Chemical Analysis Report

NW-DIST-2023-05-05-01

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

Event Description: **Laurel Hill East**
Request ID: **RQ-2023-05-01-48**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

For additional information please contact
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Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 30-MAY-2023 11:46

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: Gum Creek **Collection Date/Time: 05/03/2023 09:55**

Field ID: G4NW0382 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2406197	EPA 8321B	Aldicarb	0.020	UY	ug/L	P429589	
		Aldicarb Sulfone	0.0020	UY	ug/L	P429589	
		Aldicarb Sulfoxide	0.0020	UY	ug/L	P429589	
		Carbaryl	0.0020	UY	ug/L	P429589	
		Carbofuran	0.0020	UY	ug/L	P429589	
		3-Hydroxycarbofuran	0.0020	UY	ug/L	P429589	
		Methiocarb	0.0020	UY	ug/L	P429589	
		Methomyl	0.0020	UY	ug/L	P429589	
		Oxamyl	0.0020	UY	ug/L	P429589	
		Propoxur	0.0020	UY	ug/L	P429589	
2406198		2,4-D	0.0020	UY	ug/L	P429588	
		Acesulfame K	0.10	UY	ug/L	P429323	
		2,4,5-T	0.0040	UY	ug/L	P429588	
		AMPA	0.10	UY	ug/L	P429323	
		Acetaminophen	0.0080	UY	ug/L	P429588	
		Acetamiprid	0.0020	UY	ug/L	P429588	
		Endothall	0.25	UY	ug/L	P429323	
		Glufosinate	0.10	UY	ug/L	P429323	
		Glyphosate	0.10	UY	ug/L	P429323	
		Afidopyropen	0.0020	UY	ug/L	P429588	
		Sucralose	0.15	Y	ug/L	P429323	
		Bentazon	8.0E-04	UY	ug/L	P429588	MS
		Benzovindiflupyr	0.0020	UY	ug/L	P429588	
		Carbamazepine	8.0E-04	UY	ug/L	P429588	
		Clothianidin	0.0020	UY	ug/L	P429588	
		Dinotefuran	0.0020	UY	ug/L	P429588	
		Diuron	0.0020	UY	ug/L	P429588	
		Fenuron	0.032	UY	ug/L	P429588	
		Fluridone	8.0E-04	UY	ug/L	P429588	
		Imazapyr	0.026	Y	ug/L	P429588	
		Hydrocodone	0.0020	UY	ug/L	P429588	
		Ibuprofen	0.080	UY	ug/L	P429588	
		Imidacloprid	0.0027	IY	ug/L	P429588	
		Linuron	0.0040	UY	ug/L	P429588	
		Mandestrobin	0.0020	UY	ug/L	P429588	
		MCPP	0.0020	UY	ug/L	P429588	
		Naproxen	0.0080	UY	ug/L	P429588	
		Primidone	0.0040	UY	ug/L	P429588	
		Pyraclostrobin	0.0020	UY	ug/L	P429588	
		Silvex	0.0040	UY	ug/L	P429588	
		Thiamethoxam	0.0020	UY	ug/L	P429588	
		Tolfenpyrad	0.0020	UY	ug/L	P429588	
		Triclopyr	0.0040	UY	ug/L	P429588	
2406199	EPA 8270E	Aldrin	0.67	UY	ng/L	P429278	

Field ID: G4NW0382 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2406199	EPA 8270E	Alpha-BHC	0.10	UY	ng/L	P429278	
		Alpha-Chlordane	0.21	UY	ng/L	P429278	
		PCB-1016	2.1	UY	ng/L	P429278	
		Beta-BHC	0.10	UY	ng/L	P429278	
		PCB-1221	2.1	UY	ng/L	P429278	
		Beta-Cyfluthrin	1.3	UY	ng/L	P429278	
		PCB-1232	2.1	UY	ng/L	P429278	
		Bifenthrin	0.52	UY	ng/L	P429278	
		PCB-1242	2.1	UY	ng/L	P429278	
		PCB-1248	2.1	UY	ng/L	P429278	
		Chlorothalonil	3.7	UY	ng/L	P429278	
		PCB-1254	2.1	UY	ng/L	P429278	
		Cis-Nonachlor	0.21	UYJ	ng/L	P429278	CCV
		PCB-1260	2.1	UY	ng/L	P429278	
		Cypermethrin	1.5	UY	ng/L	P429278	
		Dacthal	0.15	UYJ	ng/L	P429278	LCS, MS, RPD
		DDD-p,p'	0.26	UY	ng/L	P429278	
		DDE-p,p'	0.21	UY	ng/L	P429278	
		DDT-p,p'	0.57	IY	ng/L	P429278	
		Delta-BHC	0.41	UY	ng/L	P429278	
		Deltamethrin	1.3	UY	ng/L	P429278	
		Dichlobenil	0.26	UY	ng/L	P429278	
		Dicofol	1.3	UY	ng/L	P429278	
		Dieldrin	0.41	UY	ng/L	P429278	
		Endosulfan I	0.41	UY	ng/L	P429278	
		Endosulfan II	0.41	UY	ng/L	P429278	
		Endosulfan Sulfate	0.31	UY	ng/L	P429278	
		Endrin	0.41	UY	ng/L	P429278	
		Endrin Aldehyde	0.77	UY	ng/L	P429278	
		Endrin Ketone	0.41	UY	ng/L	P429278	
		Esfenvalerate	0.77	UY	ng/L	P429278	
		Ethalfluralin	0.15	UY	ng/L	P429278	
		Fenpropathrin	0.26	UY	ng/L	P429278	RPD
		Gamma-BHC	0.13	UY	ng/L	P429278	
		Gamma-Chlordane	0.21	UY	ng/L	P429278	
		Heptachlor	0.21	UY	ng/L	P429278	
		Heptachlor Epoxide	0.26	UY	ng/L	P429278	RPD
		Hexachlorobenzene**	1.0	UY	ng/L	P429278	
		Kepone	5.2	UYJ	ng/L	P429278	CCV
		Lambda-Cyhalothrin	0.77	UY	ng/L	P429278	
		Methoprene	0.77	UY	ng/L	P429278	
		Methoxychlor	0.31	UY	ng/L	P429278	
		MGK-264	0.21	UY	ng/L	P429278	
		Mirex	0.36	UY	ng/L	P429278	

Field ID: G4NW0382 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2406199	EPA 8270E	Oxychlordane	0.31	UY	ng/L	P429278	
		Permethrin	1.7	UY	ng/L	P429278	
		Phenothrin	0.93	UY	ng/L	P429278	
		Piperonyl Butoxide	0.15	UY	ng/L	P429278	
		Prallethrin	2.1	UY	ng/L	P429278	
		Tau-Fluvalinate	0.26	UY	ng/L	P429278	
		Tetramethrin	0.77	UY	ng/L	P429278	
		Trans-Nonachlor	0.21	UY	ng/L	P429278	
		Triclosan Methyl	0.15	UY	ng/L	P429278	
		Trifluralin	0.21	UY	ng/L	P429278	
	EPA 8276	Chlordane	2.1	UY	ng/L	P429278	
		Toxaphene	15	UY	ng/L	P429278	
2406200	EPA 8270E	Oxybenzone**	10	UY	ng/L	P429507	
		Acetochlor	0.34	IY	ng/L	P429507	
		Octinoxate**	57	VY	ng/L	P429507	MS
		Alachlor	0.40	UY	ng/L	P429507	
		Avobenzone**	100	UY	ng/L	P429507	
		Ametryn	1.1	UY	ng/L	P429507	
		Atrazine	1.4E+03	Y	ng/L	P429507	
		PBDE-47**	4.0	UY	ng/L	P429507	
		Atrazine Desethyl	25	Y	ng/L	P429507	
		PBDE-99**	5.0	UY	ng/L	P429507	
		Azinphos Methyl	3.0	UY	ng/L	P429507	
		Tri-o-cresyl Phosphate**	6.0	UY	ng/L	P429507	
		Azoxystrobin	0.40	UY	ng/L	P429507	
		Bromacil	0.60	UY	ng/L	P429507	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UY	ng/L	P429507	
		Butylate	0.20	UY	ng/L	P429507	
		Dechlorane Plus**	30	UY	ng/L	P429507	
		Caffeine**	20	IY	ng/L	P429507	
		Dechlorane 602**	5.0	UY	ng/L	P429507	
		Carbophenothion	0.50	UY	ng/L	P429507	
		Dechlorane 603**	4.0	UY	ng/L	P429507	
		Carfentrazone Ethyl	0.15	UY	ng/L	P429507	
		Hexabromobenzene**	6.0	UY	ng/L	P429507	
		Chlorfenapyr	0.30	UY	ng/L	P429507	
		PBB-153**	8.0	UY	ng/L	P429507	
		Chlorpyrifos Ethyl	0.30	UY	ng/L	P429507	
		Pentabromotoluene**	3.0	UY	ng/L	P429507	
		Chlorpyrifos Methyl	0.10	UY	ng/L	P429507	
		Tris(2-chloroethyl) phosphate (TCEP)**	70	UY	ng/L	P429507	
		Coumaphos	1.0	UY	ng/L	P429507	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	UY	ng/L	P429507	
		Cyanazine	5.0	UY	ng/L	P429507	

