Chemical Analysis Report

NE-DIST-2023-08-10-01

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

Event Description: **Thomas Creek Deploy**
Request ID: **RQ-2023-07-31-21**
Customer: **NE-DIST**
Project ID: **SMP**

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

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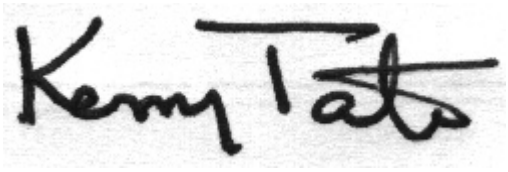
Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 28-AUG-2023 11:45



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: THOMAS CR 60 MI BELOW CITY PRISON **Collection Date/Time: 08/09/2023 10:30**

Field ID: G4NE0008 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430330	EPA 8321B	Aldicarb	0.020	U	ug/L	P433683	
		Aldicarb Sulfone	0.0020	U	ug/L	P433683	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P433683	MS
		Carbaryl	0.0020	U	ug/L	P433683	
		Carbofuran	0.0020	U	ug/L	P433683	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P433683	
		Methiocarb	0.0020	U	ug/L	P433683	
		Methomyl	0.0020	U	ug/L	P433683	
		Oxamyl	0.0020	U	ug/L	P433683	
		Propoxur	0.0020	U	ug/L	P433683	
2430331		2,4-D	0.0020	U	ug/L	P433687	
		Acesulfame K	0.10	U	ug/L	P433724	
		2,4,5-T	0.0040	U	ug/L	P433687	
		AMPA	0.10	U	ug/L	P433724	
		Acetaminophen	0.0080	U	ug/L	P433687	
		Endothall	0.25	U	ug/L	P433724	
		Acetamiprid	0.0020	U	ug/L	P433687	MS
		Glufosinate	0.10	U	ug/L	P433724	
		Glyphosate	0.10	U	ug/L	P433724	
		Afidopyropen	0.0020	U	ug/L	P433687	
		Bentazon	0.0013	I	ug/L	P433687	
		Sucralose	0.044		ug/L	P433724	
		Benzovindiflupyr	0.0020	U	ug/L	P433687	
		Carbamazepine	8.0E-04	U	ug/L	P433687	MS
		Clothianidin	0.0020	U	ug/L	P433687	
		Dinotefuran	0.0020	U	ug/L	P433687	
		Diuron	0.0020	U	ug/L	P433687	MS
		Fenuron	0.032	U	ug/L	P433687	MS
		Fluridone	8.0E-04	U	ug/L	P433687	
		Imazapyr	0.025		ug/L	P433687	
		Hydrocodone	0.0020	U	ug/L	P433687	
		Ibuprofen	0.080	U	ug/L	P433687	
		Imidacloprid	0.0020	U	ug/L	P433687	
		Linuron	0.0040	U	ug/L	P433687	
		Mandestrobin	0.0020	U	ug/L	P433687	
		MCPP	0.0020	U	ug/L	P433687	
		Naproxen	0.0080	U	ug/L	P433687	
		Primidone	0.0040	U	ug/L	P433687	
		Pyraclostrobin	0.0020	U	ug/L	P433687	
		Silvex	0.0040	U	ug/L	P433687	
		Thiamethoxam	0.0020	U	ug/L	P433687	
		Tolfenpyrad	0.0020	U	ug/L	P433687	
		Triclopyr	0.0040	U	ug/L	P433687	
2430332	EPA 8270E	Aldrin	0.67	U	ng/L	P433679	

Field ID: G4NE0008 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430332	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P433679	
		Alpha-Chlordane	0.20	U	ng/L	P433679	
		PCB-1016	2.0	U	ng/L	P433679	
		Beta-BHC	0.10	U	ng/L	P433679	
		PCB-1221	2.0	U	ng/L	P433679	
		Beta-Cyfluthrin	1.3	U	ng/L	P433679	
		PCB-1232	2.0	U	ng/L	P433679	
		Bifenthrin	0.51	U	ng/L	P433679	
		PCB-1242	2.0	U	ng/L	P433679	
		PCB-1248	2.0	U	ng/L	P433679	
		Chlorothalonil	3.7	U	ng/L	P433679	
		PCB-1254	2.0	U	ng/L	P433679	
		Cis-Nonachlor	0.20	U	ng/L	P433679	
		PCB-1260	2.0	U	ng/L	P433679	
		Cypermethrin	1.5	U	ng/L	P433679	
		Dacthal	0.15	U	ng/L	P433679	
		DDD-p,p'	0.26	U	ng/L	P433679	
		DDE-p,p'	0.20	U	ng/L	P433679	
		DDT-p,p'	0.82	U	ng/L	P433679	
		Delta-BHC	0.41	U	ng/L	P433679	
		Deltamethrin	1.3	U	ng/L	P433679	
		Dichlobenil	0.26	U	ng/L	P433679	
		Dicofol	1.3	U	ng/L	P433679	
		Dieldrin	0.41	U	ng/L	P433679	
		Endosulfan I	0.41	U	ng/L	P433679	
		Endosulfan II	0.92	U	ng/L	P433679	
		Endosulfan Sulfate	0.31	U	ng/L	P433679	
		Endrin	0.92	U	ng/L	P433679	
		Endrin Aldehyde	0.77	U	ng/L	P433679	
		Endrin Ketone	0.41	U	ng/L	P433679	
		Esfenvalerate	0.77	U	ng/L	P433679	
		Ethalfluralin	0.15	U	ng/L	P433679	
		Fenpropathrin	0.26	U	ng/L	P433679	
		Gamma-BHC	0.13	U	ng/L	P433679	
		Gamma-Chlordane	0.20	U	ng/L	P433679	
		Heptachlor	0.20	U	ng/L	P433679	
		Heptachlor Epoxide	0.26	U	ng/L	P433679	
		Hexachlorobenzene**	1.0	U	ng/L	P433679	
		Kepone	14	U	ng/L	P433679	
		Lambda-Cyhalothrin	0.77	U	ng/L	P433679	
		Methoprene	0.77	U	ng/L	P433679	
		Methoxychlor	0.31	U	ng/L	P433679	
		MGK-264	0.20	U	ng/L	P433679	
		Mirex	0.36	U	ng/L	P433679	
		Oxychlordane	0.31	U	ng/L	P433679	

Field ID: G4NE0008 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430332	EPA 8270E	Permethrin	1.6	U	ng/L	P433679	
		Phenothrin	0.92	U	ng/L	P433679	
		Piperonyl Butoxide	0.15	U	ng/L	P433679	
		Prallethrin	2.0	U	ng/L	P433679	
		Tau-Fluvalinate	0.26	U	ng/L	P433679	
		Tetramethrin	0.77	U	ng/L	P433679	
		Trans-Nonachlor	0.20	U	ng/L	P433679	
		Triclosan Methyl	0.15	U	ng/L	P433679	
		Trifluralin	0.20	U	ng/L	P433679	
	EPA 8276	Chlordane	2.0	U	ng/L	P433679	
		Toxaphene	15	U	ng/L	P433679	
2430333	EPA 8270E	Oxybenzone**	10	U	ng/L	P433648	
		Acetochlor	0.21	U	ng/L	P433648	
		Octinoxate**	150	U	ng/L	P433648	
		Alachlor	0.41	U	ng/L	P433648	
		Avobenzone**	100	U	ng/L	P433648	
		Ametryn	1.1	U	ng/L	P433648	
		Atrazine	2.7		ng/L	P433648	
		PBDE-47**	4.1	U	ng/L	P433648	
		Atrazine Desethyl	1.3	U	ng/L	P433648	
		PBDE-99**	5.1	U	ng/L	P433648	
		Azinphos Methyl	3.1	U	ng/L	P433648	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P433648	
		Azoxystrobin	0.41	U	ng/L	P433648	
		Bromacil	0.62	U	ng/L	P433648	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P433648	
		Butylate	0.21	U	ng/L	P433648	
		Dechlorane Plus**	31	U	ng/L	P433648	
		Caffeine**	11	I	ng/L	P433648	
		Dechlorane 602**	5.1	U	ng/L	P433648	
		Carbophenothion	0.51	U	ng/L	P433648	
		Dechlorane 603**	4.1	U	ng/L	P433648	
		Carfentrazone Ethyl	0.15	U	ng/L	P433648	
		Hexabromobenzene**	6.2	U	ng/L	P433648	
		Chlorfenapyr	0.31	U	ng/L	P433648	
		PBB-153**	8.2	U	ng/L	P433648	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P433648	
		Pentabromotoluene**	3.1	U	ng/L	P433648	
		Chlorpyrifos Methyl	0.10	U	ng/L	P433648	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P433648	
		Coumaphos	1.1	U	ng/L	P433648	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	25	I	ng/L	P433648	
		Cyanazine	5.1	U	ng/L	P433648	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P433648	

