Chemical Analysis Report

SE-DIST-2022-01-25-02

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Vero Beach**
Request ID: **RQ-2022-01-24-27**
Customer: **SE-DIST**
Project ID: **SMP**

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FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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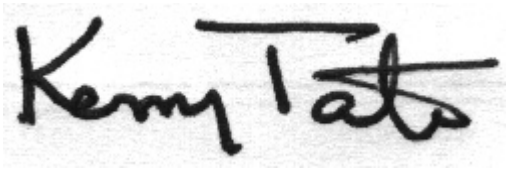
Date Certified: 11-FEB-2022 09:50



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: Vero North Canal @ 66th Ave **Collection Date/Time: 01/24/2022 09:20**

Field ID: G5SE0069 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2301386	EPA 8321B	2,4-D	0.034		ug/L	P408990	
		Acesulfame K	0.12	I	ug/L	P408915	
		2,4,5-T	0.0040	U	ug/L	P408990	
		AMPA	1.2		ug/L	P408915	
		Acetaminophen	0.0080	U	ug/L	P408990	
		Acetamiprid	0.0020	U	ug/L	P408990	
		Endothall	0.25	U	ug/L	P408915	
		Glufosinate	0.10	U	ug/L	P408915	
		Glyphosate	4.0		ug/L	P408915	
		Afidopyropen	0.0020	U	ug/L	P408990	
		Bentazon	0.038		ug/L	P408990	
		Sucralose	0.093		ug/L	P408915	
		Benzovindiflupyr	0.0020	U	ug/L	P408990	
		Carbamazepine	9.6E-04	I	ug/L	P408990	
		Clothianidin	0.0042	I	ug/L	P408990	
		Dinotefuran	0.0030	I	ug/L	P408990	
		Diuron	0.0020	U	ug/L	P408990	
		Fenuron	0.016	U	ug/L	P408990	
		Fluridone	0.0010	I	ug/L	P408990	
		Imazapyr	0.24		ug/L	P408990	
		Hydrocodone	0.0020	U	ug/L	P408990	
		Ibuprofen	0.020	U	ug/L	P408990	
		Imidacloprid	0.011	J	ug/L	P408990	MS
		Linuron	0.0040	U	ug/L	P408990	
		Mandestrobin	0.0020	U	ug/L	P408990	
		MCPP	0.0052	I	ug/L	P408990	
		Naproxen	0.0080	U	ug/L	P408990	
		Primidone	0.0040	U	ug/L	P408990	
		Pyraclostrobin	0.0020	U	ug/L	P408990	
		Silvex	0.0040	U	ug/L	P408990	
		Thiamethoxam	0.019	J	ug/L	P408990	MS
		Tolfenpyrad	0.0020	U	ug/L	P408990	
		Triclopyr	0.0040	U	ug/L	P408990	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imazapyr could not be assessed due to a high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: North Canal @ US1 **Collection Date/Time: 01/24/2022 09:30**

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2301387	EPA 8321B	Aldicarb	0.020	U	ug/L	P409047	
		Aldicarb Sulfone	0.0020	U	ug/L	P409047	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409047	
		Carbaryl	0.0020	U	ug/L	P409047	
		Carbofuran	0.0020	U	ug/L	P409047	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409047	
		Methiocarb	0.0020	U	ug/L	P409047	
		Methomyl	0.0020	U	ug/L	P409047	
		Oxamyl	0.0020	U	ug/L	P409047	
		Propoxur	0.0020	U	ug/L	P409047	
2301388		2,4-D	0.022		ug/L	P408990	
		Acesulfame K	0.24	I	ug/L	P408915	
		2,4,5-T	0.0040	U	ug/L	P408990	
		AMPA	1.1		ug/L	P408915	
		Acetaminophen	0.0080	U	ug/L	P408990	
		Acetamiprid	0.0020	U	ug/L	P408990	
		Endothall	0.25	U	ug/L	P408915	
		Glufosinate	0.10	U	ug/L	P408915	
		Glyphosate	2.5		ug/L	P408915	
		Afidopyropen	0.0020	U	ug/L	P408990	
		Bentazon	0.063		ug/L	P408990	
		Sucralose	4.5		ug/L	P408915	
		Benzovindiflupyr	0.0020	U	ug/L	P408990	
		Carbamazepine	0.013		ug/L	P408990	
		Clothianidin	0.0056	I	ug/L	P408990	
		Dinotefuran	0.011		ug/L	P408990	
		Diuron	0.0085		ug/L	P408990	
		Fenuron	0.016	U	ug/L	P408990	
		Fluridone	0.0067		ug/L	P408990	
		Imazapyr	0.28		ug/L	P408990	
		Hydrocodone	0.0020	U	ug/L	P408990	
		Ibuprofen	0.020	U	ug/L	P408990	
		Imidacloprid	0.012		ug/L	P408990	MS
		Linuron	0.0040	U	ug/L	P408990	
		Mandestrobin	0.0020	U	ug/L	P408990	
		MCPP	0.0036	I	ug/L	P408990	
		Naproxen	0.0080	U	ug/L	P408990	
		Primidone	0.049		ug/L	P408990	
		Pyraclostrobin	0.0020	U	ug/L	P408990	
		Silvex	0.0040	U	ug/L	P408990	
		Thiamethoxam	0.047		ug/L	P408990	MS
		Tolfenpyrad	0.0020	U	ug/L	P408990	
		Triclopyr	0.0040	U	ug/L	P408990	
2301390	EPA 8270E	Aldrin	0.69	U	ng/L	P408985	RPD

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2301390	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P408985	MS, RPD
		Alpha-Chlordane	0.25	I	ng/L	P408985	MS, RPD
		PCB-1016	2.1	U	ng/L	P408985	
		Beta-BHC	0.11	U	ng/L	P408985	
		PCB-1221	2.1	U	ng/L	P408985	
		Beta-Cyfluthrin**	1.3	U	ng/L	P408985	RPD
		PCB-1232	2.1	U	ng/L	P408985	
		Bifenthrin**	0.53	U	ng/L	P408985	RPD
		PCB-1242	2.1	U	ng/L	P408985	
		PCB-1248	2.1	U	ng/L	P408985	
		Chlorothalonil	1.3	U	ng/L	P408985	RPD
		PCB-1254	2.1	U	ng/L	P408985	
		Cis-Nonachlor**	0.21	U	ng/L	P408985	
		PCB-1260	2.1	U	ng/L	P408985	
		Cypermethrin	1.6	U	ng/L	P408985	RPD
		Dacthal**	0.16	U	ng/L	P408985	MS, RPD
		DDD-p,p'	0.26	U	ng/L	P408985	RPD
		DDE-p,p'	0.21	U	ng/L	P408985	RPD
		DDT-p,p'	0.26	U	ng/L	P408985	MS, RPD
		Delta-BHC	0.42	U	ng/L	P408985	RPD
		Deltamethrin**	1.3	U	ng/L	P408985	
		Dichlobenil**	0.26	U	ng/L	P408985	RPD
		Dicofol	1.3	U	ng/L	P408985	RPD
		Dieldrin	0.42	U	ng/L	P408985	RPD
		Endosulfan I	0.42	U	ng/L	P408985	MS, RPD
		Endosulfan II	0.42	U	ng/L	P408985	RPD
		Endosulfan Sulfate	0.32	U	ng/L	P408985	
		Endrin	0.42	U	ng/L	P408985	
		Endrin Aldehyde	0.79	U	ng/L	P408985	
		Endrin Ketone	0.42	U	ng/L	P408985	RPD
		Esfenvalerate**	0.79	U	ng/L	P408985	
		Ethalfluralin**	0.16	U	ng/L	P408985	MS, RPD
		Fenpropathrin**	0.26	U	ng/L	P408985	RPD
		Gamma-BHC	0.13	U	ng/L	P408985	RPD
		Gamma-Chlordane	0.26	I	ng/L	P408985	MS, RPD
		Heptachlor	0.21	U	ng/L	P408985	MS, RPD
		Heptachlor Epoxide	0.26	U	ng/L	P408985	RPD
		Hexachlorobenzene	1.1	U	ng/L	P408985	MS, RPD
		Kepone**	5.3	U	ng/L	P408985	
		Lambda-Cyhalothrin**	0.79	U	ng/L	P408985	
		Methoprene**	0.79	U	ng/L	P408985	RPD
		Methoxychlor	0.32	U	ng/L	P408985	
		MGK-264**	0.21	U	ng/L	P408985	
		Mirex	0.74	U	ng/L	P408985	RPD
		Oxychlordane**	0.32	U	ng/L	P408985	RPD