Field ID: G4NW0382 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2406200	EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.5	UY	ng/L	P429507	
		Cyprodinil	0.20	UY	ng/L	P429507	
		Tetradecachloro-m-terphenyl**	7.5	UYJ	ng/L	P429507	LCS, MS
		Demeton	3.5	UY	ng/L	P429507	
		Diazinon	0.12	UY	ng/L	P429507	
		Difenoconazole	0.60	UY	ng/L	P429507	
		Dimethenamid	0.10	UY	ng/L	P429507	
		Dimethomorph	0.30	UY	ng/L	P429507	
		Disulfoton	0.60	UY	ng/L	P429507	
		Dithiopyr	1.0	UY	ng/L	P429507	
		EPTC	0.50	UY	ng/L	P429507	
		Ethion	0.30	UY	ng/L	P429507	
		Ethoprop	0.12	UY	ng/L	P429507	
		Etridiazole	0.10	UY	ng/L	P429507	
		Fenamiphos	0.45	UY	ng/L	P429507	
		Fenbuconazole	0.50	UY	ng/L	P429507	
		Fipronil	0.85	IY	ng/L	P429507	
		Fipronil Desulfinyl**	0.51	Y	ng/L	P429507	
		Fipronil Sulfide	0.22	IY	ng/L	P429507	
		Fipronil Sulfone	0.28	IY	ng/L	P429507	
		Fluazifop-P-butyl	0.10	UY	ng/L	P429507	
		Fludioxonil	0.10	UY	ng/L	P429507	
		Flumioxazin	3.0	UY	ng/L	P429507	
		Flutolanil	0.10	UY	ng/L	P429507	
		Fluxapyroxad	0.47	IY	ng/L	P429507	
		Fonofos	0.15	UY	ng/L	P429507	
		Hexazinone	0.50	UY	ng/L	P429507	
		Imazalil	0.65	UY	ng/L	P429507	
		Iprodione	0.50	UYJ	ng/L	P429507	LCS, MS
		Loratadine**	0.30	UY	ng/L	P429507	
		Malathion	0.35	UY	ng/L	P429507	
		Metalaxyl	0.50	UY	ng/L	P429507	
		Metolachlor	3.7	IY	ng/L	P429507	
		Metribuzin	0.40	UY	ng/L	P429507	
		Mevinphos	1.0	UY	ng/L	P429507	
		Molinate	0.25	UY	ng/L	P429507	
		Myclobutanil	0.35	UY	ng/L	P429507	
		Naled	2.5	UY	ng/L	P429507	
		Napropamide	0.70	UY	ng/L	P429507	
		Norflurazon	1.0	UY	ng/L	P429507	
		Oxadiazon	0.35	UY	ng/L	P429507	
		Oxyfluorfen	0.20	UY	ng/L	P429507	
		Parathion Ethyl	0.15	UY	ng/L	P429507	
		Parathion Methyl	0.20	UY	ng/L	P429507	

Field ID: G4NW0382 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2406200	EPA 8270E	Pendimethalin	0.75	UY	ng/L	P429507	
		Phenytoin**	5.3	UY	ng/L	P429507	MS
		Phorate	0.25	UY	ng/L	P429507	
		Prodiamine	0.20	UY	ng/L	P429507	
		Prometon	3.0	UY	ng/L	P429507	
		Prometryn	0.35	UY	ng/L	P429507	
		Pronamide	0.10	UY	ng/L	P429507	
		Propanil	0.10	UY	ng/L	P429507	
		Propargite	0.80	UY	ng/L	P429507	
		Propiconazole	0.60	UY	ng/L	P429507	
		Pyraflufen Ethyl	0.30	UY	ng/L	P429507	
		Pyridaben	1.4	UY	ng/L	P429507	
		Pyriproxyfen	0.25	UYJ	ng/L	P429507	LCS
		Simazine	0.25	UY	ng/L	P429507	
		Stirophos	0.40	UY	ng/L	P429507	
		Sulfentrazone	1.4	UY	ng/L	P429507	
		Tebuconazole	1.4	UY	ng/L	P429507	
		Terbufos	0.20	UY	ng/L	P429507	
		Terbuthylazine	0.20	UY	ng/L	P429507	
		Thiobencarb	0.50	UY	ng/L	P429507	
		Triadimefon	0.15	UY	ng/L	P429507	

Ref. Method and Comment:
EPA 8321B: Y - Sample was received with inadequate sample 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 8276: Y - Due to improper preservation; see NCR report.
EPA 8270E: V - Due to the presence of octinoxate in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes. Y - Due to improper preservation; see NCR report.
EPA 8270E: MS accuracy for bromacil and norflurazon 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: 9861

Event(s)	Job(s)	Sample(s)	Test(s)
NW-DIST-2023-05-05-01			

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

Observation: Samples received outside the acceptable temperature range.

Resolution: Data will be qualified as appropriate.

Authorized by/Date: Kyle Klug 5/8/2023

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: P429278

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P429278

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P429278

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

Reference Method: EPA 8270E
Batch ID: P429507

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P429507

Component	Result	Code	Units
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P429507

Component	Result	Code	Units
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	92		ng/L
Octinoxate	42	I	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P429507

Component	Result	Code	Units
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P429278

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: P429323

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: P429588

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: P429589

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P429589

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: P429278

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	37.1		P	10 - 92.0
Alpha-BHC	98.5		P	75 - 107
Alpha-Chlordane	59.6		P	50 - 108
Beta-BHC	83.5		P	36 - 138
Beta-Cyfluthrin	55.6		P	20 - 161
Bifenthrin	48.6		P	10 - 119
Chlorothalonil	61.5		P	26 - 186
Cis-Nonachlor	69.3		P	42 - 119
Cypermethrin	129		P	22 - 150
Dacthal	66.8		F	72 - 119
DDD-p,p'	78.9		P	45 - 107
DDE-p,p'	68.2		P	48 - 106
DDT-p,p'	68.2		P	48 - 110
Delta-BHC	100		P	54 - 140
Deltamethrin	64.1		P	22 - 189
Dichlobenil	116		P	36 - 117
Dicofol	56.1		P	46 - 155
Dieldrin	84.9		P	54 - 110
Endosulfan I	80.4		P	59 - 105
Endosulfan II	75.0		P	51 - 118
Endosulfan Sulfate	61.5		P	57 - 121
Endrin	82.5		P	10 - 120
Endrin Aldehyde	48.2		P	34 - 118
Endrin Ketone	87.8		P	69 - 177
Esfenvalerate	61.6		P	23 - 168
Ethalfluralin	70.0		P	49 - 99.0
Fenpropathrin	48.8		P	34 - 117
Gamma-BHC	114		P	72 - 117
Gamma-Chlordane	52.0		P	43 - 106
Heptachlor	78.8		P	41 - 98.0
Heptachlor Epoxide	69.4		P	57 - 106
Hexachlorobenzene	77.1		P	36 - 99.0
Kepone	126		P	16 - 215
Lambda-Cyhalothrin	65.1		P	21 - 177
Methoprene	45.3		P	10 - 119
Methoxychlor	79.5		P	60 - 112
MGK-264	92.2		P	26 - 122
Mirex	60.6		P	10 - 169
Oxychlordane	71.2		P	43 - 105
PCB-1016	79.5		P	48 - 112
PCB-1260	114		P	44 - 118
Permethrin	67.9		P	24 - 148
Phenothrin	50.3		P	10 - 106
Piperonyl Butoxide	87.3		P	10 - 139
Prallethrin	57.1		P	17 - 109
Tau-Fluvalinate	53.8		P	13 - 131
Tetramethrin	74.2		P	10 - 132
Trans-Nonachlor	46.1		P	44 - 106
Triclosan Methyl	73.5		P	59 - 109
Trifluralin	69.4		P	44 - 101