Field ID: G4NE0008 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430333	EPA 8270E	Cyprodinil	0.21	U	ng/L	P433648	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P433648	
		Demeton	3.6	U	ng/L	P433648	
		Diazinon	0.13	U	ng/L	P433648	
		Difenoconazole	0.62	U	ng/L	P433648	
		Dimethenamid	0.10	U	ng/L	P433648	
		Dimethomorph	0.31	UJ	ng/L	P433648	LCS, MS
		Disulfoton	0.62	U	ng/L	P433648	
		Dithiopyr	1.0	U	ng/L	P433648	
		EPTC	0.51	U	ng/L	P433648	
		Ethion	0.31	U	ng/L	P433648	
		Ethoprop	0.13	U	ng/L	P433648	
		Etridiazole	0.10	U	ng/L	P433648	
		Fenamiphos	0.46	U	ng/L	P433648	
		Fenbuconazole	0.51	U	ng/L	P433648	
		Fipronil	0.21	U	ng/L	P433648	
		Fipronil Desulfinyl**	0.10	U	ng/L	P433648	
		Fipronil Sulfide	0.10	U	ng/L	P433648	
		Fipronil Sulfone	0.14	I	ng/L	P433648	
		Fluazifop-P-butyl	0.10	U	ng/L	P433648	
		Fludioxonil	0.10	U	ng/L	P433648	
		Flumioxazin	3.1	U	ng/L	P433648	
		Flutolanil	0.10	U	ng/L	P433648	
		Fluxapyroxad	0.26	U	ng/L	P433648	
		Fonofos	0.15	U	ng/L	P433648	
		Hexazinone	0.51	U	ng/L	P433648	
		Imazalil	0.67	U	ng/L	P433648	
		Iprodione	0.51	U	ng/L	P433648	
		Loratadine**	0.31	U	ng/L	P433648	
		Malathion	0.36	U	ng/L	P433648	
		Metalaxyl	0.51	U	ng/L	P433648	
		Metolachlor	0.77	U	ng/L	P433648	
		Metribuzin	0.41	U	ng/L	P433648	
		Mevinphos	1.0	U	ng/L	P433648	
		Molinate	0.26	U	ng/L	P433648	
		Myclobutanil	0.36	U	ng/L	P433648	
		Naled	2.6	U	ng/L	P433648	
		Napropamide	0.72	U	ng/L	P433648	
		Norflurazon	1.0	U	ng/L	P433648	
		Oxadiazon	0.36	U	ng/L	P433648	
		Oxyfluorfen	0.21	U	ng/L	P433648	
		Parathion Ethyl	0.15	U	ng/L	P433648	
		Parathion Methyl	0.21	U	ng/L	P433648	
		Pendimethalin	0.77	U	ng/L	P433648	
		Phenytoin**	5.5	U	ng/L	P433648	

Field ID: G4NE0008 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430333	EPA 8270E	Phorate	0.26	U	ng/L	P433648	
		Prodiamine	0.21	U	ng/L	P433648	
		Prometon	3.1	U	ng/L	P433648	
		Prometryn	0.36	U	ng/L	P433648	
		Pronamide	0.10	U	ng/L	P433648	
		Propanil	0.10	U	ng/L	P433648	
		Propargite	0.82	U	ng/L	P433648	
		Propiconazole	0.62	U	ng/L	P433648	
		Pyraflufen Ethyl	0.31	U	ng/L	P433648	
		Pyridaben	1.4	U	ng/L	P433648	
		Pyriproxyfen	0.26	U	ng/L	P433648	
		Simazine	0.26	U	ng/L	P433648	
		Stirophos	0.41	U	ng/L	P433648	
		Sulfentrazone	1.4	U	ng/L	P433648	
		Tebuconazole	1.4	U	ng/L	P433648	
		Terbufos	0.21	U	ng/L	P433648	
		Terbuthylazine	0.21	U	ng/L	P433648	
		Thiobencarb	0.51	U	ng/L	P433648	
		Triadimefon	0.15	U	ng/L	P433648	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P433648

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: P433648

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: P433648

Component	Result	Code	Units
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
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: P433648

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: P433679

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: P433679

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'	0.80	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
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: P433679

Component	Result	Code	Units
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P433679

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: P433683

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

Reference Method: EPA 8321B
Batch ID: P433687

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P433724

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P433648

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	103		P	42 - 162
Acetochlor	87.2		P	69 - 123
Alachlor	101		P	65 - 118
Ametryn	123		P	58 - 141
Atrazine	91.2		P	73 - 118
Atrazine Desethyl	77.4		P	32 - 125
Avobenzone	131		P	40 - 203
Azinphos Methyl	140		P	36 - 197
Azoxystrobin	104		P	58 - 226
Bromacil	104		P	48 - 120
Butylate	62.0		P	27 - 85.0
Caffeine	96.1		P	40 - 137
Carbophenothion	102		P	54 - 132
Carfentrazone Ethyl	129		P	60 - 142
Chlorfenapyr	96.8		P	53 - 117
Chlorpyrifos Ethyl	84.6		P	59 - 116
Chlorpyrifos Methyl	102		P	66 - 119
Coumaphos	158		P	11 - 234
Cyanazine	129		P	61 - 248
Cyprodinil	103		P	50 - 147
Dechlorane 602	94.6		P	50 - 150
Dechlorane 603	113		P	50 - 150
Dechlorane Plus	121		P	47 - 182
Demeton	74.8		P	30 - 138
Diazinon	99.2		P	67 - 126
Difenoconazole	179		P	38 - 205
Dimethenamid	93.0		P	57 - 111
Dimethomorph	214		F	16 - 212
Disulfoton	96.5		P	46 - 126
Dithiopyr	93.6		P	62 - 115
EPTC	64.5		P	28 - 80.0
Ethion	79.4		P	24 - 122
Ethoprop	97.9		P	62 - 113
Etridiazole	66.5		P	28 - 92.0
Fenamiphos	92.8		P	57 - 128
Fenbuconazole	108		P	52 - 155
Fipronil	96.5		P	63 - 130
Fipronil Desulfinyl	99.8		P	61 - 130
Fipronil Sulfide	101		P	56 - 117
Fipronil Sulfone	103		P	52 - 118
Fluazifop-P-butyl	103		P	61 - 128
Fludioxonil	95.9		P	59 - 129
Flumioxazin	179		P	30 - 250
Flutolanil	89.2		P	53 - 127
Fluxapyroxad	101		P	42 - 132
Fonofos	103		P	61 - 110
Hexabromobenzene	110		P	50 - 150
Hexazinone	91.9		P	46 - 139
Imazalil	86.0		P	40 - 139
Iprodione	82.4		P	40 - 146
Loratadine	174		P	10 - 224
Malathion	102		P	61 - 135

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P433648

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	86.9		P	58 - 121
Metolachlor	103		P	64 - 118
Metribuzin	94.9		P	45 - 245
Mevinphos	101		P	49 - 118
Molinate	54.7		P	42 - 92.0
Myclobutanil	98.4		P	55 - 127
Naled	51.7		P	10 - 114
Napropamide	89.8		P	39 - 121
Norflurazon	99.9		P	55 - 129
Octinoxate	121		P	26 - 166
Oxadiazon	84.4		P	54 - 115
Oxybenzone	115		P	49 - 135
Oxyfluorfen	109		P	64 - 139
Parathion Ethyl	93.4		P	70 - 111
Parathion Methyl	104		P	76 - 136
PBB-153	112		P	50 - 150
PBDE-47	102		P	41 - 148
PBDE-99	101		P	38 - 147
Pendimethalin	103		P	52 - 118
Pentabromotoluene	103		P	50 - 150
Phenytoin	50.4		P	10 - 162
Phorate	110		P	40 - 122
Prodiamine	39.7		P	26 - 141
Prometon	97.9		P	54 - 122
Prometryn	113		P	61 - 128
Pronamide	111		P	72 - 121
Propanil	101		P	45 - 144
Propargite	86.5		P	10 - 199
Propiconazole	91.5		P	56 - 127
Pyraflufen Ethyl	109		P	56 - 140
Pyridaben	137		P	26 - 211
Pyriproxyfen	97.2		P	33 - 194
Simazine	92.1		P	67 - 121
Stirophos	69.0		P	20 - 142
Sulfentrazone	68.9		P	21 - 144
Tebuconazole	70.0		P	10 - 122
Terbufos	107		P	60 - 129
Terbuthylazine	87.8		P	69 - 113
Tetradecachloro-m-terphenyl	123		P	70 - 200
Thiobencarb	96.2		P	51 - 120
Tri-o-cresyl Phosphate	117		P	49 - 150
Triadimefon	94.1		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	117		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	118		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	117		P	70 - 180

Reference Method: EPA 8270E
Batch ID: P433679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	65.6		P	30 - 96.0
Alpha-BHC	102		P	70 - 109