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2301390	EPA 8270E	Permethrin	1.7	U	ng/L	P408985	RPD
		Phenothrin**	0.95	U	ng/L	P408985	RPD
		Piperonyl Butoxide**	0.16	U	ng/L	P408985	
		Prallethrin**	2.1	U	ng/L	P408985	RPD
		Tau-Fluvalinate**	0.26	U	ng/L	P408985	RPD
		Tetramethrin**	0.79	U	ng/L	P408985	RPD
		Trans-Nonachlor**	0.21	U	ng/L	P408985	MS, RPD
		Triclosan Methyl**	0.16	U	ng/L	P408985	MS, RPD
		Trifluralin	0.21	U	ng/L	P408985	MS, RPD
	EPA 8276	Chlordane	2.6	U	ng/L	P408985	
		Toxaphene	16	U	ng/L	P408985	
2301391	EPA 8270E	Oxybenzone**	4.9	U	ng/L	P409108	
		Acetochlor	0.24	U	ng/L	P409108	
		Octinoxate**	17	I	ng/L	P409108	MS, RPD
		Alachlor	0.24	U	ng/L	P409108	
		Avobenzone**	77	I	ng/L	P409108	RPD
		Ametryn	0.59	U	ng/L	P409108	
		Atrazine	29		ng/L	P409108	
		Atrazine Desethyl	2.2	I	ng/L	P409108	
		Azinphos Methyl	2.0	U	ng/L	P409108	
		Azoxystrobin**	1.1	I	ng/L	P409108	
		Bromacil	19		ng/L	P409108	
		Butylate	0.39	U	ng/L	P409108	
		Caffeine**	7.3	U	ng/L	P409108	
		Carbophenothion	0.20	U	ng/L	P409108	
		Carfentrazone Ethyl**	0.098	U	ng/L	P409108	
		Chlorfenapyr**	0.17	U	ng/L	P409108	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P409108	
		Chlorpyrifos Methyl	0.049	U	ng/L	P409108	
		Coumaphos**	0.49	U	ng/L	P409108	
		Cyanazine	3.2	U	ng/L	P409108	
		Cyprodinil**	0.098	U	ng/L	P409108	
		Demeton	1.5	U	ng/L	P409108	
		Diazinon	0.12	U	ng/L	P409108	
		Difenoconazole**	0.59	U	ng/L	P409108	
		Dimethenamid**	0.098	U	ng/L	P409108	
		Dimethomorph**	1.0	I J	ng/L	P409108	
		Disulfoton	0.49	U	ng/L	P409108	
		Dithiopyr**	0.17	U	ng/L	P409108	
		EPTC	1.2	U	ng/L	P409108	
		Ethion	0.15	U	ng/L	P409108	
		Ethoprop	0.098	U	ng/L	P409108	
		Etridiazole**	0.15	U	ng/L	P409108	
		Fenamiphos	0.49	U	ng/L	P409108	
		Fenbuconazole**	0.32	I	ng/L	P409108	

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2301391	EPA 8270E	Fipronil	0.52	I	ng/L	P409108	
		Fipronil Desulfinyl**	0.31	I	ng/L	P409108	
		Fipronil Sulfide	0.25	I	ng/L	P409108	
		Fipronil Sulfone	0.43	I	ng/L	P409108	
		Fluazifop-P-butyl**	0.098	U	ng/L	P409108	
		Fludioxonil**	0.14	I	ng/L	P409108	
		Flumioxazin**	9.6		ng/L	P409108	
		Flutolanil**	0.63		ng/L	P409108	
		Fluxapyroxad**	0.098	U	ng/L	P409108	
		Fonofos	0.20	U	ng/L	P409108	
		Hexazinone	0.85	I	ng/L	P409108	
		Imazalil**	0.73	U	ng/L	P409108	
		Iprodione**	0.59	U	ng/L	P409108	
		Loratadine**	0.098	U	ng/L	P409108	
		Malathion	0.34	U	ng/L	P409108	
		Metalaxyl	0.98	I	ng/L	P409108	
		Metolachlor	16		ng/L	P409108	
		Metribuzin	2.4	U	ng/L	P409108	
		Mevinphos	1.0	U	ng/L	P409108	
		Molinate	0.29	U	ng/L	P409108	
		Myclobutanil**	0.24	U	ng/L	P409108	
		Naled**	1.5	UJ	ng/L	P409108	LCS, MS
		Napropamide**	0.39	U	ng/L	P409108	
		Norflurazon	25		ng/L	P409108	
		Oxadiazon	2.4		ng/L	P409108	
		Oxyfluorfen**	0.15	U	ng/L	P409108	
		Parathion Ethyl	0.24	U	ng/L	P409108	
		Parathion Methyl	0.54	U	ng/L	P409108	
		Pendimethalin	0.98	U	ng/L	P409108	
		Phenytoin**	10	I	ng/L	P409108	
		Phorate	0.51	U	ng/L	P409108	
		Prodiamine**	0.17	U	ng/L	P409108	
		Prometon	0.88	U	ng/L	P409108	RPD
		Prometryn	0.20	U	ng/L	P409108	
		Pronamide**	0.15	U	ng/L	P409108	
		Propanil**	0.12	U	ng/L	P409108	
		Propargite**	1.5	U	ng/L	P409108	
		Propiconazole**	0.60	I	ng/L	P409108	
		Pyraflufen Ethyl**	0.24	U	ng/L	P409108	
		Pyridaben**	1.0	I	ng/L	P409108	
		Pyriproxyfen**	0.12	U	ng/L	P409108	
		Simazine	0.49	U	ng/L	P409108	
		Stirophos**	0.12	U	ng/L	P409108	
		Sulfentrazone**	73		ng/L	P409108	
		Tebuconazole**	1.1	I	ng/L	P409108	

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2301391	EPA 8270E	Terbufos	0.098	U	ng/L	P409108	
		Terbuthylazine	0.42	U	ng/L	P409108	
		Thiobencarb**	0.59	U	ng/L	P409108	
		Triadimefon**	0.24	U	ng/L	P409108	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imazapyr could not be assessed due to a high concentration of parameter in the spiked sample.
EPA 8270E: MS accuracy for Flutolanil not assessed due to high content of this parameter in the sample spiked. Estimated value for Dimethomorph due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P408985

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	1.2	U	ng/L
Chlorothalonil	1.2	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: P408985

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	0.70	U	ng/L
Mirex	0.70	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: P408985

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: P409108

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P409108

Component	Result	Code	Units
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	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P409108

Component	Result	Code	Units
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P409108

Component	Result	Code	Units
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276
Batch ID: P408985

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P408915

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: P408990

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P408990

Component	Result	Code	Units
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	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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: P409047

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: P408985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	66.0		P	10 - 93.0
Alpha-BHC	96.5		P	75 - 106
Alpha-Chlordane	90.4		P	50 - 109
Beta-BHC	109		P	65 - 135
Beta-Cyfluthrin	112		P	23 - 167
Bifenthrin	92.6		P	11 - 123
Chlorothalonil	113		P	26 - 182
Cis-Nonachlor	90.6		P	40 - 111
Cypermethrin	86.7		P	25 - 155
Dacthal	95.8		P	73 - 112
DDD-p,p'	90.3		P	47 - 108
DDE-p,p'	89.0		P	48 - 107
DDT-p,p'	88.4		P	49 - 111
Delta-BHC	112		P	68 - 143
Deltamethrin	132		P	16 - 176
Dichlobenil	85.9		P	32 - 113
Dicofol	83.4		P	50 - 108
Dieldrin	91.3		P	56 - 110
Endosulfan I	90.6		P	60 - 105
Endosulfan II	88.1		P	50 - 120
Endosulfan Sulfate	91.6		P	55 - 121
Endrin	89.2		P	35 - 117
Endrin Aldehyde	91.3		P	36 - 116
Endrin Ketone	101		P	56 - 130
Esfenvalerate	109		P	10 - 179
Ethalfluralin	87.6		P	49 - 99.0
Fenpropathrin	101		P	35 - 119
Gamma-BHC	87.0		P	72 - 115
Gamma-Chlordane	85.9		P	45 - 107
Heptachlor	80.1		P	41 - 100
Heptachlor Epoxide	90.7		P	58 - 106
Hexachlorobenzene	86.5		P	39 - 100
Kepone	156		P	10 - 191
Lambda-Cyhalothrin	111		P	10 - 186
Methoprene	76.6		P	10 - 129
Methoxychlor	103		P	61 - 111
MGK-264	86.9		P	20 - 123
Mirex	74.4		P	10 - 182
Oxychlordane	87.6		P	39 - 110
PCB-1016	77.6		P	49 - 111
PCB-1260	89.2		P	42 - 116
Permethrin	112		P	26 - 152
Phenothrin	87.5		P	10 - 109
Piperonyl Butoxide	103		P	27 - 142
Prallethrin	71.1		P	14 - 109
Tau-Fluvalinate	101		P	16 - 134
Tetramethrin	80.3		P	10 - 125
Trans-Nonachlor	85.2		P	45 - 107
Triclosan Methyl	92.0		P	60 - 110
Trifluralin	85.4		P	49 - 98.0

