Chemical Analysis Report

SO-DIST-2024-01-22-01

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

Event Description: **2024 SMP: Venice**
Request ID: **RQ-2024-01-15-30**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
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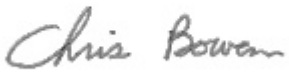
Certified by: Chris Bowen, Environmental Administrator

Date Certified: 15-FEB-2024 10:52



NON-CONFORMANCE REPORT INCLUDED

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals and 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: HATCHETT CREEK AT PINEBROOK RD **Collection Date/Time: 01/18/2024 10:00**

Field ID: G3SD0103 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462438	EPA 8321B	2,4-D	0.019	Y	ug/L	P440128	
		Acesulfame K	0.10	UY	ug/L	P440203	
		2,4,5-T	0.0040	UY	ug/L	P440128	
		AMPA	0.55	Y	ug/L	P440203	
		Acetaminophen	0.0080	UY	ug/L	P440128	
		Acetamiprid	0.0020	UY	ug/L	P440128	
		Endothall	0.25	UY	ug/L	P440203	
		Glufosinate	0.10	UY	ug/L	P440203	
		Glyphosate	1.1	Y	ug/L	P440203	
		Afidopyropen	0.0020	UY	ug/L	P440128	
		Bentazon	0.013	Y	ug/L	P440128	
		Sucralose	1.3	Y	ug/L	P440203	
		Benzovindiflupyr	0.0020	UY	ug/L	P440128	
		Carbamazepine	0.0012	IY	ug/L	P440128	
		Clothianidin	0.0034	IY	ug/L	P440128	
		Dinotefuran	0.0020	UY	ug/L	P440128	
		Diuron	0.32	Y	ug/L	P440128	
		Fenuron	0.032	UY	ug/L	P440128	
		Fluridone	0.020	Y	ug/L	P440128	
		Imazapyr	0.88	Y	ug/L	P440128	
		Hydrocodone	0.0020	UY	ug/L	P440128	
		Ibuprofen	0.080	UY	ug/L	P440128	
		Imidacloprid	0.026	Y	ug/L	P440128	
		Linuron	0.0040	UY	ug/L	P440128	
		Mandestrobin	0.0020	UY	ug/L	P440128	
		MCPP	0.0020	UY	ug/L	P440128	
		Naproxen	0.0080	UY	ug/L	P440128	
		Primidone	0.012	IY	ug/L	P440128	
		Pyraclostrobin	0.0020	UY	ug/L	P440128	
		Silvex	0.0040	UY	ug/L	P440128	
		Thiamethoxam	0.0020	UY	ug/L	P440128	
		Tolfenpyrad	0.0020	UY	ug/L	P440128	
		Triclopyr	0.0040	UY	ug/L	P440128	
2462443	EPA 8270E	Aldrin	0.67	UYJ	ng/L	P440272	LCS
		Alpha-BHC	0.10	UY	ng/L	P440272	
		Alpha-Chlordane	0.21	UY	ng/L	P440272	
		PCB-1016	2.1	UY	ng/L	P440272	
		Beta-BHC	0.10	UY	ng/L	P440272	
		PCB-1221	2.1	UY	ng/L	P440272	
		Beta-Cyfluthrin	1.3	UY	ng/L	P440272	
		PCB-1232	2.1	UY	ng/L	P440272	
		Bifenthrin	0.52	UY	ng/L	P440272	
		PCB-1242	2.1	UY	ng/L	P440272	
		Carbophenothion	0.93	UY	ng/L	P440272	

Field ID: G3SD0103 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462443	EPA 8270E	PCB-1248	2.1	UY	ng/L	P440272	
		Chlorothalonil	3.7	UY	ng/L	P440272	
		PCB-1254	2.1	UY	ng/L	P440272	
		Cis-Nonachlor	0.21	UY	ng/L	P440272	
		PCB-1260	2.1	UY	ng/L	P440272	
		Cypermethrin	1.5	UY	ng/L	P440272	
		Dacthal	0.15	UY	ng/L	P440272	
		DDD-p,p'	0.26	UY	ng/L	P440272	
		DDE-p,p'	0.21	UY	ng/L	P440272	
		DDT-p,p'	0.83	UY	ng/L	P440272	
		Delta-BHC	0.41	UY	ng/L	P440272	
		Deltamethrin	1.3	UY	ng/L	P440272	
		Dichlobenil	0.26	UY	ng/L	P440272	
		Dicofol	1.3	UY	ng/L	P440272	
		Dieldrin	0.41	UY	ng/L	P440272	
		Endosulfan I	0.41	UY	ng/L	P440272	MS
		Endosulfan II	0.93	UY	ng/L	P440272	
		Endosulfan Sulfate	0.31	UY	ng/L	P440272	
		Endrin	0.93	UY	ng/L	P440272	
		Endrin Aldehyde	0.77	UY	ng/L	P440272	
		Endrin Ketone	0.41	UY	ng/L	P440272	
		Esfenvalerate	0.77	UY	ng/L	P440272	
		Ethalfluralin	0.15	UYJ	ng/L	P440272	LCS
		Fenpropathrin	0.26	UY	ng/L	P440272	
		Gamma-BHC	0.13	UY	ng/L	P440272	
		Gamma-Chlordane	0.21	UY	ng/L	P440272	
		Heptachlor	0.21	UY	ng/L	P440272	MS
		Heptachlor Epoxide	0.26	UYJ	ng/L	P440272	LCS
		Hexachlorobenzene**	1.0	UY	ng/L	P440272	
		Kepone	14	UY	ng/L	P440272	
		Lambda-Cyhalothrin	0.77	UY	ng/L	P440272	
		Methoprene	0.77	UY	ng/L	P440272	
		Methoxychlor	0.31	UY	ng/L	P440272	
		MGK-264	0.21	UY	ng/L	P440272	
		Mirex	0.36	UY	ng/L	P440272	
		Oxychlordane	0.31	UY	ng/L	P440272	
		Permethrin	1.7	UY	ng/L	P440272	
		Phenothrin	0.93	UY	ng/L	P440272	
		Piperonyl Butoxide	0.27	IY	ng/L	P440272	
		Prallethrin	2.1	UY	ng/L	P440272	
		Tau-Fluvalinate	0.26	UY	ng/L	P440272	
		Tetramethrin	0.77	UY	ng/L	P440272	
		Trans-Nonachlor	0.21	UY	ng/L	P440272	
		Triclosan Methyl	0.15	UY	ng/L	P440272	MS
		Trifluralin	0.21	UY	ng/L	P440272	