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P433679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	63.8		P	45 - 107
Beta-BHC	83.8		P	64 - 138
Beta-Cyfluthrin	95.7		P	17 - 141
Bifenthrin	68.7		P	10 - 113
Chlorothalonil	61.4		P	26 - 180
Cis-Nonachlor	57.7		P	37 - 102
Cypermethrin	111		P	20 - 133
Dacthal	87.7		P	69 - 114
DDD-p,p'	64.2		P	42 - 105
DDE-p,p'	68.6		P	42 - 106
DDT-p,p'	61.9		P	42 - 107
Delta-BHC	85.6		P	67 - 144
Deltamethrin	106		P	15 - 149
Dichlobenil	60.7		P	46 - 117
Dicofol	68.6		P	34 - 114
Dieldrin	65.4		P	50 - 108
Endosulfan I	76.8		P	55 - 104
Endosulfan II	69.4		P	51 - 111
Endosulfan Sulfate	70.2		P	56 - 121
Endrin	71.8		P	10 - 106
Endrin Aldehyde	62.0		P	34 - 114
Endrin Ketone	85.0		P	63 - 177
Esfenvalerate	107		P	29 - 143
Ethalfluralin	88.4		P	46 - 96.0
Fenpropathrin	75.8		P	28 - 115
Gamma-BHC	73.3		P	65 - 121
Gamma-Chlordane	71.1		P	39 - 103
Heptachlor	61.8		P	39 - 94.0
Heptachlor Epoxide	79.4		P	54 - 104
Hexachlorobenzene	55.1		P	36 - 100
Kepone	81.6		P	10 - 225
Lambda-Cyhalothrin	82.1		P	10 - 135
Methoprene	75.9		P	10 - 109
Methoxychlor	111		P	52 - 112
MGK-264	76.6		P	44 - 117
Mirex	67.0		P	20 - 90.0
Oxychlordane	82.9		P	44 - 102
PCB-1016	64.4		P	45 - 107
PCB-1260	81.5		P	40 - 118
Permethrin	83.4		P	18 - 135
Phenothrin	73.7		P	10 - 102
Piperonyl Butoxide	149		P	28 - 156
Prallethrin	80.8		P	28 - 113
Tau-Fluvalinate	111		P	10 - 123
Tetramethrin	106		P	18 - 158
Trans-Nonachlor	89.9		P	39 - 104
Triclosan Methyl	98.1		P	54 - 108
Trifluralin	86.5		P	46 - 97.0

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P433679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.8		P	52 - 117
Toxaphene	96.0		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P433683

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	90.4		P	40 - 150
Aldicarb	65.2		P	30 - 150
Aldicarb Sulfone	81.0		P	40 - 150
Aldicarb Sulfoxide	86.8		P	40 - 150
Carbaryl	87.9		P	40 - 150
Carbofuran	65.1		P	40 - 150
Methiocarb	65.1		P	40 - 150
Methomyl	77.3		P	40 - 150
Oxamyl	80.2		P	40 - 150
Propoxur	68.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P433687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.5		P	40 - 150
2,4,5-T	70.0		P	40 - 150
Acetaminophen	73.7		P	30 - 150
Acetamiprid	76.5		P	40 - 150
Afidopyropen	46.7		P	30 - 150
Bentazon	146		P	30 - 150
Benzovindiflupyr	63.5		P	40 - 150
Carbamazepine	53.7		P	40 - 150
Clothianidin	96.0		P	40 - 150
Dinotefuran	140		P	40 - 150
Diuron	54.7		P	40 - 150
Fenuron	103		P	40 - 150
Fluridone	107		P	40 - 150
Hydrocodone	92.2		P	40 - 150
Ibuprofen	60.5		P	40 - 150
Imazapyr	96.2		P	40 - 150
Imidacloprid	78.3		P	40 - 150
Linuron	92.0		P	40 - 150
Mandestrobin	83.7		P	40 - 150
MCPP	84.7		P	40 - 150
Naproxen	54.8		P	40 - 150
Primidone	97.6		P	40 - 150
Pyraclostrobin	64.4		P	40 - 150
Silvex	81.1		P	40 - 150
Thiamethoxam	90.8		P	40 - 150
Tolfenpyrad	50.5		P	30 - 150
Triclopyr	70.2		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P433724

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	110		P	40 - 150
AMPA	81.8		P	40 - 150
Endothall	97.7		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	120		P	40 - 150
Sucralose	92.4		P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P433648

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2429511	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.4	91.1	P/P	26 - 165
2429511	Acetochlor	98.5	91.7	P/P	67 - 124
2429511	Alachlor	101	88.9	P/P	60 - 120
2429511	Ametryn	144	139	P/P	54 - 216
2429511	Atrazine Desethyl	72.2	65.5	P/P	15 - 122
2429511	Avobenzone	132	126	P/P	37 - 178
2429511	Azinphos Methyl	141	124	P/P	40 - 292
2429511	Azoxystrobin	138	125	P/P	35 - 220
2429511	Bromacil	98.8	98.7	P/P	45 - 127
2429511	Butylate	59.1	55.0	P/P	20 - 83.0
2429511	Caffeine	99.9	102	P/P	10 - 194
2429511	Carbophenothion	100	101	P/P	57 - 127
2429511	Carfentrazone Ethyl	116	114	P/P	51 - 141
2429511	Chlorfenapyr	84.3	79.9	P/P	46 - 111
2429511	Chlorpyrifos Ethyl	89.6	83.7	P/P	52 - 120
2429511	Chlorpyrifos Methyl	97.6	87.8	P/P	63 - 119
2429511	Coumaphos	149	135	P/P	10 - 228
2429511	Cyanazine	134	131	P/P	59 - 241
2429511	Cyprodinil	89.4	84.4	P/P	47 - 146
2429511	Dechlorane 602	77.7	65.3	P/P	50 - 150
2429511	Dechlorane 603	117	115	P/P	50 - 150
2429511	Dechlorane Plus	98.0	101	P/P	50 - 150
2429511	Demeton	85.3	81.6	P/P	40 - 136
2429511	Diazinon	114	110	P/P	69 - 132
2429511	Difenoconazole	160	129	P/P	57 - 258
2429511	Dimethenamid	88.5	83.8	P/P	54 - 110
2429511	Dimethomorph	252	233	F/F	28 - 210
2429511	Disulfoton	107	105	P/P	43 - 133
2429511	Dithiopyr	97.5	97.5	P/P	39 - 116
2429511	EPTC	58.3	53.9	P/P	20 - 78.0
2429511	Ethion	67.8	61.4	P/P	17 - 119
2429511	Ethoprop	107	101	P/P	66 - 120
2429511	Etridiazole	65.9	64.0	P/P	28 - 96.0
2429511	Fenamiphos	99.3	97.4	P/P	41 - 126
2429511	Fenbuconazole	97.3	88.9	P/P	42 - 169
2429511	Fipronil	98.9	95.0	P/P	61 - 132
2429511	Fipronil Desulfinyl	97.0	89.3	P/P	56 - 132
2429511	Fipronil Sulfide	95.6	102	P/P	48 - 119
2429511	Fipronil Sulfone	99.2	93.0	P/P	42 - 131
2429511	Fluazifop-P-butyl	99.4	92.2	P/P	53 - 131
2429511	Fludioxonil	87.1	74.4	P/P	56 - 127
2429511	Flumioxazin	171	136	P/P	19 - 300
2429511	Flutolanil	71.3	77.4	P/P	41 - 127
2429511	Fluxapyroxad	93.9	85.4	P/P	42 - 172
2429511	Fonofos	97.6	95.5	P/P	59 - 113
2429511	Hexabromobenzene	114	113	P/P	50 - 150
2429511	Hexazinone	103	92.9	P/P	66 - 122
2429511	Imazalil	96.6	95.5	P/P	21 - 283
2429511	Iprodione	83.6	73.6	P/P	43 - 150
2429511	Loratadine	185	162	P/P	23 - 201
2429511	Malathion	90.3	87.9	P/P	58 - 136
2429511	Metalaxyl	105	104	P/P	55 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P433648