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P409108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	114		P	70 - 121
Alachlor	103		P	68 - 119
Ametryn	112		P	64 - 139
Atrazine	106		P	76 - 120
Atrazine Desethyl	86.6		P	44 - 126
Avobenzone	140		P	50 - 200
Azinphos Methyl	72.2		P	43 - 192
Azoxystrobin	109		P	36 - 224
Bromacil	109		P	52 - 121
Butylate	66.8		P	28 - 91.0
Caffeine	85.8		P	50 - 134
Carbophenothion	111		P	56 - 129
Carfentrazone Ethyl	125		P	60 - 141
Chlorfenapyr	103		P	56 - 115
Chlorpyrifos Ethyl	113		P	60 - 118
Chlorpyrifos Methyl	110		P	68 - 119
Coumaphos	171		P	18 - 250
Cyanazine	133		P	61 - 250
Cyprodinil	140		P	55 - 145
Demeton	96.8		P	30 - 159
Diazinon	106		P	70 - 123
Difenoconazole	108		P	49 - 204
Dimethenamid	91.0		P	64 - 115
Dimethomorph	111		P	12 - 219
Disulfoton	89.0		P	44 - 125
Dithiopyr	104		P	64 - 115
EPTC	61.1		P	28 - 86.0
Ethion	103		P	33 - 125
Ethoprop	85.4		P	64 - 116
Etridiazole	69.1		P	34 - 91.0
Fenamiphos	126		P	12 - 127
Fenbuconazole	145		P	59 - 151
Fipronil	110		P	67 - 129
Fipronil Desulfinyl	111		P	65 - 127
Fipronil Sulfide	95.7		P	61 - 116
Fipronil Sulfone	105		P	55 - 117
Fluazifop-P-butyl	97.3		P	62 - 127
Fludioxonil	111		P	62 - 128
Flumioxazin	248		P	33 - 250
Flutolanil	104		P	56 - 127
Fluxapyroxad	127		P	45 - 128
Fonofos	85.7		P	62 - 111
Hexazinone	114		P	46 - 139
Imazalil	88.8		P	38 - 142
Iprodione	70.6		P	47 - 135
Loratadine	87.4		P	10 - 244
Malathion	128		P	61 - 139
Metalaxyl	99.7		P	10 - 119
Metolachlor	111		P	65 - 118
Metribuzin	111		P	51 - 250
Mevinphos	89.0		P	53 - 121
Molinate	76.1		P	42 - 96.0

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P409108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Myclobutanil	109		P	55 - 128
Naled	119		F	10 - 98.0
Napropamide	103		P	49 - 121
Norflurazon	119		P	61 - 126
Octinoxate	101		P	50 - 150
Oxadiazon	92.9		P	59 - 116
Oxybenzone	94.3		P	50 - 150
Oxyfluorfen	117		P	64 - 137
Parathion Ethyl	106		P	70 - 112
Parathion Methyl	120		P	76 - 133
Pendimethalin	79.5		P	52 - 117
Phenytoin	113		P	10 - 199
Phorate	98.5		P	48 - 121
Prodiamine	98.2		P	26 - 142
Prometon	105		P	43 - 123
Prometryn	94.7		P	66 - 127
Pronamide	121		P	75 - 121
Propanil	118		P	45 - 150
Propargite	163		P	42 - 208
Propiconazole	99.8		P	60 - 125
Pyraflufen Ethyl	124		P	70 - 138
Pyridaben	159		P	35 - 245
Pyriproxyfen	61.7		P	30 - 149
Simazine	123		P	72 - 125
Stirophos	84.7		P	29 - 164
Sulfentrazone	136		P	21 - 139
Tebuconazole	78.7		P	10 - 115
Terbufos	102		P	60 - 123
Terbuthylazine	101		P	72 - 115
Thiobencarb	112		P	31 - 139
Triadimefon	98.3		P	65 - 116

Reference Method: EPA 8276
Batch ID: P408985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	81.7		P	61 - 118
Toxaphene	76.4		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P408915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	88.1		P	40 - 150
AMPA	95.1		P	40 - 150
Endothall	106		P	40 - 150
Glufosinate	95.1		P	40 - 150
Glyphosate	93.4		P	40 - 150
Sucralose	106		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P408990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	81.9		P	30 - 160
2,4,5-T	74.3		P	30 - 160
Acetaminophen	68.0		P	30 - 160
Acetamiprid	98.0		P	30 - 160
Afidopyropen	78.4		P	30 - 160
Bentazon	86.8		P	30 - 160
Benzovindiflupyr	92.5		P	30 - 160
Carbamazepine	93.9		P	30 - 160
Clothianidin	106		P	30 - 160
Dinotefuran	102		P	30 - 160
Diuron	97.4		P	30 - 160
Fenuron	103		P	30 - 160
Fluridone	108		P	30 - 160
Hydrocodone	92.6		P	30 - 160
Ibuprofen	81.6		P	30 - 160
Imazapyr	104		P	30 - 160
Imidacloprid	92.8		P	30 - 160
Linuron	81.2		P	30 - 160
Mandestrobin	103		P	30 - 160
MCPP	111		P	30 - 160
Naproxen	94.5		P	30 - 160
Primidone	90.5		P	30 - 160
Pyraclostrobin	97.3		P	30 - 160
Silvex	60.0		P	30 - 160
Thiamethoxam	92.9		P	30 - 160
Tolfenpyrad	61.1		P	30 - 160
Triclopyr	76.1		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P409047

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.7		P	30 - 160
Aldicarb	45.1		P	30 - 160
Aldicarb Sulfone	93.7		P	30 - 160
Aldicarb Sulfoxide	90.8		P	30 - 160
Carbaryl	81.3		P	30 - 160
Carbofuran	86.3		P	30 - 160
Methiocarb	70.4		P	30 - 160
Methomyl	88.6		P	30 - 160
Oxamyl	95.6		P	30 - 160
Propoxur	78.6		P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P408985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301521	Aldrin	23.6	40.1	P/P	10 - 89.0
2301521	Alpha-BHC	60.7	81.9	F/P	71 - 105
2301521	Alpha-Chlordane	37.7	56.7	F/P	43 - 107
2301521	Beta-BHC	70.0	95.6	P/P	57 - 152
2301521	Beta-Cyfluthrin	48.5	75.1	P/P	29 - 186
2301521	Bifenthrin	36.7	62.5	P/P	19 - 119
2301521	Chlorothalonil	91.9	169	P/P	10 - 245
2301521	Cis-Nonachlor	44.2	54.7	P/P	36 - 110
2301521	Cypermethrin	47.1	70.5	P/P	24 - 169
2301521	Dacthal	53.6	73.7	F/P	62 - 115
2301521	DDD-p,p'	36.3	54.1	P/P	36 - 109
2301521	DDE-p,p'	32.7	48.2	P/P	30 - 114
2301521	DDT-p,p'	40.2	60.6	F/P	42 - 108
2301521	Delta-BHC	77.8	113	P/P	60 - 164
2301521	Deltamethrin	60.7	87.2	P/P	10 - 210
2301521	Dichlobenil	34.8	52.9	P/P	23 - 108
2301521	Dicofol	45.9	64.1	P/P	44 - 109
2301521	Dieldrin	40.2	58.7	P/P	37 - 119
2301521	Endosulfan I	43.1	62.4	F/P	52 - 105
2301521	Endosulfan II	38.8	54.6	P/P	35 - 127
2301521	Endosulfan Sulfate	52.6	69.3	P/P	39 - 130
2301521	Endrin	38.0	56.4	P/P	30 - 116
2301521	Endrin Aldehyde	32.2	50.5	P/P	20 - 110
2301521	Endrin Ketone	52.9	75.7	P/P	48 - 134
2301521	Esfenvalerate	53.3	77.5	P/P	10 - 199
2301521	Ethalfluralin	38.3	57.3	F/P	48 - 95.0
2301521	Fenpropathrin	39.6	54.6	P/P	37 - 121
2301521	Gamma-BHC	72.7	96.3	P/P	61 - 126
2301521	Gamma-Chlordane	36.8	55.4	F/P	39 - 105
2301521	Heptachlor	31.3	50.7	F/P	38 - 96.0
2301521	Heptachlor Epoxide	46.1	64.1	P/P	42 - 114
2301521	Hexachlorobenzene	33.2	54.5	F/P	39 - 93.0
2301521	Kepone	81.8	103	P/P	10 - 215
2301521	Lambda-Cyhalothrin	53.5	90.1	P/P	10 - 204
2301521	Methoprene	29.0	51.3	P/P	17 - 108
2301521	Methoxychlor	58.6	78.4	P/P	56 - 115
2301521	MGK-264	48.4	69.3	P/P	35 - 120
2301521	Mirex	25.8	41.0	P/P	10 - 178
2301521	Oxychlordane	52.4	86.7	P/P	47 - 91.0
2301521	Permethrin	53.0	79.0	P/P	27 - 170
2301521	Phenothrin	38.7	68.7	P/P	10 - 133
2301521	Piperonyl Butoxide	57.4	87.3	P/P	23 - 150
2301521	Prallethrin	36.8	60.2	P/P	21 - 113
2301521	Tau-Fluvalinate	41.1	69.0	P/P	16 - 158
2301521	Tetramethrin	42.1	70.6	P/P	22 - 132
2301521	Trans-Nonachlor	37.0	54.6	F/P	43 - 102
2301521	Triclosan Methyl	37.8	51.5	F/P	49 - 109
2301521	Trifluralin	39.8	56.9	F/P	48 - 93.0
2302073	PCB-1016	58.2	57.0	P/P	46 - 110
2302073	PCB-1260	61.8	63.2	P/P	42 - 111