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P429507

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	123		P	42 - 162
Acetochlor	71.8		P	69 - 123
Alachlor	100		P	65 - 118
Ametryn	135		P	58 - 141
Atrazine	94.6		P	73 - 118
Atrazine Desethyl	109		P	32 - 125
Avobenzone	170		P	40 - 203
Azinphos Methyl	193		P	36 - 197
Azoxystrobin	98.7		P	58 - 226
Bromacil	94.8		P	48 - 120
Butylate	57.6		P	27 - 85.0
Caffeine	104		P	40 - 137
Carbophenothion	110		P	54 - 132
Carfentrazone Ethyl	103		P	60 - 142
Chlorfenapyr	71.6		P	53 - 117
Chlorpyrifos Ethyl	73.2		P	59 - 116
Chlorpyrifos Methyl	82.0		P	66 - 119
Coumaphos	99.4		P	11 - 234
Cyanazine	210		P	61 - 248
Cyprodinil	101		P	50 - 147
Dechlorane 602	94.0		P	50 - 150
Dechlorane 603	138		P	50 - 150
Dechlorane Plus	95.2		P	47 - 182
Demeton	81.6		P	30 - 138
Diazinon	111		P	67 - 126
Difenoconazole	86.3		P	38 - 205
Dimethenamid	103		P	57 - 111
Dimethomorph	152		P	16 - 212
Disulfoton	98.2		P	46 - 126
Dithiopyr	106		P	62 - 115
EPTC	46.5		P	28 - 80.0
Ethion	81.4		P	24 - 122
Ethoprop	82.2		P	62 - 113
Etridiazole	60.6		P	28 - 92.0
Fenamiphos	68.3		P	57 - 128
Fenbuconazole	67.7		P	52 - 155
Fipronil	76.6		P	63 - 130
Fipronil Desulfinyl	87.3		P	61 - 130
Fipronil Sulfide	91.0		P	56 - 117
Fipronil Sulfone	82.4		P	52 - 118
Fluazifop-P-butyl	104		P	61 - 128
Fludioxonil	82.5		P	59 - 129
Flumioxazin	137		P	30 - 250
Flutolanil	102		P	53 - 127
Fluxapyroxad	81.5		P	42 - 132
Fonofos	109		P	61 - 110
Hexabromobenzene	128		P	50 - 150
Hexazinone	87.3		P	46 - 139
Imazalil	86.0		P	40 - 139
Iprodione	31.2		F	40 - 146
Loratadine	168		P	10 - 224
Malathion	80.7		P	61 - 135

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P429507

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	91.3		P	58 - 121
Metolachlor	77.2		P	64 - 118
Metribuzin	109		P	45 - 245
Mevinphos	63.1		P	49 - 118
Molinate	58.1		P	42 - 92.0
Myclobutanil	99.8		P	55 - 127
Naled	35.0		P	10 - 114
Napropamide	82.8		P	39 - 121
Norflurazon	96.9		P	55 - 129
Octinoxate	166		P	26 - 166
Oxadiazon	88.9		P	54 - 115
Oxybenzone	118		P	49 - 135
Oxyfluorfen	79.7		P	64 - 139
Parathion Ethyl	90.3		P	70 - 111
Parathion Methyl	89.5		P	76 - 136
PBB-153	145		P	50 - 150
PBDE-47	116		P	41 - 148
PBDE-99	114		P	38 - 147
Pendimethalin	85.9		P	52 - 118
Pentabromotoluene	126		P	50 - 150
Phenytoin	136		P	10 - 162
Phorate	99.9		P	40 - 122
Prodiamine	55.9		P	26 - 141
Prometon	105		P	54 - 122
Prometryn	124		P	61 - 128
Pronamide	110		P	72 - 121
Propanil	106		P	45 - 144
Propargite	66.0		P	10 - 199
Propiconazole	75.9		P	56 - 127
Pyraflufen Ethyl	98.0		P	56 - 140
Pyridaben	77.6		P	26 - 211
Pyriproxyfen	221		F	33 - 194
Simazine	82.6		P	67 - 121
Stirophos	58.9		P	20 - 142
Sulfentrazone	62.2		P	21 - 144
Tebuconazole	68.2		P	10 - 122
Terbufos	119		P	60 - 129
Terbuthylazine	85.3		P	69 - 113
Tetradecachloro-m-terphenyl	233		F	70 - 200
Thiobencarb	105		P	51 - 120
Tri-o-cresyl Phosphate	118		P	49 - 150
Triadimefon	94.9		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.5		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	119		P	70 - 180

Reference Method: EPA 8276
Batch ID: P429278

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.7		P	61 - 116
Toxaphene	90.8		P	48 - 124

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P429323

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	144		P	40 - 150
AMPA	97.2		P	40 - 150
Endothall	77.8		P	40 - 150
Glufosinate	79.1		P	40 - 150
Glyphosate	96.7		P	40 - 150
Sucralose	118		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429588

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	87.9		P	40 - 150
2,4,5-T	94.3		P	40 - 150
Acetaminophen	95.9		P	30 - 150
Acetamiprid	81.4		P	40 - 150
Afidopyropen	64.9		P	30 - 150
Bentazon	149		P	30 - 150
Benzovindiflupyr	89.5		P	40 - 150
Carbamazepine	92.5		P	40 - 150
Clothianidin	88.4		P	40 - 150
Dinotefuran	107		P	40 - 150
Diuron	89.3		P	40 - 150
Fenuron	93.2		P	40 - 150
Fluridone	86.4		P	40 - 150
Hydrocodone	93.3		P	40 - 150
Ibuprofen	99.5		P	40 - 150
Imazapyr	87.5		P	40 - 150
Imidacloprid	97.2		P	40 - 150
Linuron	89.7		P	40 - 150
Mandestrobin	87.5		P	40 - 150
MCPP	92.8		P	40 - 150
Naproxen	101		P	40 - 150
Primidone	89.2		P	40 - 150
Pyraclostrobin	86.6		P	40 - 150
Silvex	96.2		P	40 - 150
Thiamethoxam	83.8		P	40 - 150
Tolfenpyrad	54.8		P	30 - 150
Triclopyr	85.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	82.2		P	40 - 150
Aldicarb	53.3		P	30 - 150
Aldicarb Sulfone	86.8		P	40 - 150
Aldicarb Sulfoxide	110		P	40 - 150
Carbaryl	89.6		P	40 - 150
Carbofuran	85.0		P	40 - 150
Methiocarb	88.7		P	40 - 150
Methomyl	87.2		P	40 - 150
Oxamyl	92.1		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P429589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propoxur	78.7		P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P429278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404645	Aldrin	47.8	50.2	P/P	20 - 82.0
2404645	Alpha-BHC	94.3	95.7	P/P	71 - 109
2404645	Alpha-Chlordane	73.2	71.5	P/P	42 - 106
2404645	Beta-BHC	141	102	P/P	69 - 180
2404645	Beta-Cyfluthrin	113	85.6	P/P	18 - 175
2404645	Bifenthrin	72.8	53.5	P/P	21 - 128
2404645	Chlorothalonil	32.6	65.1	P/P	10 - 300
2404645	Cis-Nonachlor	51.3	52.7	P/P	34 - 106
2404645	Cypermethrin	93.4	120	P/P	22 - 158
2404645	Dacthal	146	107	F/P	54 - 116
2404645	DDD-p,p'	79.0	75.3	P/P	34 - 107
2404645	DDE-p,p'	53.8	39.6	P/P	33 - 110
2404645	DDT-p,p'	68.5	60.2	P/P	50 - 122
2404645	Delta-BHC	95.1	106	P/P	77 - 193
2404645	Deltamethrin	58.7	43.7	P/P	10 - 195
2404645	Dichlobenil	96.7	80.3	P/P	25 - 113
2404645	Dicofol	71.8	67.3	P/P	38 - 247
2404645	Dieldrin	65.5	62.9	P/P	45 - 118
2404645	Endosulfan I	66.9	65.2	P/P	51 - 106
2404645	Endosulfan II	69.1	69.5	P/P	37 - 122
2404645	Endosulfan Sulfate	125	87.8	P/P	43 - 132
2404645	Endrin	93.1	71.3	P/P	29 - 101
2404645	Endrin Aldehyde	68.9	78.2	P/P	19 - 110
2404645	Endrin Ketone	80.1	70.5	P/P	60 - 140
2404645	Esfenvalerate	50.8	49.1	P/P	26 - 199
2404645	Ethalfluralin	66.9	71.9	P/P	45 - 99.0
2404645	Fenpropathrin	95.4	66.5	P/P	35 - 120
2404645	Gamma-BHC	111	95.7	P/P	63 - 128
2404645	Gamma-Chlordane	69.8	70.8	P/P	40 - 104
2404645	Heptachlor	69.6	61.1	P/P	36 - 97.0
2404645	Heptachlor Epoxide	108	74.2	P/P	49 - 184
2404645	Hexachlorobenzene	85.6	70.6	P/P	39 - 96.0
2404645	Kepone	111	54.4	P/P	10 - 217
2404645	Lambda-Cyhalothrin	94.3	75.8	P/P	21 - 193
2404645	Methoprene	62.0	56.4	P/P	20 - 106
2404645	Methoxychlor	53.7	60.8	P/P	53 - 118
2404645	MGK-264	53.3	49.7	P/P	40 - 118
2404645	Mirex	48.4	39.2	P/P	26 - 92.0
2404645	Oxychlordane	61.7	75.4	P/P	44 - 99.0
2404645	Permethrin	53.1	75.4	P/P	33 - 182
2404645	Phenothrin	74.8	77.7	P/P	10 - 129
2404645	Piperonyl Butoxide	61.6	86.1	P/P	10 - 211
2404645	Prallethrin	73.3	73.2	P/P	24 - 113
2404645	Tau-Fluvalinate	50.0	39.3	P/P	14 - 149
2404645	Tetramethrin	117	87.8	P/P	17 - 151
2404645	Trans-Nonachlor	72.4	64.7	P/P	42 - 102
2404645	Triclosan Methyl	65.4	84.4	P/P	48 - 108
2404645	Trifluralin	61.5	66.2	P/P	47 - 96.0
2405764	PCB-1016	64.4	79.8	P/P	46 - 111
2405764	PCB-1260	73.4	87.4	P/P	45 - 114