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2429511	Metolachlor	117	90.9	P/P	57 - 121
2429511	Metribuzin	105	94.3	P/P	58 - 294
2429511	Mevinphos	108	106	P/P	50 - 126
2429511	Molinate	60.0	52.7	P/P	42 - 93.0
2429511	Myclobutanil	98.2	93.9	P/P	55 - 125
2429511	Naled	52.8	54.7	P/P	18 - 200
2429511	Napropamide	80.8	78.6	P/P	39 - 110
2429511	Norflurazon	93.2	84.9	P/P	48 - 128
2429511	Octinoxate	129	122	P/P	21 - 159
2429511	Oxadiazon	94.7	89.3	P/P	43 - 112
2429511	Oxybenzone	133	122	P/P	41 - 142
2429511	Oxyfluorfen	126	120	P/P	64 - 153
2429511	Parathion Ethyl	102	96.9	P/P	69 - 114
2429511	Parathion Methyl	106	100	P/P	79 - 139
2429511	PBB-153	113	113	P/P	50 - 150
2429511	PBDE-47	98.4	93.5	P/P	27 - 144
2429511	PBDE-99	87.3	81.4	P/P	18 - 150
2429511	Pendimethalin	104	100	P/P	50 - 139
2429511	Pentabromotoluene	110	104	P/P	50 - 150
2429511	Phenytoin	62.8	56.8	P/P	10 - 146
2429511	Phorate	111	110	P/P	54 - 161
2429511	Prodiamine	37.0	39.4	P/P	30 - 161
2429511	Prometon	117	113	P/P	45 - 134
2429511	Prometryn	130	114	P/P	45 - 137
2429511	Pronamide	125	117	P/P	65 - 133
2429511	Propanil	105	101	P/P	49 - 142
2429511	Propargite	69.7	68.4	P/P	10 - 203
2429511	Propiconazole	96.9	86.7	P/P	38 - 146
2429511	Pyraflufen Ethyl	104	92.4	P/P	34 - 153
2429511	Pyridaben	135	101	P/P	12 - 192
2429511	Pyriproxyfen	96.5	88.9	P/P	33 - 180
2429511	Simazine	89.8	86.3	P/P	51 - 157
2429511	Stirophos	54.0	48.7	P/P	10 - 128
2429511	Sulfentrazone	91.6	89.1	P/P	53 - 186
2429511	Tebuconazole	64.3	56.1	P/P	10 - 133
2429511	Terbufos	123	124	P/P	65 - 139
2429511	Terbuthylazine	89.3	85.3	P/P	66 - 117
2429511	Tetradecachloro-m-terphenyl	106	126	P/P	70 - 200
2429511	Thiobencarb	94.4	88.3	P/P	51 - 119
2429511	Tri-o-cresyl Phosphate	123	116	P/P	31 - 144
2429511	Triadimefon	94.6	93.5	P/P	48 - 119
2429511	Tris(1-chloro-2-propyl) phosphate (TCPP)	126	111	P/P	50 - 150
2429511	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	119	111	P/P	50 - 150
2429511	Tris(2-chloroethyl) phosphate (TCEP)	118	111	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P433679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2429555	Aldrin	32.3	37.6	P/P	24 - 81.0
2429555	Alpha-BHC	81.1	89.6	P/P	65 - 110
2429555	Alpha-Chlordane	45.1	44.7	P/P	43 - 119

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P433679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2429555	Beta-BHC	78.2	85.6	P/P	54 - 165
2429555	Beta-Cyfluthrin	60.9	61.7	P/P	27 - 165
2429555	Bifenthrin	49.0	50.4	P/P	17 - 117
2429555	Chlorothalonil	72.1	83.2	P/P	10 - 255
2429555	Cis-Nonachlor	41.5	41.6	P/P	34 - 98.0
2429555	Cypermethrin	72.9	72.9	P/P	25 - 143
2429555	Dacthal	61.9	71.2	P/P	55 - 139
2429555	DDD-p,p'	51.3	50.0	P/P	30 - 109
2429555	DDE-p,p'	51.2	53.5	P/P	35 - 106
2429555	DDT-p,p'	44.9	45.3	P/P	41 - 101
2429555	Delta-BHC	91.5	99.5	P/P	58 - 165
2429555	Deltamethrin	77.8	69.3	P/P	10 - 194
2429555	Dichlobenil	49.9	54.0	P/P	22 - 114
2429555	Dicofol	45.4	44.9	P/P	17 - 133
2429555	Dieldrin	45.3	49.2	P/P	45 - 129
2429555	Endosulfan I	52.7	52.3	P/P	49 - 104
2429555	Endosulfan II	59.5	61.0	P/P	37 - 117
2429555	Endosulfan Sulfate	54.6	52.4	P/P	38 - 128
2429555	Endrin	49.5	53.2	P/P	35 - 116
2429555	Endrin Aldehyde	58.3	44.1	P/P	19 - 108
2429555	Endrin Ketone	85.3	73.9	P/P	44 - 134
2429555	Esfenvalerate	73.5	85.9	P/P	27 - 176
2429555	Ethalfluralin	54.7	59.6	P/P	49 - 100
2429555	Fenpropathrin	45.7	48.0	P/P	34 - 117
2429555	Gamma-BHC	70.1	79.0	P/P	59 - 129
2429555	Gamma-Chlordane	46.6	48.0	P/P	33 - 107
2429555	Heptachlor	38.4	41.9	P/P	37 - 94.0
2429555	Heptachlor Epoxide	52.5	53.4	P/P	38 - 118
2429555	Hexachlorobenzene	37.7	40.7	P/P	35 - 97.0
2429555	Kepone	68.4	66.6	P/P	10 - 221
2429555	Lambda-Cyhalothrin	56.2	62.3	P/P	23 - 190
2429555	Methoprene	50.2	51.2	P/P	21 - 109
2429555	Methoxychlor	77.2	69.8	P/P	46 - 118
2429555	MGK-264	71.3	68.8	P/P	39 - 122
2429555	Mirex	41.8	44.6	P/P	25 - 90.0
2429555	Oxychlordane	51.4	52.3	P/P	42 - 100
2429555	Permethrin	60.6	84.9	P/P	33 - 181
2429555	Phenothrin	55.1	58.4	P/P	12 - 125
2429555	Piperonyl Butoxide	147	141	P/P	10 - 178
2429555	Prallethrin	58.7	69.9	P/P	24 - 122
2429555	Tau-Fluvalinate	73.7	97.8	P/P	13 - 151
2429555	Tetramethrin	80.1	97.7	P/P	16 - 172
2429555	Trans-Nonachlor	53.8	57.4	P/P	39 - 100
2429555	Triclosan Methyl	61.7	55.4	P/P	43 - 110
2429555	Trifluralin	48.1	48.6	P/P	45 - 94.0
2430112	PCB-1016	53.6	57.8	P/P	45 - 107
2430112	PCB-1260	66.5	66.3	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P433679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P433679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430112	Chlordane	78.1	75.0	P/P	43 - 123
2430112	Toxaphene	92.4	93.6	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P433683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2429553	3-Hydroxycarbofuran	88.4	92.2	P/P	40 - 150
2429553	Aldicarb	60.9	58.3	P/P	30 - 150
2429553	Aldicarb Sulfone	91.6	98.8	P/P	40 - 150
2429553	Aldicarb Sulfoxide	32.0	36.6	F/F	40 - 150
2429553	Carbaryl	70.2	92.5	P/P	40 - 150
2429553	Carbofuran	57.1	56.0	P/P	40 - 150
2429553	Methiocarb	65.5	85.7	P/P	40 - 150
2429553	Methomyl	81.8	82.2	P/P	40 - 150
2429553	Oxamyl	84.7	96.0	P/P	40 - 150
2429553	Propoxur	68.8	75.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P433687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430006	2,4-D	88.5	97.5	P/P	40 - 150
2430006	2,4,5-T	113	109	P/P	40 - 150
2430006	Acetaminophen	62.7	64.4	P/P	30 - 150
2430006	Acetamiprid	29.0	38.9	F/F	40 - 150
2430006	Afidopyropen	50.0	65.0	P/P	30 - 150
2430006	Benzovindiflupyr	61.7	51.1	P/P	40 - 150
2430006	Carbamazepine	34.1	37.4	F/F	40 - 150
2430006	Clothianidin	61.0	57.3	P/P	40 - 150
2430006	Dinotefuran	48.1	53.3	P/P	40 - 150
2430006	Diuron	34.3	32.4	F/F	40 - 150
2430006	Fenuron	41.0	38.6	P/F	40 - 150
2430006	Hydrocodone	44.5	44.4	P/P	40 - 150
2430006	Ibuprofen	59.5	73.8	P/P	40 - 150
2430006	Imazapyr	104	97.6	P/P	40 - 150
2430006	Imidacloprid	80.1	86.8	P/P	40 - 150
2430006	Linuron	59.5	57.4	P/P	40 - 150
2430006	Mandestrobin	92.2	80.6	P/P	40 - 150
2430006	MCPP	115	105	P/P	40 - 150
2430006	Naproxen	73.0	55.3	P/P	40 - 150
2430006	Primidone	64.1	64.0	P/P	40 - 150
2430006	Pyraclostrobin	62.1	65.7	P/P	40 - 150
2430006	Silvex	105	107	P/P	40 - 150
2430006	Thiamethoxam	58.3	55.8	P/P	40 - 150
2430006	Tolfenpyrad	64.8	54.8	P/P	30 - 150
2430006	Triclopyr	101	98.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P433724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P433724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430105	Acesulfame K	117	119	P/P	40 - 150
2430105	AMPA	95.8	106	P/P	40 - 150
2430105	Endothall	110	97.5	P/P	40 - 150
2430105	Glufosinate	96.1	95.3	P/P	40 - 150
2430105	Glyphosate	99.0	99.5	P/P	40 - 150
2430105	Sucralose	89.0	90.6	P/P	40 - 150