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P409108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301326	Acetochlor	106	107	P/P	65 - 124
2301326	Alachlor	96.4	98.2	P/P	61 - 121
2301326	Ametryn	152	138	P/P	52 - 216
2301326	Atrazine	102	99.3	P/P	68 - 133
2301326	Atrazine Desethyl	58.1	62.5	P/P	15 - 160
2301326	Avobenzone	160	82.7	P/P	50 - 200
2301326	Azinphos Methyl	72.1	78.8	P/P	40 - 292
2301326	Azoxystrobin	98.6	105	P/P	12 - 242
2301326	Bromacil	101	99.7	P/P	54 - 167
2301326	Butylate	39.5	47.7	P/P	14 - 94.0
2301326	Caffeine	115	126	P/P	10 - 226
2301326	Carbophenothion	101	106	P/P	49 - 122
2301326	Carfentrazone Ethyl	121	118	P/P	53 - 138
2301326	Chlorfenapyr	85.7	91.5	P/P	50 - 150
2301326	Chlorpyrifos Ethyl	105	109	P/P	52 - 122
2301326	Chlorpyrifos Methyl	106	109	P/P	66 - 117
2301326	Coumaphos	185	200	P/P	50 - 220
2301326	Cyanazine	120	128	P/P	43 - 245
2301326	Cyprodinil	121	128	P/P	50 - 150
2301326	Demeton	86.5	97.8	P/P	43 - 188
2301326	Diazinon	104	103	P/P	69 - 131
2301326	Difenoconazole	84.6	86.6	P/P	34 - 231
2301326	Dimethenamid	99.1	98.2	P/P	55 - 118
2301326	Dimethomorph	102	102	P/P	50 - 150
2301326	Disulfoton	93.8	104	P/P	38 - 141
2301326	Dithiopyr	101	96.5	P/P	42 - 116
2301326	EPTC	31.3	37.2	P/P	18 - 85.0
2301326	Ethion	93.8	85.9	P/P	10 - 131
2301326	Ethoprop	100	104	P/P	65 - 129
2301326	Etridiazole	52.0	56.1	P/P	50 - 150
2301326	Fenamiphos	89.1	80.6	P/P	31 - 137
2301326	Fenbuconazole	147	144	P/P	57 - 160
2301326	Fipronil	109	109	P/P	62 - 132
2301326	Fipronil Desulfinyl	106	101	P/P	57 - 131
2301326	Fipronil Sulfide	98.3	96.3	P/P	15 - 138
2301326	Fipronil Sulfone	101	100	P/P	21 - 134
2301326	Fluazifop-P-butyl	97.6	96.4	P/P	54 - 133
2301326	Fludioxonil	93.0	95.1	P/P	58 - 127
2301326	Flumioxazin	269	295	P/P	33 - 300
2301326	Fluxapyroxad	99.3	70.5	P/P	23 - 141
2301326	Fonofos	87.1	95.9	P/P	58 - 119
2301326	Hexazinone	106	106	P/P	68 - 172
2301326	Imazalil	104	89.3	P/P	48 - 283
2301326	Iprodione	61.7	60.6	P/P	38 - 140
2301326	Loratadine	75.7	76.6	P/P	50 - 150
2301326	Malathion	115	116	P/P	40 - 137
2301326	Metalaxyl	97.8	90.6	P/P	21 - 129
2301326	Metolachlor	102	98.6	P/P	55 - 122
2301326	Metribuzin	113	107	P/P	38 - 187
2301326	Mevinphos	99.9	108	P/P	54 - 134
2301326	Molinate	69.9	79.7	P/P	41 - 97.0
2301326	Myclobutanil	103	102	P/P	56 - 125

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P409108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301326	Naled	105	110	P/F	10 - 108
2301326	Napropamide	95.0	93.1	P/P	50 - 150
2301326	Norflurazon	122	116	P/P	32 - 122
2301326	Octinoxate	88.5	33.3	P/F	50 - 150
2301326	Oxadiazon	83.8	80.1	P/P	40 - 119
2301326	Oxybenzone	92.0	72.9	P/P	50 - 150
2301326	Oxyfluorfen	126	121	P/P	61 - 153
2301326	Parathion Ethyl	92.2	97.1	P/P	59 - 130
2301326	Parathion Methyl	109	118	P/P	65 - 155
2301326	Pendimethalin	86.2	87.3	P/P	49 - 138
2301326	Phenytoin	114	108	P/P	50 - 200
2301326	Phorate	116	107	P/P	54 - 161
2301326	Prodiamine	129	126	P/P	33 - 161
2301326	Prometon	104	72.1	P/P	48 - 140
2301326	Prometryn	93.8	85.0	P/P	55 - 134
2301326	Pronamide	116	110	P/P	66 - 137
2301326	Propanil	112	115	P/P	50 - 150
2301326	Propargite	151	144	P/P	50 - 200
2301326	Propiconazole	131	128	P/P	36 - 150
2301326	Pyraflufen Ethyl	132	118	P/P	50 - 150
2301326	Pyridaben	174	194	P/P	50 - 200
2301326	Pyriproxyfen	55.1	47.2	P/P	10 - 165
2301326	Simazine	105	111	P/P	57 - 145
2301326	Stirophos	98.3	98.9	P/P	50 - 150
2301326	Sulfentrazone	103	89.4	P/P	34 - 140
2301326	Tebuconazole	75.1	46.2	P/P	10 - 127
2301326	Terbufos	118	121	P/P	59 - 138
2301326	Terbuthylazine	99.0	94.1	P/P	68 - 119
2301326	Thiobencarb	102	105	P/P	50 - 150
2301326	Triadimefon	80.7	78.1	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P408985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302073	Chlordane	64.4	56.9	P/P	55 - 128
2302073	Toxaphene	83.5	69.7	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P408915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301274	Acesulfame K	86.4	91.4	P/P	40 - 150
2301274	AMPA	103	98.2	P/P	40 - 150
2301274	Endothall	130	129	P/P	40 - 150
2301274	Glufosinate	97.0	102	P/P	40 - 150
2301274	Glyphosate	92.5	91.4	P/P	40 - 150
2301274	Sucralose	77.1	84.4	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P408990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301386	2,4-D	118	135	P/P	30 - 160
2301386	2,4,5-T	80.1	103	P/P	30 - 160
2301386	Acetaminophen	103	104	P/P	30 - 160
2301386	Acetamiprid	109	128	P/P	30 - 160
2301386	Afidopyropen	70.9	83.7	P/P	30 - 160
2301386	Bentazon	38.0	66.4	P/P	30 - 160
2301386	Benzovindiflupyr	87.9	98.6	P/P	30 - 160
2301386	Carbamazepine	98.9	114	P/P	30 - 160
2301386	Clothianidin	132	158	P/P	30 - 160
2301386	Dinotefuran	123	136	P/P	30 - 160
2301386	Diuron	82.7	95.2	P/P	30 - 160
2301386	Fenuron	88.4	102	P/P	30 - 160
2301386	Fluridone	90.8	104	P/P	30 - 160
2301386	Hydrocodone	102	116	P/P	30 - 160
2301386	Ibuprofen	68.8	85.8	P/P	30 - 160
2301386	Imidacloprid	166	195	F/F	30 - 160
2301386	Linuron	67.3	75.3	P/P	30 - 160
2301386	Mandestrobin	90.5	106	P/P	30 - 160
2301386	MCPP	120	136	P/P	30 - 160
2301386	Naproxen	87.9	112	P/P	30 - 160
2301386	Primidone	105	114	P/P	30 - 160
2301386	Pyraclostrobin	86.1	104	P/P	30 - 160
2301386	Silvex	80.8	89.3	P/P	30 - 160
2301386	Thiamethoxam	150	175	P/F	30 - 160
2301386	Tolfenpyrad	54.0	62.5	P/P	30 - 160
2301386	Triclopyr	86.3	104	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P409047