Field ID: G3SD0103 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462443	EPA 8276	Chlordane	2.1	UY	ng/L	P440272	
		Toxaphene	15	UY	ng/L	P440272	

Ref. Method and Comment:
EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8270E: Y - Due to improper preservation; see NCR report. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Y - Due to improper preservation; see NCR report.

Sample Location: ALLIGATOR TIDAL AT US 41 **Collection Date/Time: 01/18/2024 10:20**

Field ID: G2SD0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462440	EPA 8321B	2,4-D	0.014	Y	ug/L	P440128	
		Acesulfame K	0.10	UY	ug/L	P440203	
		2,4,5-T	0.0040	UY	ug/L	P440128	
		AMPA	0.45	Y	ug/L	P440203	
		Acetaminophen	0.0080	UY	ug/L	P440128	
		Acetamiprid	0.0020	IY	ug/L	P440128	
		Endothall	0.25	UY	ug/L	P440203	
		Glufosinate	0.10	UY	ug/L	P440203	
		Glyphosate	0.95	Y	ug/L	P440203	
		Afidopyropen	0.0020	UY	ug/L	P440128	
		Bentazon	0.010	Y	ug/L	P440128	
		Sucralose	1.7	Y	ug/L	P440203	
		Benzovindiflupyr	0.0020	UY	ug/L	P440128	
		Carbamazepine	0.0030	IY	ug/L	P440128	
		Clothianidin	0.0027	IY	ug/L	P440128	
		Dinotefuran	0.0036	IY	ug/L	P440128	
		Diuron	0.012	Y	ug/L	P440128	
		Fenuron	0.032	UY	ug/L	P440128	
		Fluridone	0.016	Y	ug/L	P440128	
		Imazapyr	0.77	Y	ug/L	P440128	
		Hydrocodone	0.0020	UY	ug/L	P440128	
		Ibuprofen	0.080	UY	ug/L	P440128	
		Imidacloprid	0.011	Y	ug/L	P440128	
		Linuron	0.0040	UY	ug/L	P440128	
		Mandestrobin	0.0020	UY	ug/L	P440128	
		MCPP	0.0030	IY	ug/L	P440128	
		Naproxen	0.0080	UY	ug/L	P440128	
		Primidone	0.011	IY	ug/L	P440128	
		Pyraclostrobin	0.0020	UY	ug/L	P440128	
		Silvex	0.0040	UY	ug/L	P440128	
		Thiamethoxam	0.0020	UY	ug/L	P440128	
		Tolfenpyrad	0.0020	UY	ug/L	P440128	
		Triclopyr	0.0040	UY	ug/L	P440128	

Ref. Method and Comment:
EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report.

Sample Location: ALLIGATOR ATJACARANDA **Collection Date/Time: 01/18/2024 10:40**

Field ID: G2SD0026 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462439	EPA 8321B	2,4-D	0.011	Y	ug/L	P440128	
		Acesulfame K	0.10	UY	ug/L	P440203	
		2,4,5-T	0.0040	UY	ug/L	P440128	
		AMPA	0.46	Y	ug/L	P440203	
		Acetaminophen	0.0080	UY	ug/L	P440128	
		Acetamiprid	0.0020	Y	ug/L	P440128	
		Endothall	0.25	UY	ug/L	P440203	
		Glufosinate	0.10	UY	ug/L	P440203	
		Glyphosate	0.61	Y	ug/L	P440203	
		Afidopyropen	0.0020	UY	ug/L	P440128	
		Bentazon	0.0080	Y	ug/L	P440128	
		Sucralose	0.80	Y	ug/L	P440203	
		Benzovindiflupyr	0.0020	UY	ug/L	P440128	
		Carbamazepine	8.0E-04	UY	ug/L	P440128	
		Clothianidin	0.0020	IY	ug/L	P440128	
		Dinotefuran	0.0020	UY	ug/L	P440128	
		Diuron	0.0020	UY	ug/L	P440128	
		Fenuron	0.032	UY	ug/L	P440128	
		Fluridone	0.013	Y	ug/L	P440128	
		Imazapyr	0.62	Y	ug/L	P440128	
		Hydrocodone	0.0020	UY	ug/L	P440128	
		Ibuprofen	0.080	UY	ug/L	P440128	
		Imidacloprid	0.0097	Y	ug/L	P440128	
		Linuron	0.0040	UY	ug/L	P440128	
		Mandestrobin	0.0020	UY	ug/L	P440128	
		MCPP	0.0020	UY	ug/L	P440128	
		Naproxen	0.0080	UY	ug/L	P440128	
		Primidone	0.0054	IY	ug/L	P440128	
		Pyraclostrobin	0.0020	UY	ug/L	P440128	
		Silvex	0.0040	UY	ug/L	P440128	
		Thiamethoxam	0.0020	UY	ug/L	P440128	
		Tolfenpyrad	0.0020	UY	ug/L	P440128	
		Triclopyr	0.0040	UY	ug/L	P440128	
2462444	EPA 8270E	Aldrin	0.69	UYJ	ng/L	P440272	LCS
		Alpha-BHC	0.11	UY	ng/L	P440272	
		Alpha-Chlordane	0.21	UY	ng/L	P440272	
		PCB-1016	2.1	UY	ng/L	P440272	
		Beta-BHC	0.11	UY	ng/L	P440272	
		PCB-1221	2.1	UY	ng/L	P440272	
		Beta-Cyfluthrin	1.3	UY	ng/L	P440272	
		PCB-1232	2.1	UY	ng/L	P440272	
		Bifenthrin	0.53	UY	ng/L	P440272	
		PCB-1242	2.1	UY	ng/L	P440272	
		Carbophenothion	0.95	UY	ng/L	P440272	