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P429507

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405052	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	110	119	P/P	26 - 165
2405052	Acetochlor	70.2	72.8	P/P	67 - 124
2405052	Alachlor	82.7	81.1	P/P	60 - 120
2405052	Ametryn	136	137	P/P	54 - 216
2405052	Atrazine	86.2	103	P/P	66 - 128
2405052	Atrazine Desethyl	109	99.7	P/P	15 - 122
2405052	Avobenzone	149	163	P/P	37 - 178
2405052	Azinphos Methyl	162	163	P/P	40 - 292
2405052	Azoxystrobin	106	122	P/P	35 - 220
2405052	Butylate	57.3	59.0	P/P	20 - 83.0
2405052	Caffeine	99.5	95.8	P/P	10 - 194
2405052	Carbophenothion	92.7	98.7	P/P	57 - 127
2405052	Carfentrazone Ethyl	92.7	94.9	P/P	51 - 141
2405052	Chlorfenapyr	62.5	67.9	P/P	46 - 111
2405052	Chlorpyrifos Ethyl	61.8	60.7	P/P	52 - 120
2405052	Chlorpyrifos Methyl	81.9	89.1	P/P	63 - 119
2405052	Coumaphos	80.9	84.9	P/P	10 - 228
2405052	Cyanazine	234	235	P/P	59 - 241
2405052	Cyprodinil	97.6	107	P/P	47 - 146
2405052	Dechlorane 602	79.1	82.3	P/P	50 - 150
2405052	Dechlorane 603	118	128	P/P	50 - 150
2405052	Dechlorane Plus	82.0	81.2	P/P	50 - 150
2405052	Demeton	83.4	86.4	P/P	40 - 136
2405052	Diazinon	112	113	P/P	69 - 132
2405052	Difenoconazole	68.4	75.9	P/P	57 - 258
2405052	Dimethenamid	91.6	95.9	P/P	54 - 110
2405052	Dimethomorph	166	171	P/P	28 - 210
2405052	Disulfoton	96.7	93.9	P/P	43 - 133
2405052	Dithiopyr	85.4	90.2	P/P	39 - 116
2405052	EPTC	44.9	46.4	P/P	20 - 78.0
2405052	Ethion	92.1	102	P/P	17 - 119
2405052	Ethoprop	89.9	96.6	P/P	66 - 120
2405052	Etridiazole	56.8	57.2	P/P	28 - 96.0
2405052	Fenamiphos	69.8	69.4	P/P	41 - 126
2405052	Fenbuconazole	54.4	57.0	P/P	42 - 169
2405052	Fipronil	65.7	68.9	P/P	61 - 132
2405052	Fipronil Desulfinyl	78.4	77.4	P/P	56 - 132
2405052	Fipronil Sulfide	71.8	69.9	P/P	48 - 119
2405052	Fipronil Sulfone	72.8	76.4	P/P	42 - 131
2405052	Fluazifop-P-butyl	103	105	P/P	53 - 131
2405052	Fludioxonil	80.7	79.2	P/P	56 - 127
2405052	Flumioxazin	116	127	P/P	19 - 300
2405052	Flutolanil	93.8	102	P/P	41 - 127
2405052	Fluxapyroxad	71.0	74.8	P/P	42 - 172
2405052	Fonofos	110	110	P/P	59 - 113
2405052	Hexabromobenzene	120	121	P/P	50 - 150
2405052	Hexazinone	94.9	92.6	P/P	66 - 122
2405052	Imazalil	59.5	58.2	P/P	21 - 283
2405052	Iprodione	34.0	42.2	F/F	43 - 150
2405052	Loratadine	148	146	P/P	23 - 201
2405052	Malathion	75.2	77.7	P/P	58 - 136
2405052	Metalaxyl	80.0	73.5	P/P	55 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P429507

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405052	Metolachlor	76.8	76.4	P/P	57 - 121
2405052	Metribuzin	107	108	P/P	58 - 294
2405052	Mevinphos	67.3	71.4	P/P	50 - 126
2405052	Molinate	59.9	61.6	P/P	42 - 93.0
2405052	Myclobutanil	96.0	95.7	P/P	55 - 125
2405052	Naled	41.0	50.6	P/P	18 - 200
2405052	Napropamide	72.7	79.1	P/P	39 - 110
2405052	Octinoxate	161	177	F/F	21 - 159
2405052	Oxadiazon	83.4	82.8	P/P	43 - 112
2405052	Oxybenzone	107	111	P/P	41 - 142
2405052	Oxyfluorfen	89.0	84.4	P/P	64 - 153
2405052	Parathion Ethyl	93.6	90.8	P/P	69 - 114
2405052	Parathion Methyl	90.8	101	P/P	79 - 139
2405052	PBB-153	126	140	P/P	50 - 150
2405052	PBDE-47	103	110	P/P	27 - 144
2405052	PBDE-99	95.1	101	P/P	18 - 150
2405052	Pendimethalin	85.9	95.6	P/P	50 - 139
2405052	Pentabromotoluene	116	124	P/P	50 - 150
2405052	Phenytoin	156	162	F/F	10 - 146
2405052	Phorate	107	121	P/P	54 - 161
2405052	Prodiamine	61.2	61.7	P/P	30 - 161
2405052	Prometon	94.9	96.1	P/P	45 - 134
2405052	Prometryn	112	110	P/P	45 - 137
2405052	Pronamide	101	107	P/P	65 - 133
2405052	Propanil	114	112	P/P	49 - 142
2405052	Propargite	59.8	60.3	P/P	10 - 203
2405052	Propiconazole	70.7	73.3	P/P	38 - 146
2405052	Pyraflufen Ethyl	83.6	77.2	P/P	34 - 153
2405052	Pyridaben	47.7	55.5	P/P	12 - 192
2405052	Pyriproxyfen	128	171	P/P	33 - 180
2405052	Simazine	56.6	66.9	P/P	51 - 157
2405052	Stirophos	40.1	42.0	P/P	10 - 128
2405052	Sulfentrazone	73.4	59.3	P/P	53 - 186
2405052	Tebuconazole	63.7	63.2	P/P	10 - 133
2405052	Terbufos	115	120	P/P	65 - 139
2405052	Terbuthylazine	81.3	85.4	P/P	66 - 117
2405052	Tetradecachloro-m-terphenyl	227	251	F/F	70 - 200
2405052	Thiobencarb	92.0	95.8	P/P	51 - 119
2405052	Tri-o-cresyl Phosphate	102	109	P/P	31 - 144
2405052	Triadimefon	86.2	90.0	P/P	48 - 119
2405052	Tris(1-chloro-2-propyl) phosphate (TCPP)	100	102	P/P	50 - 150
2405052	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103	109	P/P	50 - 150
2405052	Tris(2-chloroethyl) phosphate (TCEP)	106	108	P/P	70 - 180

Reference Method: EPA 8276
Batch ID: P429278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405764	Chlordane	76.6	83.0	P/P	53 - 126
2405764	Toxaphene	93.8	96.0	P/P	56 - 211

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P429323

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405697	Acesulfame K	133	135	P/P	40 - 150
2405697	AMPA	91.2	90.8	P/P	40 - 150
2405697	Endothall	77.2	76.0	P/P	40 - 150
2405697	Glufosinate	67.6	69.6	P/P	40 - 150
2405697	Glyphosate	82.8	91.7	P/P	40 - 150
2405697	Sucralose	109	136	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429588

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405849	2,4-D	87.0	93.4	P/P	40 - 150
2405849	2,4,5-T	87.1	89.0	P/P	40 - 150
2405849	Acetaminophen	90.9	93.3	P/P	30 - 150
2405849	Acetamiprid	91.0	92.7	P/P	40 - 150
2405849	Afidopyropen	86.1	100	P/P	30 - 150
2405849	Bentazon	162	156	F/F	30 - 150
2405849	Benzovindiflupyr	77.8	79.6	P/P	40 - 150
2405849	Carbamazepine	87.4	93.2	P/P	40 - 150
2405849	Clothianidin	84.4	89.7	P/P	40 - 150
2405849	Dinotefuran	96.1	96.2	P/P	40 - 150
2405849	Diuron	67.8	77.3	P/P	40 - 150
2405849	Fenuron	72.2	75.2	P/P	40 - 150
2405849	Fluridone	84.2	83.9	P/P	40 - 150
2405849	Hydrocodone	75.3	78.8	P/P	40 - 150
2405849	Ibuprofen	68.9	83.6	P/P	40 - 150
2405849	Imazapyr	107	108	P/P	40 - 150
2405849	Imidacloprid	101	105	P/P	40 - 150
2405849	Linuron	78.5	82.6	P/P	40 - 150
2405849	Mandestrobin	82.1	81.5	P/P	40 - 150
2405849	MCPP	90.4	99.1	P/P	40 - 150
2405849	Naproxen	98.8	85.3	P/P	40 - 150
2405849	Primidone	77.6	82.1	P/P	40 - 150
2405849	Pyraclostrobin	78.0	81.8	P/P	40 - 150
2405849	Silvex	101	100	P/P	40 - 150
2405849	Thiamethoxam	84.1	85.1	P/P	40 - 150
2405849	Tolfenpyrad	47.2	49.0	P/P	30 - 150
2405849	Triclopyr	87.0	96.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407608	3-Hydroxycarbofuran	82.1	82.2	P/P	40 - 150
2407608	Aldicarb	57.6	74.7	P/P	30 - 150
2407608	Aldicarb Sulfone	74.7	73.8	P/P	40 - 150
2407608	Aldicarb Sulfoxide	53.5	53.4	P/P	40 - 150
2407608	Carbaryl	80.5	84.7	P/P	40 - 150
2407608	Carbofuran	73.8	73.8	P/P	40 - 150
2407608	Methiocarb	75.8	78.2	P/P	40 - 150
2407608	Methomyl	76.7	76.4	P/P	40 - 150
2407608	Oxamyl	79.9	78.7	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P429589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407608	Propoxur	72.8	73.2	P/P	40 - 150