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P433648

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2429511	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.36	Spike	P	0 - 37
2429511	Acetochlor	7.14	Spike	P	0 - 28
2429511	Alachlor	12.5	Spike	P	0 - 30
2429511	Ametryn	3.61	Spike	P	0 - 32
2429511	Atrazine	4.10	Spike	P	0 - 41
2429511	Atrazine Desethyl	7.82	Spike	P	0 - 36
2429511	Avobenzone	4.88	Spike	P	0 - 36
2429511	Azinphos Methyl	13.0	Spike	P	0 - 75
2429511	Azoxystrobin	9.90	Spike	P	0 - 39
2429511	Bromacil	0.111	Spike	P	0 - 33
2429511	Butylate	7.29	Spike	P	0 - 44
2429511	Caffeine	2.00	Spike	P	0 - 74
2429511	Carbophenothion	0.689	Spike	P	0 - 25
2429511	Carfentrazone Ethyl	2.24	Spike	P	0 - 27
2429511	Chlorfenapyr	5.33	Spike	P	0 - 24
2429511	Chlorpyrifos Ethyl	6.76	Spike	P	0 - 26
2429511	Chlorpyrifos Methyl	10.6	Spike	P	0 - 26
2429511	Coumaphos	9.91	Spike	P	0 - 28
2429511	Cyanazine	2.65	Spike	P	0 - 48
2429511	Cyprodinil	5.80	Spike	P	0 - 29
2429511	Dechlorane 602	17.4	Spike	P	0 - 30
2429511	Dechlorane 603	1.84	Spike	P	0 - 30
2429511	Dechlorane Plus	3.39	Spike	P	0 - 30
2429511	Demeton	4.47	Spike	P	0 - 33
2429511	Diazinon	3.59	Spike	P	0 - 29
2429511	Difenoconazole	21.6	Spike	P	0 - 34
2429511	Dimethenamid	5.35	Spike	P	0 - 39
2429511	Dimethomorph	7.79	Spike	P	0 - 51
2429511	Disulfoton	1.89	Spike	P	0 - 30
2429511	Dithiopyr	0.00400	Spike	P	0 - 26
2429511	EPTC	7.86	Spike	P	0 - 43
2429511	Ethion	9.88	Spike	P	0 - 79
2429511	Ethoprop	5.40	Spike	P	0 - 29
2429511	Etridiazole	3.06	Spike	P	0 - 33
2429511	Fenamiphos	1.89	Spike	P	0 - 40
2429511	Fenbuconazole	8.26	Spike	P	0 - 74
2429511	Fipronil	4.09	Spike	P	0 - 29
2429511	Fipronil Desulfinyl	7.41	Spike	P	0 - 32
2429511	Fipronil Sulfide	6.22	Spike	P	0 - 30
2429511	Fipronil Sulfone	5.71	Spike	P	0 - 33
2429511	Fluazifop-P-butyl	7.46	Spike	P	0 - 38
2429511	Fludioxonil	15.7	Spike	P	0 - 29
2429511	Flumioxazin	22.6	Spike	P	0 - 51
2429511	Flutolanil	8.16	Spike	P	0 - 25
2429511	Fluxapyroxad	9.45	Spike	P	0 - 45
2429511	Fonofos	2.24	Spike	P	0 - 27
2429511	Hexabromobenzene	0.802	Spike	P	0 - 30
2429511	Hexazinone	9.83	Spike	P	0 - 30
2429511	Imazalil	1.15	Spike	P	0 - 100
2429511	Iprodione	12.7	Spike	P	0 - 33
2429511	Loratadine	13.0	Spike	P	0 - 56

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P433648

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2429511	Malathion	2.69	Spike	P	0 - 37
2429511	Metalaxyl	0.713	Spike	P	0 - 40
2429511	Metolachlor	21.8	Spike	P	0 - 29
2429511	Metribuzin	11.1	Spike	P	0 - 45
2429511	Mevinphos	1.69	Spike	P	0 - 29
2429511	Molinate	12.9	Spike	P	0 - 33
2429511	Myclobutanil	4.46	Spike	P	0 - 26
2429511	Naled	3.65	Spike	P	0 - 37
2429511	Napropamide	2.72	Spike	P	0 - 44
2429511	Norflurazon	7.52	Spike	P	0 - 30
2429511	Octinoxate	5.44	Spike	P	0 - 45
2429511	Oxadiazon	5.86	Spike	P	0 - 28
2429511	Oxybenzone	8.78	Spike	P	0 - 46
2429511	Oxyfluorfen	4.70	Spike	P	0 - 28
2429511	Parathion Ethyl	5.61	Spike	P	0 - 31
2429511	Parathion Methyl	5.72	Spike	P	0 - 29
2429511	PBB-153	0.153	Spike	P	0 - 30
2429511	PBDE-47	5.14	Spike	P	0 - 36
2429511	PBDE-99	6.97	Spike	P	0 - 40
2429511	Pendimethalin	3.98	Spike	P	0 - 33
2429511	Pentabromotoluene	5.63	Spike	P	0 - 30
2429511	Phenytoin	9.92	Spike	P	0 - 100
2429511	Phorate	0.817	Spike	P	0 - 36
2429511	Prodiamine	6.45	Spike	P	0 - 71
2429511	Prometon	2.93	Spike	P	0 - 36
2429511	Prometryn	12.9	Spike	P	0 - 28
2429511	Pronamide	6.98	Spike	P	0 - 24
2429511	Propanil	4.25	Spike	P	0 - 28
2429511	Propargite	1.89	Spike	P	0 - 43
2429511	Propiconazole	11.2	Spike	P	0 - 33
2429511	Pyraflufen Ethyl	12.0	Spike	P	0 - 29
2429511	Pyridaben	23.9	Spike	P	0 - 30
2429511	Pyriproxyfen	8.15	Spike	P	0 - 79
2429511	Simazine	2.84	Spike	P	0 - 29
2429511	Stirophos	10.3	Spike	P	0 - 61
2429511	Sulfentrazone	2.69	Spike	P	0 - 33
2429511	Tebuconazole	13.7	Spike	P	0 - 69
2429511	Terbufos	1.35	Spike	P	0 - 29
2429511	Terbuthylazine	4.58	Spike	P	0 - 32
2429511	Tetradecachloro-m-terphenyl	17.8	Spike	P	0 - 30
2429511	Thiobencarb	6.74	Spike	P	0 - 26
2429511	Tri-o-cresyl Phosphate	5.63	Spike	P	0 - 33
2429511	Triadimefon	1.19	Spike	P	0 - 28
2429511	Tris(1-chloro-2-propyl) phosphate (TCPP)	11.3	Spike	P	0 - 30
2429511	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	6.68	Spike	P	0 - 30
2429511	Tris(2-chloroethyl) phosphate (TCEP)	5.70	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P433679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2429555	Aldrin	14.9	Spike	P	0 - 41
2429555	Alpha-BHC	9.96	Spike	P	0 - 25
2429555	Alpha-Chlordane	0.887	Spike	P	0 - 32
2429555	Beta-BHC	9.08	Spike	P	0 - 33
2429555	Beta-Cyfluthrin	1.38	Spike	P	0 - 43
2429555	Bifenthrin	2.80	Spike	P	0 - 52
2429555	Chlorothalonil	14.3	Spike	P	0 - 82
2429555	Cis-Nonachlor	0.0414	Spike	P	0 - 33
2429555	Cypermethrin	0.00964	Spike	P	0 - 51
2429555	Dacthal	14.0	Spike	P	0 - 27
2429555	DDD-p,p'	2.50	Spike	P	0 - 39
2429555	DDE-p,p'	4.47	Spike	P	0 - 31
2429555	DDT-p,p'	0.914	Spike	P	0 - 29
2429555	Delta-BHC	8.38	Spike	P	0 - 35
2429555	Deltamethrin	11.6	Spike	P	0 - 100
2429555	Dichlobenil	7.91	Spike	P	0 - 40
2429555	Dicofol	1.21	Spike	P	0 - 37
2429555	Dieldrin	8.21	Spike	P	0 - 27
2429555	Endosulfan I	0.808	Spike	P	0 - 23
2429555	Endosulfan II	2.46	Spike	P	0 - 34
2429555	Endosulfan Sulfate	4.13	Spike	P	0 - 36
2429555	Endrin	7.22	Spike	P	0 - 45
2429555	Endrin Aldehyde	27.7	Spike	P	0 - 76
2429555	Endrin Ketone	14.3	Spike	P	0 - 43
2429555	Esfenvalerate	15.5	Spike	P	0 - 51
2429555	Ethalfluralin	8.64	Spike	P	0 - 22
2429555	Fenpropathrin	4.92	Spike	P	0 - 49
2429555	Gamma-BHC	12.0	Spike	P	0 - 28
2429555	Gamma-Chlordane	2.84	Spike	P	0 - 40
2429555	Heptachlor	8.72	Spike	P	0 - 29
2429555	Heptachlor Epoxide	1.75	Spike	P	0 - 33
2429555	Hexachlorobenzene	7.67	Spike	P	0 - 36
2429555	Kepone	2.73	Spike	P	0 - 85
2429555	Lambda-Cyhalothrin	10.4	Spike	P	0 - 55
2429555	Methoprene	2.04	Spike	P	0 - 53
2429555	Methoxychlor	9.98	Spike	P	0 - 50
2429555	MGK-264	3.50	Spike	P	0 - 43
2429555	Mirex	6.39	Spike	P	0 - 40
2429555	Oxychlordane	1.72	Spike	P	0 - 31
2429555	Permethrin	33.4	Spike	P	0 - 50
2429555	Phenothrin	5.77	Spike	P	0 - 58
2429555	Piperonyl Butoxide	3.67	Spike	P	0 - 100
2429555	Prallethrin	17.3	Spike	P	0 - 39
2429555	Tau-Fluvalinate	28.0	Spike	P	0 - 54
2429555	Tetramethrin	16.7	Spike	P	0 - 51
2429555	Trans-Nonachlor	6.54	Spike	P	0 - 39
2429555	Triclosan Methyl	10.7	Spike	P	0 - 31
2429555	Trifluralin	1.08	Spike	P	0 - 22
2430112	PCB-1016	7.57	Spike	P	0 - 25
2430112	PCB-1260	0.232	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P433679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430112	Chlordane	4.00	Spike	P	0 - 28
2430112	Toxaphene	1.36	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P433683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2429553	3-Hydroxycarbofuran	4.16	Spike	P	0 - 30
2429553	Aldicarb	4.32	Spike	P	0 - 30
2429553	Aldicarb Sulfone	7.52	Spike	P	0 - 30
2429553	Aldicarb Sulfoxide	13.5	Spike	P	0 - 30
2429553	Carbaryl	27.4	Spike	P	0 - 30
2429553	Carbofuran	1.89	Spike	P	0 - 30
2429553	Methiocarb	26.7	Spike	P	0 - 30
2429553	Methomyl	0.428	Spike	P	0 - 30
2429553	Oxamyl	12.6	Spike	P	0 - 30
2429553	Propoxur	8.70	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P433687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430006	2,4-D	8.76	Spike	P	0 - 30
2430006	2,4,5-T	3.58	Spike	P	0 - 30
2430006	Acetaminophen	2.78	Spike	P	0 - 30
2430006	Acetamiprid	29.1	Spike	P	0 - 30
2430006	Afidopyropen	26.1	Spike	P	0 - 30
2430006	Bentazon	4.45	Spike	P	0 - 30
2430006	Benzovindiflupyr	18.9	Spike	P	0 - 30
2430006	Carbamazepine	7.87	Spike	P	0 - 30
2430006	Clothianidin	6.20	Spike	P	0 - 30
2430006	Dinotefuran	10.4	Spike	P	0 - 30
2430006	Diuron	5.87	Spike	P	0 - 30
2430006	Fenuron	6.09	Spike	P	0 - 30
2430006	Fluridone	27.2	Spike	P	0 - 30
2430006	Hydrocodone	0.235	Spike	P	0 - 30
2430006	Ibuprofen	21.5	Spike	P	0 - 30
2430006	Imazapyr	4.61	Spike	P	0 - 30
2430006	Imidacloprid	7.98	Spike	P	0 - 30
2430006	Linuron	3.64	Spike	P	0 - 30
2430006	Mandestrobin	13.4	Spike	P	0 - 30
2430006	MCPP	8.32	Spike	P	0 - 30
2430006	Naproxen	27.6	Spike	P	0 - 30
2430006	Primidone	0.0428	Spike	P	0 - 30
2430006	Pyraclostrobin	5.58	Spike	P	0 - 30
2430006	Silvex	2.28	Spike	P	0 - 30
2430006	Thiamethoxam	4.32	Spike	P	0 - 30
2430006	Tolfenpyrad	16.7	Spike	P	0 - 30
2430006	Triclopyr	2.75	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P433724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430105	Acesulfame K	1.82	Spike	P	0 - 30
2430105	AMPA	10.2	Spike	P	0 - 30
2430105	Endothall	11.8	Spike	P	0 - 30
2430105	Glufosinate	0.823	Spike	P	0 - 30
2430105	Glyphosate	0.463	Spike	P	0 - 30
2430105	Sucralose	1.65	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2430330
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	30.9	P	30 - 160