Field ID: G2SD0026 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462444	EPA 8270E	PCB-1248	2.1	UY	ng/L	P440272	
		Chlorothalonil	3.8	UY	ng/L	P440272	
		PCB-1254	2.1	UY	ng/L	P440272	
		Cis-Nonachlor	0.21	UY	ng/L	P440272	
		PCB-1260	2.1	UY	ng/L	P440272	
		Cypermethrin	1.6	UY	ng/L	P440272	
		Dacthal	0.16	UY	ng/L	P440272	
		DDD-p,p'	0.26	UY	ng/L	P440272	
		DDE-p,p'	0.21	UY	ng/L	P440272	
		DDT-p,p'	0.85	UY	ng/L	P440272	
		Delta-BHC	0.42	UY	ng/L	P440272	
		Deltamethrin	1.3	UY	ng/L	P440272	
		Dichlobenil	0.26	UY	ng/L	P440272	
		Dicofol	1.3	UY	ng/L	P440272	
		Dieldrin	0.42	UY	ng/L	P440272	
		Endosulfan I	0.42	UY	ng/L	P440272	MS
		Endosulfan II	0.95	UY	ng/L	P440272	
		Endosulfan Sulfate	0.32	UY	ng/L	P440272	
		Endrin	0.95	UY	ng/L	P440272	
		Endrin Aldehyde	0.79	UY	ng/L	P440272	
		Endrin Ketone	0.42	UY	ng/L	P440272	
		Esfenvalerate	0.79	UY	ng/L	P440272	
		Ethalfluralin	0.16	UYJ	ng/L	P440272	LCS
		Fenpropathrin	0.26	UY	ng/L	P440272	
		Gamma-BHC	0.13	UY	ng/L	P440272	
		Gamma-Chlordane	0.21	UY	ng/L	P440272	
		Heptachlor	0.21	UY	ng/L	P440272	MS
		Heptachlor Epoxide	0.26	UYJ	ng/L	P440272	LCS
		Hexachlorobenzene**	1.1	UY	ng/L	P440272	
		Kepone	14	UY	ng/L	P440272	
		Lambda-Cyhalothrin	0.79	UY	ng/L	P440272	
		Methoprene	0.79	UY	ng/L	P440272	
		Methoxychlor	0.32	UY	ng/L	P440272	
		MGK-264	0.21	UY	ng/L	P440272	
		Mirex	0.37	UY	ng/L	P440272	
		Oxychlordane	0.32	UY	ng/L	P440272	
		Permethrin	1.7	UY	ng/L	P440272	
		Phenothrin	0.95	UY	ng/L	P440272	
		Piperonyl Butoxide	0.36	IY	ng/L	P440272	
		Prallethrin	2.1	UY	ng/L	P440272	
		Tau-Fluvalinate	0.26	UY	ng/L	P440272	
		Tetramethrin	0.79	UY	ng/L	P440272	
		Trans-Nonachlor	0.21	UY	ng/L	P440272	
		Triclosan Methyl	0.16	UY	ng/L	P440272	MS
		Trifluralin	0.21	UY	ng/L	P440272	

Field ID: G2SD0026 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462444	EPA 8276	Chlordane	2.1	UY	ng/L	P440272	
		Toxaphene	16	UY	ng/L	P440272	

Ref. Method and Comment:
EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8270E: Y - Due to improper preservation; see NCR report. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Y - Due to improper preservation; see NCR report.

Sample Location: CURRY CREEK (TIDAL) AT ALBEE FARM RD **Collection Date/Time: 01/18/2024 08:40**