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P429278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404645	Aldrin	4.87	Spike	P	0 - 41
2404645	Alpha-BHC	1.51	Spike	P	0 - 25
2404645	Alpha-Chlordane	2.34	Spike	P	0 - 33
2404645	Beta-BHC	32.1	Spike	P	0 - 36
2404645	Beta-Cyfluthrin	27.3	Spike	P	0 - 42
2404645	Bifenthrin	30.7	Spike	P	0 - 53
2404645	Chlorothalonil	66.5	Spike	P	0 - 71
2404645	Cis-Nonachlor	2.74	Spike	P	0 - 29
2404645	Cypermethrin	25.2	Spike	P	0 - 40
2404645	Dacthal	30.6	Spike	F	0 - 26
2404645	DDD-p,p'	4.80	Spike	P	0 - 39
2404645	DDE-p,p'	30.5	Spike	P	0 - 33
2404645	DDT-p,p'	12.9	Spike	P	0 - 40
2404645	Delta-BHC	10.8	Spike	P	0 - 37
2404645	Deltamethrin	29.4	Spike	P	0 - 100
2404645	Dichlobenil	18.5	Spike	P	0 - 40
2404645	Dicofol	6.41	Spike	P	0 - 31
2404645	Dieldrin	3.62	Spike	P	0 - 27
2404645	Endosulfan I	2.64	Spike	P	0 - 23
2404645	Endosulfan II	0.599	Spike	P	0 - 28
2404645	Endosulfan Sulfate	34.9	Spike	P	0 - 38
2404645	Endrin	26.6	Spike	P	0 - 63
2404645	Endrin Aldehyde	12.6	Spike	P	0 - 60
2404645	Endrin Ketone	12.8	Spike	P	0 - 37
2404645	Esfenvalerate	3.41	Spike	P	0 - 52
2404645	Ethalfluralin	7.17	Spike	P	0 - 23
2404645	Fenpropathrin	35.7	Spike	F	0 - 32
2404645	Gamma-BHC	14.4	Spike	P	0 - 17
2404645	Gamma-Chlordane	1.51	Spike	P	0 - 40
2404645	Heptachlor	12.9	Spike	P	0 - 29
2404645	Heptachlor Epoxide	32.8	Spike	F	0 - 25
2404645	Hexachlorobenzene	19.2	Spike	P	0 - 36
2404645	Kepone	68.4	Spike	P	0 - 93
2404645	Lambda-Cyhalothrin	21.7	Spike	P	0 - 55
2404645	Methoprene	9.48	Spike	P	0 - 53
2404645	Methoxychlor	12.4	Spike	P	0 - 29
2404645	MGK-264	6.94	Spike	P	0 - 35
2404645	Mirex	21.0	Spike	P	0 - 46
2404645	Oxychlordane	20.0	Spike	P	0 - 29
2404645	Permethrin	34.6	Spike	P	0 - 44
2404645	Phenothrin	3.80	Spike	P	0 - 56
2404645	Piperonyl Butoxide	33.1	Spike	P	0 - 100
2404645	Prallethrin	0.176	Spike	P	0 - 42
2404645	Tau-Fluvalinate	23.8	Spike	P	0 - 54
2404645	Tetramethrin	28.8	Spike	P	0 - 51
2404645	Trans-Nonachlor	11.3	Spike	P	0 - 37
2404645	Triclosan Methyl	25.3	Spike	P	0 - 31
2404645	Trifluralin	7.37	Spike	P	0 - 30
2405764	PCB-1016	21.4	Spike	P	0 - 32
2405764	PCB-1260	17.4	Spike	P	0 - 31

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P429507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405052	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	7.35	Spike	P	0 - 37
2405052	Acetochlor	3.60	Spike	P	0 - 28
2405052	Alachlor	1.98	Spike	P	0 - 30
2405052	Ametryn	0.661	Spike	P	0 - 32
2405052	Atrazine	8.90	Spike	P	0 - 41
2405052	Atrazine Desethyl	7.87	Spike	P	0 - 36
2405052	Avobenzone	9.11	Spike	P	0 - 36
2405052	Azinphos Methyl	0.0844	Spike	P	0 - 75
2405052	Azoxystrobin	13.2	Spike	P	0 - 39
2405052	Bromacil	0.648	Spike	P	0 - 33
2405052	Butylate	2.81	Spike	P	0 - 44
2405052	Caffeine	3.26	Spike	P	0 - 74
2405052	Carbophenothion	6.29	Spike	P	0 - 25
2405052	Carfentrazone Ethyl	2.31	Spike	P	0 - 27
2405052	Chlorfenapyr	8.39	Spike	P	0 - 24
2405052	Chlorpyrifos Ethyl	1.69	Spike	P	0 - 26
2405052	Chlorpyrifos Methyl	8.35	Spike	P	0 - 26
2405052	Coumaphos	4.82	Spike	P	0 - 28
2405052	Cyanazine	0.632	Spike	P	0 - 48
2405052	Cyprodinil	9.56	Spike	P	0 - 29
2405052	Dechlorane 602	4.00	Spike	P	0 - 30
2405052	Dechlorane 603	8.10	Spike	P	0 - 30
2405052	Dechlorane Plus	0.976	Spike	P	0 - 30
2405052	Demeton	3.54	Spike	P	0 - 33
2405052	Diazinon	0.719	Spike	P	0 - 29
2405052	Difenoconazole	10.4	Spike	P	0 - 34
2405052	Dimethenamid	4.57	Spike	P	0 - 39
2405052	Dimethomorph	2.72	Spike	P	0 - 51
2405052	Disulfoton	2.96	Spike	P	0 - 30
2405052	Dithiopyr	5.39	Spike	P	0 - 26
2405052	EPTC	3.37	Spike	P	0 - 43
2405052	Ethion	10.7	Spike	P	0 - 79
2405052	Ethoprop	7.12	Spike	P	0 - 29
2405052	Etridiazole	0.606	Spike	P	0 - 33
2405052	Fenamiphos	0.499	Spike	P	0 - 40
2405052	Fenbuconazole	4.16	Spike	P	0 - 74
2405052	Fipronil	4.82	Spike	P	0 - 29
2405052	Fipronil Desulfinyl	1.15	Spike	P	0 - 32
2405052	Fipronil Sulfide	2.73	Spike	P	0 - 30
2405052	Fipronil Sulfone	4.79	Spike	P	0 - 33
2405052	Fluazifop-P-butyl	2.08	Spike	P	0 - 38
2405052	Fludioxonil	1.84	Spike	P	0 - 29
2405052	Flumioxazin	9.05	Spike	P	0 - 51
2405052	Flutolanil	8.36	Spike	P	0 - 25
2405052	Fluxapyroxad	5.17	Spike	P	0 - 45
2405052	Fonofos	0.467	Spike	P	0 - 27
2405052	Hexabromobenzene	0.424	Spike	P	0 - 30
2405052	Hexazinone	1.67	Spike	P	0 - 30
2405052	Imazalil	2.21	Spike	P	0 - 100
2405052	Iprodione	21.6	Spike	P	0 - 33
2405052	Loratadine	1.03	Spike	P	0 - 56