Lab Sample ID: 2430331
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	54.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	40.7	P	30 - 160
EPA 8321B	Diuron-d6	37.8	P	30 - 160
EPA 8321B	Endothall-d6	120	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	63.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.9	P	30 - 160
EPA 8321B	Primidone-d5	30.2	P	30 - 160
EPA 8321B	Sucralose-d6	45.9	P	30 - 160

Lab Sample ID: 2430332
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.5	P	37 - 129
EPA 8270E	Decachlorobiphenyl	78.6	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	48.9	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	54.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	58.0	P	28 - 102
EPA 8276	PCNB	93.5	P	49 - 115

Lab Sample ID: 2430333
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	93.3	P	20 - 200
EPA 8270E	Simazine-d10	92.7	P	62 - 142
EPA 8270E	Terbufos-d10	115	P	58 - 132
EPA 8270E	Terphenyl-d14	90.6	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A121009
Included Lab Sample IDs: 2430331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	71.9	79.0	P/P	60 - 160
Endothall	112	86.3	P/P	60 - 160
Glufosinate	84.5	87.3	P/P	60 - 160
Glyphosate	97.5	101	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A121022
Included Lab Sample IDs: 2430331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	133	119	P/P	60 - 160
Sucralose	97.8	105	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A121038
Included Lab Sample IDs: 2430330

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	112	94.8	P/P	60 - 150
Aldicarb	110	93.0	P/P	60 - 150
Aldicarb Sulfone	109	89.9	P/P	50 - 150
Aldicarb Sulfoxide	104	86.1	P/P	50 - 150
Carbaryl	106	133	P/P	60 - 150
Carbofuran	85.6	105	P/P	50 - 150
Methiocarb	94.6	80.2	P/P	50 - 150
Methomyl	105	96.5	P/P	50 - 150
Oxamyl	105	100	P/P	50 - 150
Propoxur	116	110	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A121041
Included Lab Sample IDs: 2430332

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.0		P	80 - 120
PCB-1260	112		P	80 - 120

Reference Method: EPA 8321B
Run ID: A121056
Included Lab Sample IDs: 2430331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	87.8	106	P/P	50 - 150
2,4,5-T	96.7	91.0	P/P	50 - 150
Acetaminophen	99.4	93.5	P/P	60 - 160
Acetamiprid	112	111	P/P	50 - 150
Afidopyropen	106	110	P/P	50 - 150
Bentazon	114	101	P/P	50 - 160
Benzovindiflupyr	115	99.2	P/P	50 - 150
Carbamazepine	125	109	P/P	60 - 150
Clothianidin	97.0	97.4	P/P	60 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A121056
Included Lab Sample IDs: 2430331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dinotefuran	96.8	71.0	P/P	50 - 150
Diuron	101	115	P/P	60 - 160
Fenuron	129	124	P/P	60 - 150
Fluridone	87.1	88.8	P/P	60 - 160
Hydrocodone	110	139	P/P	60 - 150
Ibuprofen	103	84.9	P/P	50 - 160
Imazapyr	94.2	106	P/P	50 - 150
Imidacloprid	85.9	114	P/P	60 - 150
Linuron	64.6	87.7	P/P	60 - 150
Mandestrobin	91.5	89.6	P/P	50 - 150
MCPP	97.8	95.0	P/P	50 - 150
Naproxen	79.0	141	P/P	50 - 160
Primidone	96.5	116	P/P	60 - 150
Pyraclostrobin	102	115	P/P	60 - 150
Silvex	96.8	98.4	P/P	50 - 150
Thiamethoxam	88.5	122	P/P	50 - 150
Tolfenpyrad	96.7	101	P/P	60 - 150
Triclopyr	99.8	84.5	P/P	50 - 150

Reference Method: EPA 8276
Run ID: A121077
Included Lab Sample IDs: 2430332

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.9		P	80 - 120
Toxaphene	95.4		P	80 - 120

Reference Method: EPA 8270E
Run ID: A121090
Included Lab Sample IDs: 2430332

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	115		P	80 - 120
Alpha-BHC	89.1		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	99.2		P	80 - 120
Beta-Cyfluthrin	115		P	80 - 120
Bifenthrin	88.9		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	83.2		P	80 - 120
Cypermethrin	110		P	80 - 120
Dacthal	89.4		P	80 - 120
DDD-p,p'	81.7		P	80 - 120
DDE-p,p'	97.5		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	115		P	80 - 120
Deltamethrin	111		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	93.7		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	87.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A121090
Included Lab Sample IDs: 2430332