Field ID: G3SD0066 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462436	EPA 8321B	Aldicarb	0.020	UY	ug/L	P440128	
		Aldicarb Sulfone	0.0020	UY	ug/L	P440128	
		Aldicarb Sulfoxide	0.0020	UY	ug/L	P440128	
		Carbaryl	0.0020	UY	ug/L	P440128	
		Carbofuran	0.0020	UY	ug/L	P440128	
		3-Hydroxycarbofuran	0.0020	UY	ug/L	P440128	
		Methiocarb	0.0020	UY	ug/L	P440128	
		Methomyl	0.0020	UY	ug/L	P440128	
		Oxamyl	0.0020	UY	ug/L	P440128	
		Propoxur	0.0020	UY	ug/L	P440128	
2462437		2,4-D	0.036	Y	ug/L	P440128	
		Acesulfame K	0.10	UY	ug/L	P440203	
		2,4,5-T	0.0040	UY	ug/L	P440128	
		AMPA	0.37	IY	ug/L	P440203	
		Acetaminophen	0.0080	UY	ug/L	P440128	
		Acetamiprid	0.0020	UY	ug/L	P440128	
		Endothall	0.25	UY	ug/L	P440203	
		Glufosinate	0.10	UY	ug/L	P440203	
		Glyphosate	0.80	Y	ug/L	P440203	
		Afidopyropen	0.0020	UY	ug/L	P440128	
		Bentazon	0.026	Y	ug/L	P440128	
		Sucralose	1.4	Y	ug/L	P440203	
		Benzovindiflupyr	0.0020	UY	ug/L	P440128	
		Carbamazepine	0.0022	IY	ug/L	P440128	
		Clothianidin	0.010	Y	ug/L	P440128	
		Dinotefuran	0.0035	IY	ug/L	P440128	
		Diuron	0.0048	IY	ug/L	P440128	
		Fenuron	0.032	UY	ug/L	P440128	
		Fluridone	0.014	Y	ug/L	P440128	
		Imazapyr	0.43	Y	ug/L	P440128	
		Hydrocodone	0.0020	UY	ug/L	P440128	
		Ibuprofen	0.080	UY	ug/L	P440128	
		Imidacloprid	0.029	Y	ug/L	P440128	
		Linuron	0.0040	UY	ug/L	P440128	
		Mandestrobin	0.0020	UY	ug/L	P440128	
		MCPP	0.0027	IY	ug/L	P440128	
		Naproxen	0.0080	UY	ug/L	P440128	
		Primidone	0.015	IY	ug/L	P440128	
		Pyraclostrobin	0.0020	UY	ug/L	P440128	
		Silvex	0.0040	UY	ug/L	P440128	
		Thiamethoxam	0.0020	UY	ug/L	P440128	
		Tolfenpyrad	0.0020	UY	ug/L	P440128	
		Triclopyr	0.0040	UY	ug/L	P440128	
2462441	EPA 8270E	Aldrin	0.67	UYJ	ng/L	P440272	LCS

Field ID: G3SD0066 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462441	EPA 8270E	Alpha-BHC	0.10	UY	ng/L	P440272	
		Alpha-Chlordane	0.21	UY	ng/L	P440272	
		PCB-1016	2.1	UY	ng/L	P440272	
		Beta-BHC	0.10	UY	ng/L	P440272	
		PCB-1221	2.1	UY	ng/L	P440272	
		Beta-Cyfluthrin	1.3	UY	ng/L	P440272	
		PCB-1232	2.1	UY	ng/L	P440272	
		Bifenthrin	0.52	UY	ng/L	P440272	
		PCB-1242	2.1	UY	ng/L	P440272	
		Carbophenothion	0.93	UY	ng/L	P440272	
		PCB-1248	2.1	UY	ng/L	P440272	
		Chlorothalonil	3.7	UY	ng/L	P440272	
		PCB-1254	2.1	UY	ng/L	P440272	
		Cis-Nonachlor	0.21	UY	ng/L	P440272	
		PCB-1260	2.1	UY	ng/L	P440272	
		Cypermethrin	1.5	UY	ng/L	P440272	
		Dacthal	0.15	UY	ng/L	P440272	
		DDD-p,p'	0.26	UY	ng/L	P440272	
		DDE-p,p'	0.21	UY	ng/L	P440272	
		DDT-p,p'	0.82	UY	ng/L	P440272	
		Delta-BHC	0.41	UY	ng/L	P440272	
		Deltamethrin	1.3	UY	ng/L	P440272	
		Dichlobenil	0.26	UY	ng/L	P440272	
		Dicofol	1.3	UY	ng/L	P440272	
		Dieldrin	0.41	UY	ng/L	P440272	
		Endosulfan I	0.41	UYJ	ng/L	P440272	MS
		Endosulfan II	0.93	UY	ng/L	P440272	
		Endosulfan Sulfate	0.31	UY	ng/L	P440272	
		Endrin	0.93	UY	ng/L	P440272	
		Endrin Aldehyde	0.77	UY	ng/L	P440272	
		Endrin Ketone	0.41	UY	ng/L	P440272	
		Esfenvalerate	0.77	UY	ng/L	P440272	
		Ethalfluralin	0.15	UYJ	ng/L	P440272	LCS
		Fenpropathrin	0.26	UY	ng/L	P440272	
		Gamma-BHC	0.13	UY	ng/L	P440272	
		Gamma-Chlordane	0.21	UY	ng/L	P440272	
		Heptachlor	0.21	UYJ	ng/L	P440272	MS
		Heptachlor Epoxide	0.26	UYJ	ng/L	P440272	LCS
		Hexachlorobenzene**	1.0	UY	ng/L	P440272	
		Kepone	14	UY	ng/L	P440272	
		Lambda-Cyhalothrin	0.77	UY	ng/L	P440272	
		Methoprene	0.77	UY	ng/L	P440272	
		Methoxychlor	0.31	UY	ng/L	P440272	
		MGK-264	0.21	UY	ng/L	P440272	
		Mirex	0.36	UY	ng/L	P440272	