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301321	3-Hydroxycarbofuran	106	86.7	P/P	30 - 160
2301321	Aldicarb	82.8	80.8	P/P	30 - 160
2301321	Aldicarb Sulfone	116	119	P/P	30 - 160
2301321	Aldicarb Sulfoxide	46.1	60.2	P/P	30 - 160
2301321	Carbaryl	73.7	76.8	P/P	30 - 160
2301321	Carbofuran	81.2	87.0	P/P	30 - 160
2301321	Methiocarb	68.6	72.8	P/P	30 - 160
2301321	Methomyl	86.6	90.7	P/P	30 - 160
2301321	Oxamyl	94.1	108	P/P	30 - 160
2301321	Propoxur	81.9	91.9	P/P	30 - 160

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P408985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301521	Aldrin	51.7	Spike	F	0 - 37
2301521	Alpha-BHC	29.7	Spike	F	0 - 16
2301521	Alpha-Chlordane	40.3	Spike	F	0 - 28
2301521	Beta-BHC	30.9	Spike	P	0 - 32
2301521	Beta-Cyfluthrin	43.1	Spike	F	0 - 41
2301521	Bifenthrin	51.9	Spike	F	0 - 36
2301521	Chlorothalonil	59.2	Spike	F	0 - 54
2301521	Cis-Nonachlor	21.2	Spike	P	0 - 33
2301521	Cypermethrin	39.7	Spike	F	0 - 38
2301521	Dacthal	31.5	Spike	F	0 - 23
2301521	DDD-p,p'	39.3	Spike	F	0 - 35
2301521	DDE-p,p'	38.3	Spike	F	0 - 27
2301521	DDT-p,p'	40.4	Spike	F	0 - 31
2301521	Delta-BHC	37.1	Spike	F	0 - 30
2301521	Deltamethrin	35.9	Spike	P	0 - 76
2301521	Dichlobenil	41.1	Spike	F	0 - 33
2301521	Dicofol	33.0	Spike	F	0 - 24
2301521	Dieldrin	37.2	Spike	F	0 - 35
2301521	Endosulfan I	36.4	Spike	F	0 - 25
2301521	Endosulfan II	33.8	Spike	F	0 - 31
2301521	Endosulfan Sulfate	27.4	Spike	P	0 - 38
2301521	Endrin	39.0	Spike	P	0 - 53
2301521	Endrin Aldehyde	44.4	Spike	P	0 - 81
2301521	Endrin Ketone	35.4	Spike	F	0 - 33
2301521	Esfenvalerate	36.9	Spike	P	0 - 46
2301521	Ethalfluralin	39.8	Spike	F	0 - 22
2301521	Fenpropathrin	31.8	Spike	F	0 - 29
2301521	Gamma-BHC	27.9	Spike	F	0 - 17
2301521	Gamma-Chlordane	40.3	Spike	F	0 - 28
2301521	Heptachlor	47.3	Spike	F	0 - 28
2301521	Heptachlor Epoxide	32.7	Spike	F	0 - 23
2301521	Hexachlorobenzene	48.7	Spike	F	0 - 22
2301521	Kepone	23.3	Spike	P	0 - 61
2301521	Lambda-Cyhalothrin	51.0	Spike	P	0 - 52
2301521	Methoprene	55.6	Spike	F	0 - 38
2301521	Methoxychlor	28.9	Spike	P	0 - 29
2301521	MGK-264	35.4	Spike	P	0 - 41
2301521	Mirex	45.7	Spike	F	0 - 39
2301521	Oxychlordane	49.3	Spike	F	0 - 33
2301521	Permethrin	39.4	Spike	F	0 - 39
2301521	Phenothrin	55.8	Spike	F	0 - 52
2301521	Piperonyl Butoxide	41.3	Spike	P	0 - 91
2301521	Prallethrin	48.2	Spike	F	0 - 34
2301521	Tau-Fluvalinate	50.7	Spike	F	0 - 41
2301521	Tetramethrin	50.7	Spike	F	0 - 43
2301521	Trans-Nonachlor	38.6	Spike	F	0 - 31
2301521	Triclosan Methyl	30.8	Spike	F	0 - 24
2301521	Trifluralin	35.4	Spike	F	0 - 23
2302073	PCB-1016	2.18	Spike	P	0 - 22
2302073	PCB-1260	2.18	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P409108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301326	Acetochlor	0.610	Spike	P	0 - 27
2301326	Alachlor	1.81	Spike	P	0 - 27
2301326	Ametryn	9.74	Spike	P	0 - 34
2301326	Atrazine	2.28	Spike	P	0 - 41
2301326	Atrazine Desethyl	7.37	Spike	P	0 - 38
2301326	Avobenzone	48.9	Spike	F	0 - 30
2301326	Azinphos Methyl	8.81	Spike	P	0 - 62
2301326	Azoxystrobin	4.63	Spike	P	0 - 32
2301326	Bromacil	0.941	Spike	P	0 - 30
2301326	Butylate	18.8	Spike	P	0 - 59
2301326	Caffeine	9.40	Spike	P	0 - 60
2301326	Carbophenothion	5.19	Spike	P	0 - 25
2301326	Carfentrazone Ethyl	1.99	Spike	P	0 - 26
2301326	Chlorfenapyr	6.61	Spike	P	0 - 30
2301326	Chlorpyrifos Ethyl	3.36	Spike	P	0 - 27
2301326	Chlorpyrifos Methyl	2.68	Spike	P	0 - 26
2301326	Coumaphos	7.69	Spike	P	0 - 30
2301326	Cyanazine	6.37	Spike	P	0 - 58
2301326	Cyprodinil	4.93	Spike	P	0 - 30
2301326	Demeton	12.3	Spike	P	0 - 25
2301326	Diazinon	1.30	Spike	P	0 - 29
2301326	Difenoconazole	2.37	Spike	P	0 - 25
2301326	Dimethenamid	0.933	Spike	P	0 - 30
2301326	Dimethomorph	0.377	Spike	P	0 - 30
2301326	Disulfoton	10.2	Spike	P	0 - 33
2301326	Dithiopyr	4.75	Spike	P	0 - 22
2301326	EPTC	17.4	Spike	P	0 - 38
2301326	Ethion	8.77	Spike	P	0 - 79
2301326	Ethoprop	3.96	Spike	P	0 - 23
2301326	Etridiazole	7.49	Spike	P	0 - 30
2301326	Fenamiphos	10.0	Spike	P	0 - 58
2301326	Fenbuconazole	1.92	Spike	P	0 - 37
2301326	Fipronil	0.0491	Spike	P	0 - 33
2301326	Fipronil Desulfinyl	5.02	Spike	P	0 - 26
2301326	Fipronil Sulfide	2.00	Spike	P	0 - 37
2301326	Fipronil Sulfone	0.798	Spike	P	0 - 50
2301326	Fluazifop-P-butyl	1.19	Spike	P	0 - 24
2301326	Fludioxonil	2.29	Spike	P	0 - 26
2301326	Flumioxazin	9.19	Spike	P	0 - 37
2301326	Flutolanil	1.33	Spike	P	0 - 26
2301326	Fluxapyroxad	22.8	Spike	P	0 - 34
2301326	Fonofos	9.70	Spike	P	0 - 27
2301326	Hexazinone	0.171	Spike	P	0 - 36
2301326	Imazalil	15.4	Spike	P	0 - 65
2301326	Iprodione	1.75	Spike	P	0 - 33
2301326	Loratadine	1.15	Spike	P	0 - 30
2301326	Malathion	0.886	Spike	P	0 - 44
2301326	Metalaxyl	7.66	Spike	P	0 - 38
2301326	Metolachlor	2.58	Spike	P	0 - 36
2301326	Metribuzin	5.90	Spike	P	0 - 63
2301326	Mevinphos	8.21	Spike	P	0 - 26