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P429507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405052	Malathion	3.26	Spike	P	0 - 37
2405052	Metalaxyl	1.94	Spike	P	0 - 40
2405052	Metolachlor	0.492	Spike	P	0 - 29
2405052	Metribuzin	0.842	Spike	P	0 - 45
2405052	Mevinphos	5.89	Spike	P	0 - 29
2405052	Molinate	2.79	Spike	P	0 - 33
2405052	Myclobutanil	0.312	Spike	P	0 - 26
2405052	Naled	21.0	Spike	P	0 - 37
2405052	Napropamide	8.36	Spike	P	0 - 44
2405052	Norflurazon	0.371	Spike	P	0 - 30
2405052	Octinoxate	9.10	Spike	P	0 - 45
2405052	Oxadiazon	0.712	Spike	P	0 - 28
2405052	Oxybenzone	3.89	Spike	P	0 - 46
2405052	Oxyfluorfen	5.35	Spike	P	0 - 28
2405052	Parathion Ethyl	3.04	Spike	P	0 - 31
2405052	Parathion Methyl	10.4	Spike	P	0 - 29
2405052	PBB-153	10.1	Spike	P	0 - 30
2405052	PBDE-47	6.55	Spike	P	0 - 36
2405052	PBDE-99	6.06	Spike	P	0 - 40
2405052	Pendimethalin	10.7	Spike	P	0 - 33
2405052	Pentabromotoluene	7.15	Spike	P	0 - 30
2405052	Phenytoin	3.48	Spike	P	0 - 100
2405052	Phorate	11.7	Spike	P	0 - 36
2405052	Prodiamine	0.880	Spike	P	0 - 71
2405052	Prometon	1.35	Spike	P	0 - 36
2405052	Prometryn	1.38	Spike	P	0 - 28
2405052	Pronamide	5.59	Spike	P	0 - 24
2405052	Propanil	2.46	Spike	P	0 - 28
2405052	Propargite	0.974	Spike	P	0 - 43
2405052	Propiconazole	3.50	Spike	P	0 - 33
2405052	Pyraflufen Ethyl	7.95	Spike	P	0 - 29
2405052	Pyridaben	8.96	Spike	P	0 - 30
2405052	Pyriproxyfen	29.1	Spike	P	0 - 79
2405052	Simazine	5.80	Spike	P	0 - 29
2405052	Stirophos	4.53	Spike	P	0 - 61
2405052	Sulfentrazone	21.3	Spike	P	0 - 33
2405052	Tebuconazole	0.696	Spike	P	0 - 69
2405052	Terbufos	4.50	Spike	P	0 - 29
2405052	Terbuthylazine	4.89	Spike	P	0 - 32
2405052	Tetradecachloro-m-terphenyl	10.0	Spike	P	0 - 30
2405052	Thiobencarb	4.02	Spike	P	0 - 26
2405052	Tri-o-cresyl Phosphate	7.00	Spike	P	0 - 33
2405052	Triadimefon	4.30	Spike	P	0 - 28
2405052	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.59	Spike	P	0 - 30
2405052	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	6.05	Spike	P	0 - 30
2405052	Tris(2-chloroethyl) phosphate (TCEP)	2.22	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P429278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405764	Chlordane	7.50	Spike	P	0 - 25
2405764	Toxaphene	2.38	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P429323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405697	Acesulfame K	1.22	Spike	P	0 - 30
2405697	AMPA	0.419	Spike	P	0 - 30
2405697	Endothall	1.55	Spike	P	0 - 30
2405697	Glufosinate	3.03	Spike	P	0 - 30
2405697	Glyphosate	10.1	Spike	P	0 - 30
2405697	Sucralose	19.1	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P429588

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405849	2,4-D	6.87	Spike	P	0 - 30
2405849	2,4,5-T	2.12	Spike	P	0 - 30
2405849	Acetaminophen	2.57	Spike	P	0 - 30
2405849	Acetamiprid	1.85	Spike	P	0 - 30
2405849	Afidopyropen	15.2	Spike	P	0 - 30
2405849	Bentazon	2.87	Spike	P	0 - 30
2405849	Benzovindiflupyr	2.18	Spike	P	0 - 30
2405849	Carbamazepine	6.11	Spike	P	0 - 30
2405849	Clothianidin	6.06	Spike	P	0 - 30
2405849	Dinotefuran	0.105	Spike	P	0 - 30
2405849	Diuron	11.5	Spike	P	0 - 30
2405849	Fenuron	4.10	Spike	P	0 - 30
2405849	Fluridone	0.407	Spike	P	0 - 30
2405849	Hydrocodone	4.60	Spike	P	0 - 30
2405849	Ibuprofen	19.2	Spike	P	0 - 30
2405849	Imazapyr	0.875	Spike	P	0 - 30
2405849	Imidacloprid	3.35	Spike	P	0 - 30
2405849	Linuron	5.09	Spike	P	0 - 30
2405849	Mandestrobin	0.769	Spike	P	0 - 30
2405849	MCPP	9.22	Spike	P	0 - 30
2405849	Naproxen	14.6	Spike	P	0 - 30
2405849	Primidone	5.58	Spike	P	0 - 30
2405849	Pyraclostrobin	4.78	Spike	P	0 - 30
2405849	Silvex	0.907	Spike	P	0 - 30
2405849	Thiamethoxam	1.21	Spike	P	0 - 30
2405849	Tolfenpyrad	3.59	Spike	P	0 - 30
2405849	Triclopyr	9.91	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P429589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407608	3-Hydroxycarbofuran	0.0561	Spike	P	0 - 30
2407608	Aldicarb	25.8	Spike	P	0 - 30
2407608	Aldicarb Sulfone	1.23	Spike	P	0 - 30
2407608	Aldicarb Sulfoxide	0.257	Spike	P	0 - 30
2407608	Carbaryl	5.17	Spike	P	0 - 30
2407608	Carbofuran	0.0298	Spike	P	0 - 30
2407608	Methiocarb	3.16	Spike	P	0 - 30
2407608	Methomyl	0.487	Spike	P	0 - 30
2407608	Oxamyl	1.49	Spike	P	0 - 30
2407608	Propoxur	0.561	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2406197
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	53.1	P	30 - 160

Lab Sample ID: 2406198
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	81.2	P	30 - 160
EPA 8321B	Diuron-d6	64.7	P	30 - 160
EPA 8321B	Endothall-d6	94.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.6	P	30 - 160
EPA 8321B	Primidone-d5	73.0	P	30 - 160
EPA 8321B	Sucralose-d6	122	P	30 - 160

Lab Sample ID: 2406199
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	109	P	29 - 130
EPA 8270E	Decachlorobiphenyl	72.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	76.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	88.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	60.8	P	30 - 101
EPA 8276	PCNB	115	P	48 - 121

Lab Sample ID: 2406200
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	113	P	20 - 200
EPA 8270E	Simazine-d10	115	P	62 - 142
EPA 8270E	Terbufos-d10	94.4	P	58 - 132
EPA 8270E	Terphenyl-d14	97.7	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A118997
Included Lab Sample IDs: 2406198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	151	150	P/P	60 - 160
Sucralose	109	123	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A119009
Included Lab Sample IDs: 2406198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	90.2	97.5	P/P	60 - 160
Endothall	82.0	78.9	P/P	60 - 160
Glufosinate	79.5	79.6	P/P	60 - 160
Glyphosate	98.9	94.2	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A119083
Included Lab Sample IDs: 2406200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	80 - 120
Avobenzone	105		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	105		P	80 - 120
Dechlorane Plus	89.6		P	80 - 120
Hexabromobenzene	102		P	80 - 120
Octinoxate	97.5		P	80 - 120
Oxybenzone	95.5		P	80 - 120
PBB-153	103		P	80 - 120
PBDE-47	96.9		P	80 - 120
PBDE-99	104		P	80 - 120
Pentabromotoluene	102		P	80 - 120
Tetradecachloro-m-terphenyl	105		P	80 - 120
Tri-o-cresyl Phosphate	97.6		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	81.1		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	97.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119089
Included Lab Sample IDs: 2406199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.5		P	80 - 120
PCB-1260	108		P	80 - 120