Field ID: G3SD0066 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462441	EPA 8270E	Oxychlordane	0.31	UY	ng/L	P440272	
		Permethrin	1.6	UY	ng/L	P440272	
		Phenothrin	0.93	UY	ng/L	P440272	
		Piperonyl Butoxide	0.81	Y	ng/L	P440272	
		Prallethrin	2.1	UY	ng/L	P440272	
		Tau-Fluvalinate	0.26	UY	ng/L	P440272	
		Tetramethrin	0.77	UY	ng/L	P440272	
		Trans-Nonachlor	0.21	UY	ng/L	P440272	
		Triclosan Methyl	0.15	UYJ	ng/L	P440272	MS
		Trifluralin	0.21	UY	ng/L	P440272	
	EPA 8276	Chlordane	2.1	UY	ng/L	P440272	
		Toxaphene	15	UY	ng/L	P440272	
2462442	EPA 8270E	Oxybenzone**	10	UY	ng/L	P440184	RPD
		Acetochlor	0.21	UY	ng/L	P440184	RPD
		Octinoxate**	160	UY	ng/L	P440184	
		Alachlor	0.41	UY	ng/L	P440184	
		Avobenzone**	100	UY	ng/L	P440184	
		Ametryn	3.0	IY	ng/L	P440184	
		Atrazine	630	Y	ng/L	P440184	
		PBDE-47**	4.1	UY	ng/L	P440184	
		Atrazine Desethyl	76	Y	ng/L	P440184	
		PBDE-99**	5.2	UY	ng/L	P440184	
		Azinphos Methyl	3.1	UYJ	ng/L	P440184	CCV
		Tri-o-cresyl Phosphate**	6.2	UY	ng/L	P440184	
		Azoxystrobin	14	JY	ng/L	P440184	
		Bromacil	7.3	Y	ng/L	P440184	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UY	ng/L	P440184	
		Butylate	0.47	UY	ng/L	P440184	RPD
		Dechlorane Plus**	31	UY	ng/L	P440184	
		Caffeine**	15	IY	ng/L	P440184	
		Dechlorane 602**	5.2	UY	ng/L	P440184	
		Carbophenothion	0.52	UY	ng/L	P440184	
		Dechlorane 603**	4.1	UY	ng/L	P440184	
		Carfentrazone Ethyl	0.16	UY	ng/L	P440184	
		Hexabromobenzene**	6.2	UY	ng/L	P440184	
		Chlorfenapyr	0.31	UY	ng/L	P440184	
		PBB-153**	6.2	UY	ng/L	P440184	
		Chlorpyrifos Ethyl	0.31	UY	ng/L	P440184	
		Pentabromotoluene**	3.1	UY	ng/L	P440184	RPD
		Chlorpyrifos Methyl	0.10	UY	ng/L	P440184	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	UY	ng/L	P440184	RPD
		Coumaphos	1.1	UYJ	ng/L	P440184	CCV
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	UY	ng/L	P440184	RPD
		Cyanazine	5.2	UY	ng/L	P440184	

Field ID: G3SD0066 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462442	EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.8	IY	ng/L	P440184	RPD
		Cyprodinil	0.21	UY	ng/L	P440184	
		Tetradecachloro-m-terphenyl**	7.8	UY	ng/L	P440184	RPD
		Demeton	3.6	UY	ng/L	P440184	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	UY	ng/L	P440184	
		Diazinon	0.13	UY	ng/L	P440184	
		Difenoconazole	0.62	UY	ng/L	P440184	
		Dimethenamid	0.10	UY	ng/L	P440184	
		Dimethomorph	0.31	UYJ	ng/L	P440184	LCS, MS
		Disulfoton	0.62	UY	ng/L	P440184	
		Dithiopyr	4.9	IY	ng/L	P440184	
		EPTC	0.52	UY	ng/L	P440184	
		Ethion	0.31	UY	ng/L	P440184	
		Ethoprop	0.13	UY	ng/L	P440184	
		Etridiazole	0.10	UY	ng/L	P440184	
		Fenamiphos	0.47	UY	ng/L	P440184	
		Fenbuconazole	0.52	UY	ng/L	P440184	
		Fipronil	2.9	Y	ng/L	P440184	
		Fipronil Desulfinyl**	2.8	Y	ng/L	P440184	
		Fipronil Sulfide	0.86	Y	ng/L	P440184	
		Fipronil Sulfone	3.1	Y	ng/L	P440184	
		Fluazifop-P-butyl	0.10	UYJ	ng/L	P440184	CCV
		Fludioxonil	0.10	UY	ng/L	P440184	
		Flumioxazin	6.3	IY	ng/L	P440184	
		Flutolanil	0.10	UYJ	ng/L	P440184	LCS
		Fluxapyroxad	2.9	Y	ng/L	P440184	
		Fonofos	0.16	UY	ng/L	P440184	
		Hexazinone	0.52	UY	ng/L	P440184	
		Imazalil	0.67	UY	ng/L	P440184	
		Iprodione	0.52	UY	ng/L	P440184	
		Loratadine**	0.31	UYJ	ng/L	P440184	LCS
		Malathion	0.36	UY	ng/L	P440184	
		Metalaxyl	32	Y	ng/L	P440184	
		Metolachlor	3.2	IY	ng/L	P440184	
		Metribuzin	0.41	UY	ng/L	P440184	
		Mevinphos	1.0	UY	ng/L	P440184	
		Molinate	0.26	UY	ng/L	P440184	
		Myclobutanil	0.36	UY	ng/L	P440184	
		Naled	2.6	UY	ng/L	P440184	
		Napropamide	0.73	UY	ng/L	P440184	
		Norflurazon	1.0	UY	ng/L	P440184	
		Oxadiazon	6.4	Y	ng/L	P440184	
		Oxyfluorfen	0.21	UY	ng/L	P440184	
		Parathion Ethyl	0.16	UY	ng/L	P440184	RPD