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P409108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301326	Molinate	13.1	Spike	P	0 - 40
2301326	Myclobutanil	1.01	Spike	P	0 - 21
2301326	Naled	4.89	Spike	P	0 - 26
2301326	Napropamide	1.98	Spike	P	0 - 30
2301326	Norflurazon	4.46	Spike	P	0 - 24
2301326	Octinoxate	59.0	Spike	F	0 - 30
2301326	Oxadiazon	4.62	Spike	P	0 - 27
2301326	Oxybenzone	23.1	Spike	P	0 - 30
2301326	Oxyfluorfen	4.15	Spike	P	0 - 24
2301326	Parathion Ethyl	5.16	Spike	P	0 - 28
2301326	Parathion Methyl	7.69	Spike	P	0 - 27
2301326	Pendimethalin	1.21	Spike	P	0 - 31
2301326	Phenytoin	5.16	Spike	P	0 - 30
2301326	Phorate	7.64	Spike	P	0 - 27
2301326	Prodiamine	2.78	Spike	P	0 - 52
2301326	Prometon	35.9	Spike	F	0 - 31
2301326	Prometryn	9.79	Spike	P	0 - 28
2301326	Pronamide	4.89	Spike	P	0 - 26
2301326	Propanil	2.58	Spike	P	0 - 30
2301326	Propargite	5.18	Spike	P	0 - 30
2301326	Propiconazole	2.40	Spike	P	0 - 31
2301326	Pyraflufen Ethyl	11.7	Spike	P	0 - 30
2301326	Pyridaben	11.3	Spike	P	0 - 30
2301326	Pyriproxyfen	14.5	Spike	P	0 - 50
2301326	Simazine	5.21	Spike	P	0 - 29
2301326	Stirophos	0.613	Spike	P	0 - 30
2301326	Sulfentrazone	14.5	Spike	P	0 - 33
2301326	Tebuconazole	33.5	Spike	P	0 - 44
2301326	Terbufos	2.59	Spike	P	0 - 29
2301326	Terbuthylazine	5.05	Spike	P	0 - 27
2301326	Thiobencarb	3.56	Spike	P	0 - 30
2301326	Triadimefon	3.26	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P408985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302073	Chlordane	12.3	Spike	P	0 - 25
2302073	Toxaphene	18.0	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P408915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301274	Acesulfame K	5.66	Spike	P	0 - 30
2301274	AMPA	4.68	Spike	P	0 - 30
2301274	Endothall	0.314	Spike	P	0 - 30
2301274	Glufosinate	4.76	Spike	P	0 - 30
2301274	Glyphosate	1.11	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P408915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301274	Sucralose	8.99	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P408990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301386	2,4-D	9.90	Spike	P	0 - 30
2301386	2,4,5-T	25.0	Spike	P	0 - 30
2301386	Acetaminophen	1.03	Spike	P	0 - 30
2301386	Acetamiprid	15.6	Spike	P	0 - 30
2301386	Afidopyropen	16.6	Spike	P	0 - 30
2301386	Bentazon	5.38	Spike	P	0 - 30
2301386	Benzovindiflupyr	11.5	Spike	P	0 - 30
2301386	Carbamazepine	13.8	Spike	P	0 - 30
2301386	Clothianidin	17.2	Spike	P	0 - 30
2301386	Dinotefuran	9.98	Spike	P	0 - 30
2301386	Diuron	14.0	Spike	P	0 - 30
2301386	Fenuron	14.1	Spike	P	0 - 30
2301386	Fluridone	13.3	Spike	P	0 - 30
2301386	Hydrocodone	12.3	Spike	P	0 - 30
2301386	Ibuprofen	21.9	Spike	P	0 - 30
2301386	Imazapyr	6.57	Spike	P	0 - 30
2301386	Imidacloprid	14.9	Spike	P	0 - 30
2301386	Linuron	11.3	Spike	P	0 - 30
2301386	Mandestrobin	15.4	Spike	P	0 - 30
2301386	MCPP	11.6	Spike	P	0 - 30
2301386	Naproxen	24.0	Spike	P	0 - 30
2301386	Primidone	9.10	Spike	P	0 - 30
2301386	Pyraclostrobin	18.9	Spike	P	0 - 30
2301386	Silvex	10.0	Spike	P	0 - 30
2301386	Thiamethoxam	13.5	Spike	P	0 - 30
2301386	Tolfenpyrad	14.5	Spike	P	0 - 30
2301386	Triclopyr	18.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409047

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301321	3-Hydroxycarbofuran	20.0	Spike	P	0 - 30
2301321	Aldicarb	2.42	Spike	P	0 - 30
2301321	Aldicarb Sulfone	2.04	Spike	P	0 - 30
2301321	Aldicarb Sulfoxide	26.5	Spike	P	0 - 30
2301321	Carbaryl	4.15	Spike	P	0 - 30
2301321	Carbofuran	6.98	Spike	P	0 - 30
2301321	Methiocarb	5.84	Spike	P	0 - 30
2301321	Methomyl	4.63	Spike	P	0 - 30
2301321	Oxamyl	13.4	Spike	P	0 - 30
2301321	Propoxur	11.5	Spike	P	0 - 30

Quality Assurance Report
Precision

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2301386
Field Sample ID: G5SE0069

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	118	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	118	P	30 - 160
EPA 8321B	Diuron-d6	75.2	P	30 - 160
EPA 8321B	Endothall-d6	89.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	59.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.8	P	30 - 160
EPA 8321B	Primidone-d5	106	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2301387
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	76.8	P	30 - 160

Lab Sample ID: 2301388
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	132	P	30 - 160
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	112	P	30 - 160
EPA 8321B	Diuron-d6	73.3	P	30 - 160
EPA 8321B	Endothall-d6	81.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	73.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	80.2	P	30 - 160
EPA 8321B	Primidone-d5	132	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	30 - 160

Lab Sample ID: 2301390
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	88.3	P	38 - 115
EPA 8270E	Decachlorobiphenyl	74.8	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	68.5	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	71.5	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	78.7	P	30 - 97.0
EPA 8276	PCNB	84.4	P	45 - 119

Lab Sample ID: 2301391
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	74.8	P	20 - 200
EPA 8270E	Simazine-d10	126	P	71 - 140
EPA 8270E	Terbufos-d10	114	P	62 - 131
EPA 8270E	Terphenyl-d14	83.5	P	55 - 108

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A110090
Included Lab Sample IDs: 2301386, 2301388

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	96.8	114	P/P	60 - 160
Endothall	79.1	83.8	P/P	60 - 160
Sucralose	95.3	111	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A110095
Included Lab Sample IDs: 2301386, 2301388

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	102	103	P/P	60 - 160
Glufosinate	97.8	95.5	P/P	60 - 160
Glyphosate	95.5	93.0	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A110135
Included Lab Sample IDs: 2301390

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.8		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	98.4		P	80 - 120
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	96.4		P	80 - 120
Bifenthrin	98.0		P	80 - 120
Chlorothalonil	102		P	80 - 120
Cis-Nonachlor	98.8		P	80 - 120
Cypermethrin	94.5		P	80 - 120
Dacthal	98.6		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	99.6		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	90.6		P	80 - 120
Dichlobenil	98.5		P	80 - 120
Dicofol	99.0		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	97.2		P	80 - 120
Endosulfan II	97.2		P	80 - 120
Endosulfan Sulfate	90.3		P	80 - 120
Endrin	98.8		P	80 - 120
Endrin Aldehyde	95.9		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	94.1		P	80 - 120
Ethalfluralin	102		P	80 - 120
Fenpropathrin	96.8		P	80 - 120
Gamma-BHC	107		P	80 - 120
Gamma-Chlordane	98.4		P	80 - 120
Heptachlor	97.8		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	83.1		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A110135
Included Lab Sample IDs: 2301390