Reference Method: EPA 8276
Run ID: A119118
Included Lab Sample IDs: 2406199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.4		P	80 - 120
Toxaphene	91.1		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119165
Included Lab Sample IDs: 2406199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	108		P	80 - 120
Alpha-BHC	99.1		P	80 - 120
Alpha-Chlordane	94.5		P	80 - 120
Beta-BHC	95.0		P	80 - 120
Beta-Cyfluthrin	97.0		P	80 - 120
Bifenthrin	104		P	80 - 120
Chlorothalonil	94.1		P	80 - 120
Cis-Nonachlor	74.1*		F	80 - 120
Cypermethrin	103		P	80 - 120
Dacthal	81.4		P	80 - 120
DDD-p,p'	80.6		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	99.9		P	80 - 120
Delta-BHC	83.7		P	80 - 120
Deltamethrin	93.8		P	80 - 120
Dichlobenil	81.6		P	80 - 120
Dicofol	94.9		P	80 - 120
Dieldrin	114		P	80 - 120
Endosulfan I	96.8		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	89.7		P	80 - 120
Endrin	82.1		P	80 - 120
Endrin Aldehyde	110		P	80 - 120
Endrin Ketone	109		P	80 - 120
Esfenvalerate	97.7		P	80 - 120
Ethalfluralin	83.5		P	80 - 120
Fenpropathrin	86.9		P	80 - 120
Gamma-BHC	92.7		P	80 - 120
Gamma-Chlordane	97.2		P	80 - 120
Heptachlor	81.9		P	80 - 120
Heptachlor Epoxide	109		P	80 - 120
Hexachlorobenzene	108		P	80 - 120
Kepone	57.1*		F	80 - 120
Lambda-Cyhalothrin	90.5		P	80 - 120
Methoprene	95.8		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	86.2		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	114		P	80 - 120
Permethrin	105		P	80 - 120
Phenothrin	94.3		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120
Prallethrin	118		P	80 - 120
Tau-Fluvalinate	98.8		P	80 - 120
Tetramethrin	113		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	119		P	80 - 120
Trifluralin	92.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A119170
Included Lab Sample IDs: 2406198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	88.3	85.1	P/P	50 - 150
2,4,5-T	92.5	97.8	P/P	50 - 150
3-Hydroxycarbofuran	96.9	96.1	P/P	60 - 150
Acetaminophen	104	103	P/P	60 - 160
Acetamiprid	109	107	P/P	50 - 150
Afidopyropen	117	90.5	P/P	50 - 150
Aldicarb	99.8	100	P/P	60 - 150
Aldicarb Sulfone	102	97.4	P/P	50 - 150
Aldicarb Sulfoxide	100	114	P/P	50 - 150
Bentazon	143	126	P/P	50 - 160
Benzovindiflupyr	103	106	P/P	50 - 150
Carbamazepine	113	116	P/P	60 - 150
Carbaryl	120	117	P/P	60 - 150
Carbofuran	101	105	P/P	50 - 150
Clothianidin	89.1	89.1	P/P	60 - 150
Dinotefuran	114	114	P/P	50 - 150
Diuron	105	102	P/P	60 - 160
Fenuron	95.2	95.1	P/P	60 - 150
Fluridone	116	108	P/P	60 - 160
Hydrocodone	97.7	97.0	P/P	60 - 150
Ibuprofen	93.2	97.3	P/P	50 - 160
Imazapyr	84.4	90.8	P/P	50 - 150
Imidacloprid	104	105	P/P	60 - 150
Linuron	108	115	P/P	60 - 150
Mandestrobin	106	105	P/P	50 - 150
MCPP	104	93.5	P/P	50 - 150
Methiocarb	106	112	P/P	50 - 150
Methomyl	108	96.6	P/P	50 - 150
Naproxen	67.4	84.4	P/P	50 - 160
Oxamyl	101	94.0	P/P	50 - 150
Primidone	93.3	91.3	P/P	60 - 150
Propoxur	118	105	P/P	50 - 150
Pyraclostrobin	106	108	P/P	60 - 150
Silvex	96.9	87.3	P/P	50 - 150
Thiamethoxam	91.0	88.9	P/P	50 - 150
Tolfenpyrad	95.8	95.5	P/P	60 - 150
Triclopyr	88.6	103	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A119206
Included Lab Sample IDs: 2406200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.5		P	80 - 120
Alachlor	85.5		P	80 - 120
Ametryn	96.1		P	80 - 120
Atrazine Desethyl	87.0		P	80 - 120
Azinphos Methyl	111		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	92.7		P	80 - 120
Butylate	98.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119206
Included Lab Sample IDs: 2406200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Caffeine	102		P	80 - 120
Carbophenothion	98.5		P	80 - 120
Carfentrazone Ethyl	95.2		P	80 - 120
Chlorfenapyr	84.5		P	80 - 120
Chlorpyrifos Ethyl	86.1		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	98.8		P	80 - 120
Cyanazine	103		P	80 - 120
Cyprodinil	99.7		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	90.4		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	97.4		P	80 - 120
Dimethomorph	94.2		P	80 - 120
Disulfoton	94.2		P	80 - 120
Dithiopyr	97.2		P	80 - 120
EPTC	97.1		P	80 - 120
Ethion	91.9		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	94.2		P	80 - 120
Fenamiphos	90.2		P	80 - 120
Fenbuconazole	88.6		P	80 - 120
Fipronil	86.7		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	98.9		P	80 - 120
Fipronil Sulfone	99.9		P	80 - 120
Fluazifop-P-butyl	99.8		P	80 - 120
Fludioxonil	103		P	80 - 120
Flumioxazin	103		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	98.5		P	80 - 120
Fonofos	94.7		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	96.5		P	80 - 120
Iprodione	89.3		P	80 - 120
Loratadine	87.7		P	80 - 120
Malathion	89.0		P	80 - 120
Metalaxyl	86.3		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	98.6		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	88.5		P	80 - 120
Myclobutanil	90.5		P	80 - 120
Naled	95.2		P	80 - 120
Napropamide	100		P	80 - 120
Norflurazon	95.7		P	80 - 120
Oxadiazon	97.0		P	80 - 120
Oxyfluorfen	103		P	80 - 120
Parathion Ethyl	98.0		P	80 - 120
Parathion Methyl	88.4		P	80 - 120
Pendimethalin	112		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119206
Included Lab Sample IDs: 2406200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phenytoin	98.4		P	80 - 120
Phorate	98.8		P	80 - 120
Prodiamine	105		P	80 - 120
Prometon	99.9		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	97.3		P	80 - 120
Propanil	99.9		P	80 - 120
Propargite	98.6		P	80 - 120
Propiconazole	87.3		P	80 - 120
Pyraflufen Ethyl	90.3		P	80 - 120
Pyridaben	95.3		P	80 - 120
Pyriproxyfen	98.3		P	80 - 120
Simazine	80.9		P	80 - 120
Stirophos	88.1		P	80 - 120
Sulfentrazone	97.1		P	80 - 120
Tebuconazole	97.6		P	80 - 120
Terbufos	96.2		P	80 - 120
Terbuthylazine	87.7		P	80 - 120
Thiobencarb	96.1		P	80 - 120
Triadimefon	99.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119332
Included Lab Sample IDs: 2406200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	89.7		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)	123	110	119			7.35
	Acetochlor	71.8	70.2	72.8			3.60
	Alachlor	100	82.7	81.1			1.98
	Aldrin	37.1	47.8	50.2			4.87
	Alpha-BHC	98.5	94.3	95.7			1.51
	Alpha-Chlordane	59.6	73.2	71.5			2.34
	Ametryn	135	136	137			0.661
	Atrazine	94.6	86.2	103			8.90
	Atrazine Desethyl	109	109	99.7			7.87
	Avobenzone	170	149	163			9.11
	Azinphos Methyl	193	162	163			0.0844
	Azoxystrobin	98.7	106	122			13.2
	Beta-BHC	83.5	141	102			32.1
	Beta-Cyfluthrin	55.6	113	85.6			27.3
	Bifenthrin	48.6	72.8	53.5			30.7
	Bromacil	94.8					0.648
	Butylate	57.6	57.3	59.0			2.81
	Caffeine	104	99.5	95.8			3.26
	Carbophenothion	110	92.7	98.7			6.29
	Carfentrazone Ethyl	103	92.7	94.9			2.31
	Chlorfenapyr	71.6	62.5	67.9			8.39
	Chlorothalonil	61.5	32.6	65.1			66.5
	Chlorpyrifos Ethyl	73.2	61.8	60.7			1.69
	Chlorpyrifos Methyl	82.0	81.9	89.1			8.35
	Cis-Nonachlor	69.3	51.3	52.7			2.74
	Coumaphos	99.4	80.9	84.9			4.82
	Cyanazine	210	234	235			0.632
	Cypermethrin	129	93.4	120			25.2
	Cyprodinil	101	97.6	107			9.56
	Dacthal	66.8	146	107			30.6
	DDD-p,p'	78.9	79.0	75.3			4.80
	DDE-p,p'	68.2	53.8	39.6			30.5
	DDT-p,p'	68.2	68.5	60.2			12.9
	Dechlorane 602	94.0	79.1	82.3			4.00
	Dechlorane 603	138	118	128			8.10
	Dechlorane Plus	95.2	82.0	81.2			0.976
	Delta-BHC	100	95.1	106			10.8
	Deltamethrin	64.1	58.7	43.7			29.4
	Demeton	81.6	83.4	86.4			3.54
	Diazinon	111	112	113			0.719
	Dichlobenil	116	96.7	80.3			18.5
	Dicofol	56.1	71.8	67.3			6.41
	Dieldrin	84.9	65.5	62.9			3.62
	Difenoconazole	86.3	68.4	75.9			10.4
	Dimethenamid	103	91.6	95.9			4.57
	Dimethomorph	152	166	171			2.72
	Disulfoton	98.2	96.7	93.9			2.96
	Dithiopyr	106	85.4	90.2			5.39
	Endosulfan I	80.4	66.9	65.2			2.64
	Endosulfan II	75.0	69.1	69.5			0.599
	Endosulfan Sulfate	61.5	125	87.8			34.9
	Endrin	82.5	93.1	71.3			26.6