Field ID: G3SD0066 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462442	EPA 8270E	Parathion Methyl	0.21	UY	ng/L	P440184	MS, RPD
		Pendimethalin	1.8	UY	ng/L	P440184	
		Phenytoin**	5.5	UY	ng/L	P440184	
		Phorate	0.26	UY	ng/L	P440184	
		Prodiamine	0.21	UY	ng/L	P440184	
		Prometon	3.1	UY	ng/L	P440184	
		Prometryn	0.36	UY	ng/L	P440184	
		Pronamide	0.26	IY	ng/L	P440184	
		Propanil	0.10	UY	ng/L	P440184	
		Propargite	0.83	UY	ng/L	P440184	
		Propiconazole	4.4	Y	ng/L	P440184	
		Pyraflufen Ethyl	0.31	UY	ng/L	P440184	
		Pyridaben	6.9	IY	ng/L	P440184	
		Pyriproxyfen	0.26	UY	ng/L	P440184	
		Simazine	71	Y	ng/L	P440184	
		Stirophos	0.41	UY	ng/L	P440184	
		Sulfentrazone	69	Y	ng/L	P440184	
		Tebuconazole	5.2	IY	ng/L	P440184	
		Terbufos	0.21	UY	ng/L	P440184	
		Terbuthylazine	0.21	UY	ng/L	P440184	
		Thiobencarb	0.52	UY	ng/L	P440184	
		Triadimefon	0.16	UY	ng/L	P440184	
2462445	EPA 200.7 Rev. 4.4	Calcium	115		mg/L	P440590	
		Iron	200	I	ug/L	P440590	
		Magnesium	62.8		mg/L	P440590	
		Potassium	16.8		mg/L	P440590	
		Sodium	346		mg/L	P440590	
		Strontium	1.83E+03		ug/L	P440590	
		Tin	9.0	U	ug/L	P440590	
		Titanium	2.4	I	ug/L	P440590	
		Vanadium	6.0	U	ug/L	P440590	
		Zinc	15	U	ug/L	P440590	
	EPA 200.8 Rev. 5.4	Aluminum	80		ug/L	P440590	
		Antimony	0.20	U	ug/L	P440590	
		Arsenic	1.70		ug/L	P440590	
		Barium	23.9		ug/L	P440590	
		Beryllium	0.040	U	ug/L	P440590	
		Boron	215		ug/L	P440590	
		Cadmium	0.080	U	ug/L	P440590	
		Chromium	4.0	U	ug/L	P440590	
		Cobalt	0.19	I	ug/L	P440590	
		Copper	1.9	I	ug/L	P440590	
		Lead	0.80	U	ug/L	P440590	
		Manganese	10.8		ug/L	P440590	
		Molybdenum	2.8	I	ug/L	P440590	

Field ID: G3SD0066 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462445	EPA 200.8 Rev. 5.4	Nickel	2.0	U	ug/L	P440590	
		Selenium	0.80	U	ug/L	P440590	
		Silver	0.040	U	ug/L	P440590	
		Thallium	0.40	U	ug/L	P440590	
	SM 2340 B-2011	Hardness	546		mg/L	P440590	

Ref. Method and Comment:
EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8270E: Y - Due to improper preservation; see NCR report. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Y - Due to improper preservation; see NCR report.
EPA 8270E: Y - Due to improper preservation; see NCR report. Refer to the Lab Analysis Report for an explanation of QC Codes. Estimation for azoxysrobin due to internal standard recovery exceeding control limits.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium and sodium are unavailable because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable because of high analyte concentration in the QC sample.

Non-Conformance Report

NCR ID: 10282

Event(s)	Job(s)	Sample(s)	Test(s)
SO-DIST-2024-01-22-01			

NCR Type: SHIPPING/RECEIVING **NCR Category: Samples arrived late**

Observation: Samples arrived late, samples received outside the acceptable temperature range.

Resolution: Samples will be qualified as appropriate.
Customer contacted, email correspondence attached to sample submittal forms.
Biology and Chemistry supervisors were notified by email.

Authorized by/Date: Joshua Ayres 1/26/2024

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

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440590

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440590

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 8270E
Batch ID: P440184

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P440184

Component	Result	Code	Units
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P440184

Component	Result	Code	Units
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8270E
Batch ID: P440272

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P440272

Component	Result	Code	Units
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P440272

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P440128

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P440128

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	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
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	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
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	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: P440203

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 200.7 Rev. 4.4
Batch ID: P440590

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	104		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	100		P	85 - 115
Sodium	98.8		P	85 - 115
Strontium	95.2		P	85 - 115
Tin	97.1		P	85 - 115
Titanium	99.8		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	98.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440590

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	100		P	85 - 115
Barium	101		P	85 - 115
Beryllium	93.9		P	85 - 115
Boron	109		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	103		P	85 - 115
Cobalt	99.1		P	85 - 115
Copper	96.9		P	85 - 115
Lead	95.6		P	85 - 115
Manganese	102		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	98.9		P	85 - 115
Selenium	99.6		P	85 - 115
Silver	92.4		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 8270E
Batch ID: P440184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	80.3		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102		P	37 - 154
Acetochlor	109		P	64 - 124
Alachlor	111		P	61 - 118
Ametryn	146		P	47 - 158
Atrazine	105		P	68 - 121
Atrazine Desethyl	112		P	30 - 119
Avobenzone	124		P	48 - 193
Azinphos Methyl	146		P	30 - 194
Azoxystrobin	150		P	58 - 154
Bromacil	122		P	47 - 126
Butylate	62.1		P	31 - 83.0
Caffeine	117		P	10 - 180
Carbophenothion	127		P	59 - 133
Carfentrazone Ethyl	141		P	59 - 147