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan II	93.8		P	80 - 120
Endosulfan Sulfate	99.8		P	80 - 120
Endrin	104		P	80 - 120
Endrin Aldehyde	88.6		P	80 - 120
Endrin Ketone	107		P	80 - 120
Esfenvalerate	111		P	80 - 120
Ethalfluralin	85.0		P	80 - 120
Fenpropathrin	97.7		P	80 - 120
Gamma-BHC	98.5		P	80 - 120
Gamma-Chlordane	89.7		P	80 - 120
Heptachlor	103		P	80 - 120
Heptachlor Epoxide	118		P	80 - 120
Hexachlorobenzene	98.3		P	80 - 120
Kepone	117		P	80 - 120
Lambda-Cyhalothrin	97.6		P	80 - 120
Methoprene	85.2		P	80 - 120
Methoxychlor	98.6		P	80 - 120
MGK-264	96.8		P	80 - 120
Mirex	87.9		P	80 - 120
Oxychlordane	105		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	111		P	80 - 120
Piperonyl Butoxide	116		P	80 - 120
Prallethrin	94.6		P	80 - 120
Tau-Fluvalinate	113		P	80 - 120
Tetramethrin	101		P	80 - 120
Trans-Nonachlor	90.8		P	80 - 120
Triclosan Methyl	95.7		P	80 - 120
Trifluralin	81.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A121110
Included Lab Sample IDs: 2430333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.7		P	80 - 120
Avobenzone	90.6		P	80 - 120
Dechlorane 602	97.7		P	80 - 120
Dechlorane 603	91.7		P	80 - 120
Dechlorane Plus	90.1		P	80 - 120
Hexabromobenzene	94.4		P	80 - 120
Octinoxate	96.4		P	80 - 120
Oxybenzone	101		P	80 - 120
PBB-153	90.6		P	80 - 120
PBDE-47	95.4		P	80 - 120
PBDE-99	94.9		P	80 - 120
Pentabromotoluene	98.9		P	80 - 120
Tetradecachloro-m-terphenyl	82.3		P	80 - 120
Tri-o-cresyl Phosphate	96.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	97.5		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A121110
Included Lab Sample IDs: 2430333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(2-chloroethyl) phosphate (TCEP)	102		P	80 - 120

Reference Method: EPA 8270E
Run ID: A121169
Included Lab Sample IDs: 2430333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.0		P	80 - 120
Alachlor	91.1		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	90.8		P	80 - 120
Azinphos Methyl	93.4		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	97.7		P	80 - 120
Caffeine	98.6		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	88.0		P	80 - 120
Chlorpyrifos Ethyl	86.5		P	80 - 120
Chlorpyrifos Methyl	96.5		P	80 - 120
Coumaphos	95.3		P	80 - 120
Cyanazine	99.8		P	80 - 120
Cyprodinil	112		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	99.7		P	80 - 120
Difenoconazole	94.7		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	84.0		P	80 - 120
Disulfoton	98.3		P	80 - 120
Dithiopyr	99.8		P	80 - 120
EPTC	100		P	80 - 120
Ethion	88.8		P	80 - 120
Ethoprop	90.9		P	80 - 120
Etridiazole	98.0		P	80 - 120
Fenamiphos	85.5		P	80 - 120
Fenbuconazole	86.2		P	80 - 120
Fipronil	85.5		P	80 - 120
Fipronil Desulfinyl	98.4		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	114		P	80 - 120
Flumioxazin	93.5		P	80 - 120
Flutolanil	98.9		P	80 - 120
Fluxapyroxad	93.5		P	80 - 120
Fonofos	96.9		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	92.4		P	80 - 120
Iprodione	83.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A121169
Included Lab Sample IDs: 2430333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	87.6		P	80 - 120
Malathion	85.7		P	80 - 120
Metalaxyl	88.6		P	80 - 120
Metolachlor	99.6		P	80 - 120
Metribuzin	97.3		P	80 - 120
Mevinphos	87.4		P	80 - 120
Molinate	84.8		P	80 - 120
Myclobutanil	87.7		P	80 - 120
Naled	110		P	80 - 120
Napropamide	100		P	80 - 120
Norflurazon	101		P	80 - 120
Oxadiazon	96.2		P	80 - 120
Oxyfluorfen	103		P	80 - 120
Parathion Ethyl	99.3		P	80 - 120
Parathion Methyl	89.2		P	80 - 120
Pendimethalin	98.9		P	80 - 120
Phenytoin	96.4		P	80 - 120
Phorate	98.7		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	105		P	80 - 120
Propanil	99.3		P	80 - 120
Propargite	97.2		P	80 - 120
Propiconazole	84.4		P	80 - 120
Pyraflufen Ethyl	98.1		P	80 - 120
Pyridaben	96.7		P	80 - 120
Pyriproxyfen	98.9		P	80 - 120
Simazine	97.5		P	80 - 120
Stirophos	89.8		P	80 - 120
Sulfentrazone	98.3		P	80 - 120
Tebuconazole	97.9		P	80 - 120
Terbufos	97.4		P	80 - 120
Terbuthylazine	89.1		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	99.2		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)	103	92.4	91.1			1.36
	Acetochlor	87.2	91.7	98.5			7.14
	Alachlor	101	88.9	101			12.5
	Aldrin	65.6	32.3	37.6			14.9
	Alpha-BHC	102	81.1	89.6			9.96
	Alpha-Chlordane	63.8	45.1	44.7			0.887
	Ametryn	123	139	144			3.61
	Atrazine	91.2					4.10
	Atrazine Desethyl	77.4	65.5	72.2			7.82
	Avobenzone	131	132	126			4.88
	Azinphos Methyl	140	141	124			13.0
	Azoxystrobin	104	125	138			9.90
	Beta-BHC	83.8	78.2	85.6			9.08
	Beta-Cyfluthrin	95.7	60.9	61.7			1.38
	Bifenthrin	68.7	49.0	50.4			2.80
	Bromacil	104	98.7	98.8			0.111
	Butylate	62.0	55.0	59.1			7.29
	Caffeine	96.1	102	99.9			2.00
	Carbophenothion	102	101	100			0.689
	Carfentrazone Ethyl	129	114	116			2.24
	Chlorfenapyr	96.8	79.9	84.3			5.33
	Chlorothalonil	61.4	72.1	83.2			14.3
	Chlorpyrifos Ethyl	84.6	83.7	89.6			6.76
	Chlorpyrifos Methyl	102	87.8	97.6			10.6
	Cis-Nonachlor	57.7	41.5	41.6			0.0414
	Coumaphos	158	135	149			9.91
	Cyanazine	129	131	134			2.65
	Cypermethrin	111	72.9	72.9			0.0096
	Cyprodinil	103	84.4	89.4			5.80
	Dacthal	87.7	61.9	71.2			14.0
	DDD-p,p'	64.2	51.3	50.0			2.50
	DDE-p,p'	68.6	51.2	53.5			4.47
	DDT-p,p'	61.9	44.9	45.3			0.914
	Dechlorane 602	94.6	77.7	65.3			17.4
	Dechlorane 603	113	117	115			1.84
	Dechlorane Plus	121	98.0	101			3.39
	Delta-BHC	85.6	91.5	99.5			8.38
	Deltamethrin	106	77.8	69.3			11.6
	Demeton	74.8	81.6	85.3			4.47
	Diazinon	99.2	110	114			3.59
	Dichlobenil	60.7	49.9	54.0			7.91
	Dicofol	68.6	45.4	44.9			1.21
	Dieldrin	65.4	45.3	49.2			8.21
	Difenoconazole	179	129	160			21.6
	Dimethenamid	93.0	83.8	88.5			5.35
	Dimethomorph	214	233	252			7.79
	Disulfoton	96.5	105	107			1.89
	Dithiopyr	93.6	97.5	97.5			0.0040
	Endosulfan I	76.8	52.7	52.3			0.808
	Endosulfan II	69.4	59.5	61.0			2.46
	Endosulfan Sulfate	70.2	54.6	52.4			4.13
	Endrin	71.8	49.5	53.2			7.22