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lambda-Cyhalothrin	95.4		P	80 - 120
Methoprene	95.5		P	80 - 120
Methoxychlor	103		P	80 - 120
MGK-264	93.2		P	80 - 120
Mirex	95.4		P	80 - 120
Oxychlordane	96.2		P	80 - 120
Permethrin	98.4		P	80 - 120
Phenothrin	96.4		P	80 - 120
Piperonyl Butoxide	85.4		P	80 - 120
Prallethrin	94.0		P	80 - 120
Tau-Fluvalinate	95.9		P	80 - 120
Tetramethrin	86.9		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	97.0		P	80 - 120
Trifluralin	98.3		P	80 - 120

Reference Method: EPA 8276
Run ID: A110147
Included Lab Sample IDs: 2301390

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.1		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: EPA 8321B
Run ID: A110148
Included Lab Sample IDs: 2301386, 2301388

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	84.4	94.9	P/P	50 - 150
2,4,5-T	80.1	96.8	P/P	50 - 150
3-Hydroxycarbofuran	103	107	P/P	60 - 150
Acetaminophen	106	101	P/P	60 - 160
Acetamiprid	105	98.4	P/P	50 - 150
Afidopyropen	96.5	101	P/P	50 - 150
Aldicarb	93.6	67.1	P/P	60 - 150
Aldicarb Sulfone	105	100	P/P	50 - 150
Aldicarb Sulfoxide	101	107	P/P	50 - 150
Bentazon	83.4	114	P/P	50 - 160
Benzovindiflupyr	109	101	P/P	50 - 160
Carbamazepine	106	104	P/P	60 - 150
Carbaryl	107	108	P/P	60 - 150
Carbofuran	106	104	P/P	50 - 150
Clothianidin	105	112	P/P	60 - 150
Dinotefuran	113	102	P/P	50 - 150
Diuron	105	114	P/P	60 - 160
Fenuron	114	109	P/P	60 - 150
Fluridone	101	100	P/P	60 - 160
Hydrocodone	106	103	P/P	60 - 150
Ibuprofen	86.6	86.8	P/P	50 - 160
Imazapyr	109	151	P/P	50 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A110148
Included Lab Sample IDs: 2301386, 2301388

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	98.7	94.5	P/P	60 - 150
Linuron	106	106	P/P	60 - 150
Mandestrobin	122	117	P/P	50 - 150
MCPP	93.7	96.9	P/P	50 - 150
Methiocarb	108	107	P/P	50 - 150
Methomyl	112	111	P/P	50 - 150
Naproxen	89.6	91.6	P/P	50 - 160
Oxamyl	103	99.7	P/P	50 - 150
Primidone	100	94.0	P/P	60 - 150
Propoxur	107	100	P/P	50 - 150
Pyraclostrobin	114	114	P/P	60 - 150
Silvex	81.8	79.9	P/P	50 - 150
Thiamethoxam	99.6	96.8	P/P	50 - 150
Tolfenpyrad	97.9	98.7	P/P	60 - 150
Triclopyr	99.3	113	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A110196
Included Lab Sample IDs: 2301390

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	109		P	80 - 120
PCB-1260	110		P	80 - 120

Reference Method: EPA 8270E
Run ID: A110253
Included Lab Sample IDs: 2301391

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	97.9		P	80 - 120
Atrazine	98.6		P	80 - 120
Atrazine Desethyl	111		P	80 - 120
Azinphos Methyl	108		P	80 - 120
Azoxystrobin	104		P	80 - 120
Bromacil	99.7		P	80 - 120
Butylate	107		P	80 - 120
Caffeine	90.6		P	80 - 120
Carbophenothion	81.1		P	80 - 120
Carfentrazone Ethyl	93.5		P	80 - 120
Chlorfenapyr	106		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	94.9		P	80 - 120
Cyanazine	107		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A110253
Included Lab Sample IDs: 2301391

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	100		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	102		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	99.6		P	80 - 120
Fenamiphos	100		P	80 - 120
Fenbuconazole	94.1		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	97.4		P	80 - 120
Fipronil Sulfide	105		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	90.7		P	80 - 120
Flumioxazin	98.7		P	80 - 120
Flutolanil	98.5		P	80 - 120
Fluxapyroxad	95.7		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	95.3		P	80 - 120
Iprodione	101		P	80 - 120
Loratadine	113		P	80 - 120
Malathion	88.5		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	105		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	106		P	80 - 120
Napropamide	103		P	80 - 120
Norflurazon	95.1		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	103		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	105		P	80 - 120
Phenytoin	96.6		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	106		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	98.6		P	80 - 120
Propargite	99.5		P	80 - 120
Propiconazole	97.4		P	80 - 120
Pyraflufen Ethyl	96.9		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	114		P	80 - 120
Simazine	104		P	80 - 120
Stirophos	89.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A110253
Included Lab Sample IDs: 2301391

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfentrazone	96.1		P	80 - 120
Tebuconazole	99.0		P	80 - 120
Terbufos	97.4		P	80 - 120
Terbuthylazine	103		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 8270E
Run ID: A110268
Included Lab Sample IDs: 2301391

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	91.1		P	80 - 120
Octinoxate	95.7		P	80 - 120
Oxybenzone	104		P	80 - 120

Reference Method: EPA 8270E
Run ID: A110298
Included Lab Sample IDs: 2301391

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethomorph	101		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	Acetochlor	114	106	107			0.610
	Alachlor	103	96.4	98.2			1.81
	Aldrin	66.0	23.6	40.1			51.7
	Alpha-BHC	96.5	60.7	81.9			29.7
	Alpha-Chlordane	90.4	37.7	56.7			40.3
	Ametryn	112	152	138			9.74
	Atrazine	106	102	99.3			2.28
	Atrazine Desethyl	86.6	58.1	62.5			7.37
	Avobenzone	140	160	82.7			48.9
	Azinphos Methyl	72.2	72.1	78.8			8.81
	Azoxystrobin	109	98.6	105			4.63
	Beta-BHC	109	70.0	95.6			30.9
	Beta-Cyfluthrin	112	48.5	75.1			43.1
	Bifenthrin	92.6	36.7	62.5			51.9
	Bromacil	109	101	99.7			0.941
	Butylate	66.8	39.5	47.7			18.8
	Caffeine	85.8	115	126			9.40
	Carbophenothion	111	101	106			5.19
	Carfentrazone Ethyl	125	121	118			1.99
	Chlorfenapyr	103	85.7	91.5			6.61
	Chlorothalonil	113	91.9	169			59.2
	Chlorpyrifos Ethyl	113	105	109			3.36
	Chlorpyrifos Methyl	110	106	109			2.68
	Cis-Nonachlor	90.6	44.2	54.7			21.2
	Coumaphos	171	185	200			7.69
	Cyanazine	133	120	128			6.37
	Cypermethrin	86.7	47.1	70.5			39.7
	Cyprodinil	140	121	128			4.93
	Dacthal	95.8	53.6	73.7			31.5
	DDD-p,p'	90.3	36.3	54.1			39.3
	DDE-p,p'	89.0	32.7	48.2			38.3
	DDT-p,p'	88.4	40.2	60.6			40.4
	Delta-BHC	112	77.8	113			37.1
	Deltamethrin	132	60.7	87.2			35.9
	Demeton	96.8	86.5	97.8			12.3
	Diazinon	106	104	103			1.30
	Dichlobenil	85.9	34.8	52.9			41.1
	Dicofol	83.4	45.9	64.1			33.0
	Dieldrin	91.3	40.2	58.7			37.2
	Difenoconazole	108	84.6	86.6			2.37
	Dimethenamid	91.0	99.1	98.2			0.933
	Dimethomorph	111	102	102			0.377
	Disulfoton	89.0	93.8	104			10.2
	Dithiopyr	104	101	96.5			4.75
	Endosulfan I	90.6	43.1	62.4			36.4
	Endosulfan II	88.1	38.8	54.6			33.8
	Endosulfan Sulfate	91.6	52.6	69.3			27.4
	Endrin	89.2	38.0	56.4			39.0
	Endrin Aldehyde	91.3	32.2	50.5			44.4
	Endrin Ketone	101	52.9	75.7			35.4
	EPTC	61.1	31.3	37.2			17.4
	Esfenvalerate	109	53.3	77.5			36.9
	Ethalfluralin	87.6	38.3	57.3			39.8
	Ethion	103	93.8	85.9			8.77