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorfenapyr	100		P	52 - 118
Chlorpyrifos Ethyl	111		P	59 - 119
Chlorpyrifos Methyl	117		P	65 - 123
Coumaphos	172		P	11 - 223
Cyanazine	224		P	63 - 250
Cyprodinil	114		P	52 - 143
Dechlorane 602	64.9		P	23 - 142
Dechlorane 603	102		P	51 - 171
Dechlorane Plus	105		P	46 - 161
Demeton	87.0		P	42 - 119
Diazinon	120		P	67 - 132
Difenoconazole	170		P	12 - 204
Dimethenamid	95.5		P	53 - 113
Dimethomorph	298		F	13 - 238
Disulfoton	125		P	56 - 126
Dithiopyr	114		P	58 - 127
EPTC	52.3		P	31 - 78.0
Ethion	39.1		P	24 - 127
Ethoprop	109		P	60 - 118
Etridiazole	70.8		P	32 - 91.0
Fenamiphos	98.5		P	54 - 129
Fenbuconazole	119		P	31 - 162
Fipronil	129		P	56 - 131
Fipronil Desulfinyl	111		P	58 - 132
Fipronil Sulfide	106		P	51 - 123
Fipronil Sulfone	109		P	50 - 125
Fluazifop-P-butyl	117		P	52 - 132
Fludioxonil	106		P	52 - 129
Flumioxazin	201		P	34 - 250
Flutolanil	134		F	45 - 128
Fluxapyroxad	92.6		P	31 - 150
Fonofos	112		P	60 - 116
Hexabromobenzene	98.4		P	52 - 165
Hexazinone	106		P	59 - 120
Imazalil	129		P	39 - 134
Iprodione	175		P	39 - 243
Loratadine	270		F	10 - 240
Malathion	124		P	53 - 145
Metalaxyl	95.6		P	59 - 120
Metolachlor	101		P	64 - 122
Metribuzin	126		P	33 - 128
Mevinphos	97.0		P	48 - 119
Molinate	66.5		P	42 - 89.0
Myclobutanil	109		P	54 - 129
Naled	54.1		P	10 - 138
Napropamide	65.3		P	40 - 122
Norflurazon	113		P	49 - 132
Octinoxate	101		P	29 - 176
Oxadiazon	95.3		P	50 - 115
Oxybenzone	99.3		P	45 - 145
Oxyfluorfen	120		P	62 - 149
Parathion Ethyl	107		P	68 - 119

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Methyl	111		P	68 - 147
PBB-153	105		P	42 - 179
PBDE-47	85.8		P	44 - 141
PBDE-99	90.1		P	36 - 141
Pendimethalin	94.7		P	59 - 158
Pentabromotoluene	89.8		P	58 - 148
Phenytoin	33.8		P	10 - 151
Phorate	104		P	44 - 124
Prodiamine	42.7		P	10 - 136
Prometon	105		P	45 - 131
Prometryn	126		P	52 - 140
Pronamide	119		P	70 - 129
Propanil	124		P	54 - 144
Propargite	71.0		P	10 - 191
Propiconazole	87.0		P	49 - 128
Pyraflufen Ethyl	125		P	46 - 141
Pyridaben	164		P	29 - 198
Pyriproxyfen	93.7		P	33 - 221
Simazine	108		P	62 - 119
Stirophos	70.9		P	13 - 144
Sulfentrazone	118		P	12 - 152
Tebuconazole	51.2		P	10 - 135
Terbufos	115		P	67 - 136
Terbuthylazine	105		P	66 - 113
Tetradecachloro-m-terphenyl	147		P	30 - 235
Thiobencarb	111		P	51 - 125
Tri-o-cresyl Phosphate	88.6		P	50 - 150
Triadimefon	101		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	107		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	105		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	119		P	59 - 166

Reference Method: EPA 8270E
Batch ID: P440272

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	100		F	30 - 96.0
Alpha-BHC	99.1		P	70 - 109
Alpha-Chlordane	86.1		P	45 - 107
Beta-BHC	110		P	64 - 138
Beta-Cyfluthrin	118		P	17 - 141
Bifenthrin	113		P	10 - 113
Carbophenothion	73.4		P	24 - 91.0
Chlorothalonil	70.8		P	26 - 180
Cis-Nonachlor	87.3		P	37 - 102
Cypermethrin	79.2		P	20 - 133
Dacthal	87.5		P	69 - 114
DDD-p,p'	103		P	42 - 105
DDE-p,p'	89.3		P	42 - 106
DDT-p,p'	95.8		P	42 - 107
Delta-BHC	116		P	67 - 144
Deltamethrin	94.7		P	15 - 149

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440272

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dichlobenil	59.8		P	46 - 117
Dicofol	97.6		P	34 - 114
Dieldrin	94.7		P	50 - 108
Endosulfan I	82.6		P	55 - 104
Endosulfan II	84.1		P	51 - 111
Endosulfan Sulfate	115		P	56 - 121
Endrin	69.7		P	10 - 106
Endrin Aldehyde	51.3		P	34 - 114
Endrin Ketone	122		P	63 - 177
Esfenvalerate	112		P	29 - 143
Ethalfluralin	101		F	46 - 96.0
Fenpropathrin	85.3		P	28 - 115
Gamma-BHC	102		P	65 - 121
Gamma-Chlordane	103		P	39 - 103
Heptachlor	91.2		P	39 - 94.0
Heptachlor Epoxide	114		F	54 - 104
Hexachlorobenzene	99.4		P	36 - 100
Kepone	85.7		P	10 - 225
Lambda-Cyhalothrin	129		P	10 - 135
Methoprene	108		P	10 - 109
Methoxychlor	95.4		P	52 - 112
MGK-264	112		P	44 - 117
Mirex	74.9		P	20 - 90.0
Oxychlordane	98.1		P	44 - 102
PCB-1016	68.2		P	45 - 107
PCB-1260	77.1		P	40 - 118
Permethrin	121		P	18 - 135
Phenothrin	90.1		P	10 - 102
Piperonyl Butoxide	103		P	28 - 156
Prallethrin	96.3		P	28 - 113
Tau-Fluvalinate	118		P	10 - 123
Tetramethrin	136		P	18 - 158
Trans-Nonachlor	94.0		P	39 - 104
Triclosan Methyl	62.8		P	54 - 108
Trifluralin	90.8		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P440272

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	104		P	52 - 117
Toxaphene	123		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P440128

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.2		P	40 - 150
2,4,5-T	102		P	40 - 150
3-Hydroxycarbofuran	69.4		P	40 - 150
Acetaminophen	102		P	30 - 150
Acetamiprid	85.2		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P440128