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Endrin Aldehyde	48.2	68.9	78.2			12.6
	Endrin Ketone	87.8	80.1	70.5			12.8
	EPTC	46.5	44.9	46.4			3.37
	Esfenvalerate	61.6	50.8	49.1			3.41
	Ethalfluralin	70.0	66.9	71.9			7.17
	Ethion	81.4	92.1	102			10.7
	Ethoprop	82.2	89.9	96.6			7.12
	Etridiazole	60.6	56.8	57.2			0.606
	Fenamiphos	68.3	69.8	69.4			0.499
	Fenbuconazole	67.7	54.4	57.0			4.16
	Fenpropathrin	48.8	95.4	66.5			35.7
	Fipronil	76.6	65.7	68.9			4.82
	Fipronil Desulfinyl	87.3	78.4	77.4			1.15
	Fipronil Sulfide	91.0	71.8	69.9			2.73
	Fipronil Sulfone	82.4	72.8	76.4			4.79
	Fluazifop-P-butyl	104	103	105			2.08
	Fludioxonil	82.5	80.7	79.2			1.84
	Flumioxazin	137	116	127			9.05
	Flutolanil	102	93.8	102			8.36
	Fluxapyroxad	81.5	71.0	74.8			5.17
	Fonofos	109	110	110			0.467
	Gamma-BHC	114	111	95.7			14.4
	Gamma-Chlordane	52.0	69.8	70.8			1.51
	Heptachlor	78.8	69.6	61.1			12.9
	Heptachlor Epoxide	69.4	108	74.2			32.8
	Hexabromobenzene	128	120	121			0.424
	Hexachlorobenzene	77.1	85.6	70.6			19.2
	Hexazinone	87.3	94.9	92.6			1.67
	Imazalil	86.0	59.5	58.2			2.21
	Iprodione	31.2	34.0	42.2			21.6
	Kepone	126	111	54.4			68.4
	Lambda-Cyhalothrin	65.1	94.3	75.8			21.7
	Loratadine	168	148	146			1.03
	Malathion	80.7	75.2	77.7			3.26
	Metalaxyl	91.3	80.0	73.5			1.94
	Methoprene	45.3	62.0	56.4			9.48
	Methoxychlor	79.5	53.7	60.8			12.4
	Metolachlor	77.2	76.8	76.4			0.492
	Metribuzin	109	107	108			0.842
	Mevinphos	63.1	67.3	71.4			5.89
	MGK-264	92.2	53.3	49.7			6.94
	Mirex	60.6	48.4	39.2			21.0
	Molinate	58.1	59.9	61.6			2.79
	Myclobutanil	99.8	96.0	95.7			0.312
	Naled	35.0	41.0	50.6			21.0
	Napropamide	82.8	72.7	79.1			8.36
	Norflurazon	96.9					0.371
	Octinoxate	166	161	177			9.10
	Oxadiazon	88.9	83.4	82.8			0.712
	Oxybenzone	118	107	111			3.89
	Oxychlordane	71.2	61.7	75.4			20.0
	Oxyfluorfen	79.7	89.0	84.4			5.35
	Parathion Ethyl	90.3	93.6	90.8			3.04
	Parathion Methyl	89.5	90.8	101			10.4

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	PBB-153	145	126	140			10.1
	PBDE-47	116	103	110			6.55
	PBDE-99	114	95.1	101			6.06
	PCB-1016	79.5	64.4	79.8			21.4
	PCB-1260	114	73.4	87.4			17.4
	Pendimethalin	85.9	85.9	95.6			10.7
	Pentabromotoluene	126	116	124			7.15
	Permethrin	67.9	53.1	75.4			34.6
	Phenothrin	50.3	74.8	77.7			3.80
	Phenytoin	136	156	162			3.48
	Phorate	99.9	107	121			11.7
	Piperonyl Butoxide	87.3	61.6	86.1			33.1
	Prallethrin	57.1	73.3	73.2			0.176
	Prodiamine	55.9	61.2	61.7			0.880
	Prometon	105	94.9	96.1			1.35
	Prometryn	124	112	110			1.38
	Pronamide	110	101	107			5.59
	Propanil	106	114	112			2.46
	Propargite	66.0	59.8	60.3			0.974
	Propiconazole	75.9	70.7	73.3			3.50
	Pyraflufen Ethyl	98.0	83.6	77.2			7.95
	Pyridaben	77.6	47.7	55.5			8.96
	Pyriproxyfen	221	128	171			29.1
	Simazine	82.6	56.6	66.9			5.80
	Stirophos	58.9	40.1	42.0			4.53
	Sulfentrazone	62.2	73.4	59.3			21.3
	Tau-Fluvalinate	53.8	50.0	39.3			23.8
	Tebuconazole	68.2	63.7	63.2			0.696
	Terbufos	119	115	120			4.50
	Terbuthylazine	85.3	81.3	85.4			4.89
	Tetradecachloro-m-terphenyl	233	227	251			10.0
	Tetramethrin	74.2	117	87.8			28.8
	Thiobencarb	105	92.0	95.8			4.02
	Trans-Nonachlor	46.1	72.4	64.7			11.3
	Tri-o-cresyl Phosphate	118	102	109			7.00
	Triadimefon	94.9	86.2	90.0			4.30
	Triclosan Methyl	73.5	65.4	84.4			25.3
	Trifluralin	69.4	61.5	66.2			7.37
	Tris(1-chloro-2-propyl) phosphate (TCPP)	98.5	100	102			1.59
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113	103	109			6.05
	Tris(2-chloroethyl) phosphate (TCEP)	119	106	108			2.22
EPA 8276	Chlordane	78.7	76.6	83.0			7.50
	Toxaphene	90.8	93.8	96.0			2.38
EPA 8321B	2,4-D	87.9	87.0	93.4			6.87
	2,4,5-T	94.3	87.1	89.0			2.12
	3-Hydroxycarbofuran	82.2	82.1	82.2			0.0561
	Acesulfame K	144	133	135			1.22
	Acetaminophen	95.9	90.9	93.3			2.57
	Acetamiprid	81.4	91.0	92.7			1.85
	Afidopyropen	64.9	86.1	100			15.2
	Aldicarb	53.3	57.6	74.7			25.8

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Aldicarb Sulfone	86.8	74.7	73.8			1.23
	Aldicarb Sulfoxide	110	53.5	53.4			0.257
	AMPA	97.2	91.2	90.8			0.419
	Bentazon	149	162	156			2.87
	Benzovindiflupyr	89.5	77.8	79.6			2.18
	Carbamazepine	92.5	87.4	93.2			6.11
	Carbaryl	89.6	80.5	84.7			5.17
	Carbofuran	85.0	73.8	73.8			0.0298
	Clothianidin	88.4	84.4	89.7			6.06
	Dinotefuran	107	96.1	96.2			0.105
	Diuron	89.3	67.8	77.3			11.5
	Endothall	77.8	77.2	76.0			1.55
	Fenuron	93.2	72.2	75.2			4.10
	Fluridone	86.4	84.2	83.9			0.407
	Glufosinate	79.1	67.6	69.6			3.03
	Glyphosate	96.7	82.8	91.7			10.1
	Hydrocodone	93.3	75.3	78.8			4.60
	Ibuprofen	99.5	68.9	83.6			19.2
	Imazapyr	87.5	107	108			0.875
	Imidacloprid	97.2	101	105			3.35
	Linuron	89.7	78.5	82.6			5.09
	Mandestrobin	87.5	82.1	81.5			0.769
	MCPP	92.8	90.4	99.1			9.22
	Methiocarb	88.7	75.8	78.2			3.16
	Methomyl	87.2	76.7	76.4			0.487
	Naproxen	101	98.8	85.3			14.6
	Oxamyl	92.1	79.9	78.7			1.49
	Primidone	89.2	77.6	82.1			5.58
	Propoxur	78.7	72.8	73.2			0.561
	Pyraclostrobin	86.6	78.0	81.8			4.78
	Silvex	96.2	101	100			0.907
	Sucralose	118	109	136			19.1
	Thiamethoxam	83.8	84.1	85.1			1.21
	Tolfenpyrad	54.8	47.2	49.0			3.59
	Triclopyr	85.6	87.0	96.1			9.91

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2406200
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2406199
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2406200
EPA 8270E	PCBs in water matrices by GC/MS/MS	2406199
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2406199
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2406197
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2406198

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	05/05/2023	05/08/2023 08:00	Rasheda Ghaffari	05/10/2023 20:42	Arthur Maknenko	2406200
	05/05/2023	05/08/2023 08:00	Rasheda Ghaffari	05/12/2023 20:03	Vandana T. Nagar	2406200
	05/05/2023	05/08/2023 08:00	Rasheda Ghaffari	05/17/2023 14:45	Vandana T. Nagar	2406200
	05/05/2023	05/08/2023 09:00	Fe-Val Siddell	05/11/2023 04:05	Julie Wi	2406199
	05/05/2023	05/08/2023 09:00	Fe-Val Siddell	05/13/2023 02:33	Michael Poppell	2406199
EPA 8276	05/05/2023	05/08/2023 09:00	Fe-Val Siddell	05/11/2023 13:54	Arthur Maknenko	2406199
EPA 8321B	05/05/2023	05/05/2023 13:00	Manjita Shrestha	05/05/2023 23:13	Manjita Shrestha	2406198
	05/05/2023	05/05/2023 13:00	Manjita Shrestha	05/06/2023 23:20	Manjita Shrestha	2406198
	05/05/2023	05/10/2023 09:00	Hoor Shaik	05/11/2023 20:04	Juyoung Kim	2406197
	05/05/2023	05/10/2023 09:00	Hoor Shaik	05/12/2023 00:08	Juyoung Kim	2406198