PCB-1260	74.0	69.6	68.6			1.39
	Pendimethalin	101	104	90.1			14.5
	Pentabromotoluene	94.1	92.3	93.7			1.45
	Permethrin	50.2	76.1	84.3			10.2
	Phenothrin	39.9	87.8	89.2			1.58
	Phenytoin	58.3	55.3	52.2			5.82
	Phorate	93.6	62.7	73.8			16.2
	Piperonyl Butoxide	58.1	71.5	66.4			7.43
	Prallethrin	71.2	73.3	82.9			12.3
	Prodiamine	77.8	51.3	50.0			2.54
	Prometon	93.9	97.0	92.7			4.52
	Prometryn	127	110	84.3			26.6
	Pronamide	114	117	117			0.149
	Propanil	114	92.1	82.1			11.4
	Propargite	61.5	67.7	70.9			4.69
	Propiconazole	91.8	64.2	56.4			10.1
	Pyraflufen Ethyl	115	61.5	61.7			0.398
	Pyridaben	127	112	115			2.81
	Pyriproxyfen	49.3	44.4	49.2			10.1
	Simazine	116	123	105			7.23
	Stirophos	94.9	117	108			8.04
	Sulfentrazone	127	92.3	81.1			12.9
	Tau-Fluvalinate	42.3	83.8	99.6			17.2
	Tebuconazole	112	110	103			6.41
	Terbufos	108	74.9	74.9			0.0959
	Terbuthylazine	86.6	109	105			2.95
	Tetradecachloro-m-terphenyl	127	145	91.1			46.0
	Tetramethrin	59.8	90.3	101			11.6
	Thiobencarb	112	103	85.1			18.8
	Trans-Nonachlor	65.0	50.4	51.0			1.18
	Tri-o-cresyl Phosphate	103	95.5	89.9			6.09
	Triadimefon	97.0	92.8	81.2			13.3
	Triclosan Methyl	81.8	57.3	59.2			3.22
	Trifluralin	76.1	57.3	63.9			10.9
	Tris(1-chloro-2-propyl) phosphate (TCPP)	95.1	88.4	77.6			13.0
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.5	81.2	65.9			20.8
	Tris(2-chloroethyl) phosphate (TCEP)	96.9	83.6	82.0			1.90
EPA 8276	Chlordane	63.9	68.7	71.8			4.49
	Toxaphene	70.2	77.2	77.5			0.385
EPA 8321B	2,4-D	100	104	101			2.13
	2,4,5-T	100	114	106			7.01
	3-Hydroxycarbofuran	81.7	84.5	84.9			0.457
	Acesulfame K	96.2	75.7	67.8			11.1
	Acetaminophen	101	110	113			3.10
	Acetamiprid	85.2	91.9	71.5			25.0
	Afidopyropen	68.9	84.7	74.6			12.6
	Aldicarb	68.6	54.4	51.4			5.58

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Aldicarb Sulfone	101	93.3	96.0			2.88
	Aldicarb Sulfoxide	103	35.9	36.1			0.623
	AMPA	123	70.0	63.3			9.25
	Bentazon	97.9					
	Benzovindiflupyr	87.5	78.9	81.6			3.33
	Carbamazepine	87.9	77.2	69.8			8.81
	Carbaryl	75.3	57.9	67.7			15.5
	Carbofuran	66.6	55.9	51.5			8.23
	Clothianidin	91.5	106	99.7			5.88
	Dinotefuran	98.5	120	93.5			25.1
	Diuron	79.0	61.7	64.1			3.75
	Endothall	90.7	91.4	82.8			9.94
	Fenuron	88.8	67.2	57.9			14.9
	Fluridone	89.9					5.36
	Glufosinate	99.3	56.0	62.0			10.3
	Glyphosate	120	60.9	59.1			2.93
	Hydrocodone	126	107	99.1			7.69
	Ibuprofen	77.0	69.7	55.7			22.3
	Imazapyr	106					2.75
	Imidacloprid	87.0	125	122			2.25
	Linuron	87.9	73.7	73.5			0.306
	Mandestrobin	91.7	90.8	89.1			1.88
	MCPP	95.2	106	103			2.70
	Methiocarb	83.2	67.5	66.8			1.11
	Methomyl	106	78.9	79.6			0.957
	Naproxen	75.4	89.1	83.6			6.38
	Oxamyl	110	99.3	100			1.07
	Primidone	97.7	110	96.5			12.3
	Propoxur	65.2	50.4	48.3			4.29
	Pyraclostrobin	86.7	88.3	80.2			9.55
	Silvex	108	128	132			3.52
	Sucralose	107	102	96.9			5.37
	Thiamethoxam	105	126	109			14.1
	Tolfenpyrad	59.7	60.4	56.5			6.64
	Triclopyr	93.8	114	113			1.40

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2397864
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2397863
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2397864
EPA 8270E	PCBs in water matrices by GC/MS/MS	2397863
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2397863
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2397861
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2397862

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	04/04/2023	04/06/2023 08:00	Fe-Val Siddell	04/07/2023 17:18	Vandana T. Nagar	2397864
	04/04/2023	04/06/2023 08:00	Fe-Val Siddell	04/10/2023 18:52	Arthur Maknenko	2397864
	04/04/2023	04/06/2023 08:00	Fe-Val Siddell	04/12/2023 17:39	Vandana T. Nagar	2397864
	04/04/2023	04/10/2023 08:30	Rasheda Ghaffari	04/12/2023 23:44	Julie Wi	2397863
	04/04/2023	04/10/2023 08:30	Rasheda Ghaffari	04/15/2023 00:59	Michael Poppell	2397863
EPA 8276	04/04/2023	04/10/2023 08:30	Rasheda Ghaffari	04/13/2023 05:47	Lipi Saha	2397863
EPA 8321B	04/04/2023	04/07/2023 09:00	Hoor Shaik	04/07/2023 23:49	Juyoung Kim	2397862
	04/04/2023	04/07/2023 09:00	Hoor Shaik	04/10/2023 11:37	Juyoung Kim	2397862
	04/04/2023	04/07/2023 09:00	Touraj Touran	04/07/2023 11:54	Manjita Shrestha	2397862
	04/04/2023	04/07/2023 09:00	Touraj Touran	04/08/2023 17:29	Manjita Shrestha	2397862
	04/04/2023	04/07/2023 09:00	Touraj Touran	04/09/2023 08:54	Manjita Shrestha	2397862
	04/04/2023	04/10/2023 09:00	Hoor Shaik	04/10/2023 18:31	Juyoung Kim	2397861