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Endrin Aldehyde	62.0	58.3	44.1			27.7
	Endrin Ketone	85.0	85.3	73.9			14.3
	EPTC	64.5	53.9	58.3			7.86
	Esfenvalerate	107	73.5	85.9			15.5
	Ethalfluralin	88.4	54.7	59.6			8.64
	Ethion	79.4	61.4	67.8			9.88
	Ethoprop	97.9	101	107			5.40
	Etridiazole	66.5	64.0	65.9			3.06
	Fenamiphos	92.8	97.4	99.3			1.89
	Fenbuconazole	108	88.9	97.3			8.26
	Fenpropathrin	75.8	45.7	48.0			4.92
	Fipronil	96.5	95.0	98.9			4.09
	Fipronil Desulfinyl	99.8	89.3	97.0			7.41
	Fipronil Sulfide	101	102	95.6			6.22
	Fipronil Sulfone	103	93.0	99.2			5.71
	Fluazifop-P-butyl	103	92.2	99.4			7.46
	Fludioxonil	95.9	74.4	87.1			15.7
	Flumioxazin	179	136	171			22.6
	Flutolanil	89.2	77.4	71.3			8.16
	Fluxapyroxad	101	85.4	93.9			9.45
	Fonofos	103	97.6	95.5			2.24
	Gamma-BHC	73.3	70.1	79.0			12.0
	Gamma-Chlordane	71.1	46.6	48.0			2.84
	Heptachlor	61.8	38.4	41.9			8.72
	Heptachlor Epoxide	79.4	52.5	53.4			1.75
	Hexabromobenzene	110	114	113			0.802
	Hexachlorobenzene	55.1	37.7	40.7			7.67
	Hexazinone	91.9	103	92.9			9.83
	Imazalil	86.0	96.6	95.5			1.15
	Iprodione	82.4	83.6	73.6			12.7
	Kepone	81.6	68.4	66.6			2.73
	Lambda-Cyhalothrin	82.1	56.2	62.3			10.4
	Loratadine	174	185	162			13.0
	Malathion	102	90.3	87.9			2.69
	Metalaxyl	86.9	105	104			0.713
	Methoprene	75.9	50.2	51.2			2.04
	Methoxychlor	111	77.2	69.8			9.98
	Metolachlor	103	117	90.9			21.8
	Metribuzin	94.9	105	94.3			11.1
	Mevinphos	101	108	106			1.69
	MGK-264	76.6	71.3	68.8			3.50
	Mirex	67.0	41.8	44.6			6.39
	Molinate	54.7	60.0	52.7			12.9
	Myclobutanil	98.4	98.2	93.9			4.46
	Naled	51.7	52.8	54.7			3.65
	Napropamide	89.8	80.8	78.6			2.72
	Norflurazon	99.9	93.2	84.9			7.52
	Octinoxate	121	129	122			5.44
	Oxadiazon	84.4	94.7	89.3			5.86
	Oxybenzone	115	133	122			8.78
	Oxychlordane	82.9	51.4	52.3			1.72
	Oxyfluorfen	109	126	120			4.70
	Parathion Ethyl	93.4	102	96.9			5.61
	Parathion Methyl	104	106	100			5.72

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	PBB-153	112	113	113			0.153
	PBDE-47	102	98.4	93.5			5.14
	PBDE-99	101	87.3	81.4			6.97
	PCB-1016	64.4	53.6	57.8			7.57
	PCB-1260	81.5	66.5	66.3			0.232
	Pendimethalin	103	104	100			3.98
	Pentabromotoluene	103	110	104			5.63
	Permethrin	83.4	60.6	84.9			33.4
	Phenothrin	73.7	55.1	58.4			5.77
	Phenytoin	50.4	62.8	56.8			9.92
	Phorate	110	111	110			0.817
	Piperonyl Butoxide	149	147	141			3.67
	Prallethrin	80.8	58.7	69.9			17.3
	Prodiamine	39.7	37.0	39.4			6.45
	Prometon	97.9	117	113			2.93
	Prometryn	113	130	114			12.9
	Pronamide	111	125	117			6.98
	Propanil	101	105	101			4.25
	Propargite	86.5	69.7	68.4			1.89
	Propiconazole	91.5	96.9	86.7			11.2
	Pyraflufen Ethyl	109	104	92.4			12.0
	Pyridaben	137	135	101			23.9
	Pyriproxyfen	97.2	96.5	88.9			8.15
	Simazine	92.1	89.8	86.3			2.84
	Stirophos	69.0	54.0	48.7			10.3
	Sulfentrazone	68.9	91.6	89.1			2.69
	Tau-Fluvalinate	111	73.7	97.8			28.0
	Tebuconazole	70.0	64.3	56.1			13.7
	Terbufos	107	123	124			1.35
	Terbuthylazine	87.8	89.3	85.3			4.58
	Tetradecachloro-m-terphenyl	123	106	126			17.8
	Tetramethrin	106	80.1	97.7			16.7
	Thiobencarb	96.2	94.4	88.3			6.74
	Trans-Nonachlor	89.9	53.8	57.4			6.54
	Tri-o-cresyl Phosphate	117	123	116			5.63
	Triadimefon	94.1	94.6	93.5			1.19
	Triclosan Methyl	98.1	61.7	55.4			10.7
	Trifluralin	86.5	48.1	48.6			1.08
	Tris(1-chloro-2-propyl) phosphate (TCPP)	117	126	111			11.3
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	118	119	111			6.68
	Tris(2-chloroethyl) phosphate (TCEP)	117	118	111			5.70
EPA 8276	Chlordane	83.8	78.1	75.0			4.00
	Toxaphene	96.0	92.4	93.6			1.36
EPA 8321B	2,4-D	71.5	88.5	97.5			8.76
	2,4,5-T	70.0	113	109			3.58
	3-Hydroxycarbofuran	90.4	88.4	92.2			4.16
	Acesulfame K	110	117	119			1.82
	Acetaminophen	73.7	62.7	64.4			2.78
	Acetamiprid	76.5	29.0	38.9			29.1
	Afidopyropen	46.7	50.0	65.0			26.1
	Aldicarb	65.2	60.9	58.3			4.32

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Aldicarb Sulfone	81.0	91.6	98.8			7.52
	Aldicarb Sulfoxide	86.8	32.0	36.6			13.5
	AMPA	81.8	95.8	106			10.2
	Bentazon	146					4.45
	Benzovindiflupyr	63.5	61.7	51.1			18.9
	Carbamazepine	53.7	34.1	37.4			7.87
	Carbaryl	87.9	70.2	92.5			27.4
	Carbofuran	65.1	57.1	56.0			1.89
	Clothianidin	96.0	61.0	57.3			6.20
	Dinotefuran	140	48.1	53.3			10.4
	Diuron	54.7	34.3	32.4			5.87
	Endothall	97.7	110	97.5			11.8
	Fenuron	103	41.0	38.6			6.09
	Fluridone	107					27.2
	Glufosinate	101	96.1	95.3			0.823
	Glyphosate	120	99.0	99.5			0.463
	Hydrocodone	92.2	44.5	44.4			0.235
	Ibuprofen	60.5	59.5	73.8			21.5
	Imazapyr	96.2	104	97.6			4.61
	Imidacloprid	78.3	80.1	86.8			7.98
	Linuron	92.0	59.5	57.4			3.64
	Mandestrobin	83.7	92.2	80.6			13.4
	MCPP	84.7	115	105			8.32
	Methiocarb	65.1	65.5	85.7			26.7
	Methomyl	77.3	81.8	82.2			0.428
	Naproxen	54.8	73.0	55.3			27.6
	Oxamyl	80.2	84.7	96.0			12.6
	Primidone	97.6	64.1	64.0			0.0428
	Propoxur	68.0	68.8	75.0			8.70
	Pyraclostrobin	64.4	62.1	65.7			5.58
	Silvex	81.1	105	107			2.28
	Sucralose	92.4	89.0	90.6			1.65
	Thiamethoxam	90.8	58.3	55.8			4.32
	Tolfenpyrad	50.5	64.8	54.8			16.7
	Triclopyr	70.2	101	98.5			2.75

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2430333
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2430332
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2430333
EPA 8270E	PCBs in water matrices by GC/MS/MS	2430332
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2430332
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2430330
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2430331

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	08/10/2023	08/11/2023 08:00	Fe-Val Siddell	08/15/2023 02:34	Julie Wi	2430332
	08/10/2023	08/11/2023 08:00	Fe-Val Siddell	08/16/2023 20:27	Julie Wi	2430332
	08/10/2023	08/14/2023 08:30	Rasheda Ghaffari	08/17/2023 00:17	Vandana T. Nagar	2430333
	08/10/2023	08/14/2023 08:30	Rasheda Ghaffari	08/17/2023 22:33	Arthur Maknenko	2430333
EPA 8276	08/10/2023	08/11/2023 08:00	Fe-Val Siddell	08/15/2023 11:42	Arthur Maknenko	2430332
EPA 8321B	08/10/2023	08/11/2023 09:00	Hana Lee	08/11/2023 13:51	Tae K Lee	2430331
	08/10/2023	08/11/2023 09:00	Hana Lee	08/12/2023 04:46	Tae K Lee	2430331
	08/10/2023	08/11/2023 09:00	Hoor Shaik	08/16/2023 00:04	Juyoung Kim	2430331
	08/10/2023	08/14/2023 09:00	Hoor Shaik	08/14/2023 23:56	Juyoung Kim	2430330