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Ethoprop	85.4	100	104			3.96
	Etridiazole	69.1	52.0	56.1			7.49
	Fenamiphos	126	89.1	80.6			10.0
	Fenbuconazole	145	147	144			1.92
	Fenpropathrin	101	39.6	54.6			31.8
	Fipronil	110	109	109			0.0491
	Fipronil Desulfinyl	111	106	101			5.02
	Fipronil Sulfide	95.7	98.3	96.3			2.00
	Fipronil Sulfone	105	101	100			0.798
	Fluazifop-P-butyl	97.3	97.6	96.4			1.19
	Fludioxonil	111	93.0	95.1			2.29
	Flumioxazin	248	269	295			9.19
	Flutolanil	104					1.33
	Fluxapyroxad	127	99.3	70.5			22.8
	Fonofos	85.7	87.1	95.9			9.70
	Gamma-BHC	87.0	72.7	96.3			27.9
	Gamma-Chlordane	85.9	36.8	55.4			40.3
	Heptachlor	80.1	31.3	50.7			47.3
	Heptachlor Epoxide	90.7	46.1	64.1			32.7
	Hexachlorobenzene	86.5	33.2	54.5			48.7
	Hexazinone	114	106	106			0.171
	Imazalil	88.8	104	89.3			15.4
	Iprodione	70.6	61.7	60.6			1.75
	Kepone	156	81.8	103			23.3
	Lambda-Cyhalothrin	111	53.5	90.1			51.0
	Loratadine	87.4	75.7	76.6			1.15
	Malathion	128	115	116			0.886
	Metalaxyl	99.7	97.8	90.6			7.66
	Methoprene	76.6	29.0	51.3			55.6
	Methoxychlor	103	58.6	78.4			28.9
	Metolachlor	111	102	98.6			2.58
	Metribuzin	111	113	107			5.90
	Mevinphos	89.0	99.9	108			8.21
	MGK-264	86.9	48.4	69.3			35.4
	Mirex	74.4	25.8	41.0			45.7
	Molinate	76.1	69.9	79.7			13.1
	Myclobutanil	109	103	102			1.01
	Naled	119	105	110			4.89
	Napropamide	103	95.0	93.1			1.98
	Norflurazon	119	122	116			4.46
	Octinoxate	101	88.5	33.3			59.0
	Oxadiazon	92.9	83.8	80.1			4.62
	Oxybenzone	94.3	92.0	72.9			23.1
	Oxychlordane	87.6	52.4	86.7			49.3
	Oxyfluorfen	117	126	121			4.15
	Parathion Ethyl	106	92.2	97.1			5.16
	Parathion Methyl	120	109	118			7.69
	PCB-1016	77.6	58.2	57.0			2.18
	PCB-1260	89.2	61.8	63.2			2.18
	Pendimethalin	79.5	86.2	87.3			1.21
	Permethrin	112	53.0	79.0			39.4
	Phenothrin	87.5	38.7	68.7			55.8
	Phenytoin	113	114	108			5.16
	Phorate	98.5	116	107			7.64

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Piperonyl Butoxide	103	57.4	87.3			41.3
	Prallethrin	71.1	36.8	60.2			48.2
	Prodiamine	98.2	129	126			2.78
	Prometon	105	104	72.1			35.9
	Prometryn	94.7	93.8	85.0			9.79
	Pronamide	121	116	110			4.89
	Propanil	118	112	115			2.58
	Propargite	163	151	144			5.18
	Propiconazole	99.8	131	128			2.40
	Pyraflufen Ethyl	124	132	118			11.7
	Pyridaben	159	174	194			11.3
	Pyriproxyfen	61.7	55.1	47.2			14.5
	Simazine	123	105	111			5.21
	Stirophos	84.7	98.3	98.9			0.613
	Sulfentrazone	136	103	89.4			14.5
	Tau-Fluvalinate	101	41.1	69.0			50.7
	Tebuconazole	78.7	75.1	46.2			33.5
	Terbufos	102	118	121			2.59
	Terbuthylazine	101	99.0	94.1			5.05
	Tetramethrin	80.3	42.1	70.6			50.7
	Thiobencarb	112	102	105			3.56
	Trans-Nonachlor	85.2	37.0	54.6			38.6
	Triadimefon	98.3	80.7	78.1			3.26
	Triclosan Methyl	92.0	37.8	51.5			30.8
	Trifluralin	85.4	39.8	56.9			35.4
EPA 8276	Chlordane	81.7	64.4	56.9			12.3
	Toxaphene	76.4	83.5	69.7			18.0
EPA 8321B	2,4-D	81.9	118	135			9.90
	2,4,5-T	74.3	80.1	103			25.0
	3-Hydroxycarbofuran	79.7	106	86.7			20.0
	Acesulfame K	88.1	86.4	91.4			5.66
	Acetaminophen	68.0	103	104			1.03
	Acetamiprid	98.0	109	128			15.6
	Afidopyropen	78.4	70.9	83.7			16.6
	Aldicarb	45.1	82.8	80.8			2.42
	Aldicarb Sulfone	93.7	116	119			2.04
	Aldicarb Sulfoxide	90.8	46.1	60.2			26.5
	AMPA	95.1	103	98.2			4.68
	Bentazon	86.8	38.0	66.4			5.38
	Benzovindiflupyr	92.5	87.9	98.6			11.5
	Carbamazepine	93.9	98.9	114			13.8
	Carbaryl	81.3	73.7	76.8			4.15
	Carbofuran	86.3	81.2	87.0			6.98
	Clothianidin	106	132	158			17.2
	Dinotefuran	102	123	136			9.98
	Diuron	97.4	82.7	95.2			14.0
	Endothall	106	130	129			0.314
	Fenuron	103	88.4	102			14.1
	Fluridone	108	90.8	104			13.3
	Glufosinate	95.1	97.0	102			4.76
	Glyphosate	93.4	92.5	91.4			1.11
	Hydrocodone	92.6	102	116			12.3
	Ibuprofen	81.6	68.8	85.8			21.9
	Imazapyr	104					6.57

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Imidacloprid	92.8	166	195			14.9
	Linuron	81.2	67.3	75.3			11.3
	Mandestrobin	103	90.5	106			15.4
	MCPP	111	120	136			11.6
	Methiocarb	70.4	68.6	72.8			5.84
	Methomyl	88.6	86.6	90.7			4.63
	Naproxen	94.5	87.9	112			24.0
	Oxamyl	95.6	94.1	108			13.4
	Primidone	90.5	105	114			9.10
	Propoxur	78.6	81.9	91.9			11.5
	Pyraclostrobin	97.3	86.1	104			18.9
	Silvex	60.0	80.8	89.3			10.0
	Sucralose	106	77.1	84.4			8.99
	Thiamethoxam	92.9	150	175			13.5
	Tolfenpyrad	61.1	54.0	62.5			14.5
	Triclopyr	76.1	86.3	104			18.4

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2301391
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2301390
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2301391
EPA 8270E	PCBs in water matrices by GC/MS/MS	2301390
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2301390
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2301387
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2301386, 2301388

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	01/25/2022	01/28/2022 08:00	Fe-Val Siddell	01/31/2022 19:13	Vandana T. Nagar	2301390
	01/25/2022	01/28/2022 08:00	Fe-Val Siddell	02/02/2022 22:30	Vandana T. Nagar	2301390
	01/25/2022	01/31/2022 08:00	Rasheda Ghaffari	02/02/2022 18:28	Michael Poppell	2301391
	01/25/2022	01/31/2022 08:00	Rasheda Ghaffari	02/03/2022 22:24	Lipi Saha	2301391
	01/25/2022	01/31/2022 08:00	Rasheda Ghaffari	02/07/2022 16:03	Michael Poppell	2301391
EPA 8276	01/25/2022	01/28/2022 08:00	Fe-Val Siddell	02/01/2022 07:08	Arthur Maknenko	2301390
EPA 8321B	01/25/2022	01/26/2022 12:00	Manjita Shrestha	01/26/2022 12:38	Manjita Shrestha	2301386
	01/25/2022	01/26/2022 12:00	Manjita Shrestha	01/26/2022 12:48	Manjita Shrestha	2301388
	01/25/2022	01/26/2022 12:00	Manjita Shrestha	01/26/2022 16:29	Manjita Shrestha	2301386
	01/25/2022	01/26/2022 12:00	Manjita Shrestha	01/26/2022 16:44	Manjita Shrestha	2301388
	01/25/2022	01/27/2022 09:00	Hoor Shaik	01/30/2022 12:51	Juyoung Kim	2301386
	01/25/2022	01/27/2022 09:00	Hoor Shaik	01/30/2022 13:26	Juyoung Kim	2301388
	01/25/2022	01/28/2022 12:00	June Rhew	01/29/2022 06:49	Juyoung Kim	2301387