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Afidopyropen	72.4		P	30 - 150
Aldicarb	56.3		P	30 - 150
Aldicarb Sulfone	93.2		P	40 - 150
Aldicarb Sulfoxide	59.7		P	40 - 150
Bentazon	69.2		P	30 - 150
Benzovindiflupyr	85.8		P	40 - 150
Carbamazepine	83.4		P	40 - 150
Carbaryl	78.2		P	40 - 150
Carbofuran	80.5		P	40 - 150
Clothianidin	101		P	40 - 150
Dinotefuran	109		P	40 - 150
Diuron	83.2		P	40 - 150
Fenuron	101		P	40 - 150
Fluridone	92.9		P	40 - 150
Hydrocodone	97.5		P	40 - 150
Ibuprofen	67.7		P	40 - 150
Imazapyr	97.2		P	40 - 150
Imidacloprid	94.3		P	40 - 150
Linuron	78.9		P	40 - 150
Mandestrobin	94.5		P	40 - 150
MCPP	92.8		P	40 - 150
Methiocarb	71.5		P	40 - 150
Methomyl	90.6		P	40 - 150
Naproxen	68.2		P	40 - 150
Oxamyl	93.2		P	40 - 150
Primidone	86.4		P	40 - 150
Propoxur	75.0		P	40 - 150
Pyraclostrobin	81.5		P	40 - 150
Silvex	86.2		P	40 - 150
Thiamethoxam	103		P	40 - 150
Tolfenpyrad	50.7		P	30 - 150
Triclopyr	108		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	101		P	40 - 160
Endothall	101		P	40 - 160
Glufosinate	99.5		P	40 - 160
Glyphosate	99.2		P	40 - 160
Sucralose	106		P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462445	Iron	105	104	P/P	70 - 130
2462445	Strontium	92.4	98.4	P/P	70 - 130
2462445	Tin	94.0	91.1	P/P	70 - 130
2462445	Titanium	101	98.9	P/P	70 - 130
2462445	Vanadium	108	105	P/P	70 - 130
2462445	Zinc	102	99.5	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462445	Aluminum	99.1	102	P/P	70 - 130
2462445	Antimony	103	104	P/P	70 - 130
2462445	Arsenic	107	107	P/P	70 - 130
2462445	Barium	99.4	101	P/P	70 - 130
2462445	Beryllium	102	101	P/P	70 - 130
2462445	Cadmium	103	105	P/P	70 - 130
2462445	Chromium	104	107	P/P	70 - 130
2462445	Cobalt	101	102	P/P	70 - 130
2462445	Copper	98.2	98.8	P/P	70 - 130
2462445	Lead	97.8	99.2	P/P	70 - 130
2462445	Manganese	99.4	101	P/P	70 - 130
2462445	Molybdenum	103	107	P/P	70 - 130
2462445	Nickel	101	102	P/P	70 - 130
2462445	Selenium	102	103	P/P	70 - 130
2462445	Silver	88.5	89.0	P/P	70 - 130
2462445	Thallium	104	107	P/P	70 - 130

Reference Method: EPA 8270E
Batch ID: P440184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462399	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	62.9	72.5	P/P	50 - 150
2462399	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.4	88.9	P/P	29 - 155
2462399	Acetochlor	73.2	99.0	P/P	60 - 124
2462399	Alachlor	76.8	88.2	P/P	54 - 122
2462399	Ametryn	101	131	P/P	51 - 208
2462399	Atrazine	71.0	84.6	P/P	57 - 131
2462399	Atrazine Desethyl	109	123	P/P	13 - 124
2462399	Avobenzone	84.7	117	P/P	35 - 187
2462399	Azinphos Methyl	101	112	P/P	43 - 276
2462399	Azoxystrobin	92.0	114	P/P	52 - 300
2462399	Bromacil	85.9	116	P/P	44 - 134
2462399	Butylate	32.7	55.4	P/P	23 - 82.0
2462399	Caffeine	121	141	P/P	10 - 277
2462399	Carbophenothion	95.6	107	P/P	47 - 135
2462399	Carfentrazone Ethyl	103	120	P/P	46 - 147
2462399	Chlorfenapyr	68.1	67.0	P/P	43 - 114
2462399	Chlorpyrifos Ethyl	74.2	88.6	P/P	47 - 124
2462399	Chlorpyrifos Methyl	78.8	96.3	P/P	60 - 135
2462399	Coumaphos	136	112	P/P	10 - 222
2462399	Cyanazine	161	192	P/P	10 - 257

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P440184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462399	Cyprodinil	78.6	102	P/P	42 - 148
2462399	Dechlorane 602	57.1	72.9	P/P	14 - 133
2462399	Dechlorane 603	72.5	96.5	P/P	18 - 191
2462399	Dechlorane Plus	74.6	92.1	P/P	23 - 154
2462399	Demeton	60.6	77.4	P/P	41 - 137
2462399	Diazinon	80.8	94.6	P/P	64 - 139
2462399	Difenoconazole	122	141	P/P	46 - 254
2462399	Dimethenamid	72.1	86.6	P/P	47 - 117
2462399	Dimethomorph	204	259	P/F	14 - 255
2462399	Disulfoton	83.3	109	P/P	52 - 130
2462399	Dithiopyr	82.4	99.3	P/P	40 - 121
2462399	EPTC	31.0	48.5	P/P	19 - 78.0
2462399	Ethion	47.2	55.7	P/P	12 - 124
2462399	Ethoprop	80.7	103	P/P	68 - 144
2462399	Etridiazole	44.4	64.7	P/P	26 - 96.0
2462399	Fenamiphos	75.3	105	P/P	41 - 129
2462399	Fenbuconazole	87.3	85.4	P/P	26 - 169
2462399	Fipronil	74.2	91.2	P/P	46 - 145
2462399	Fipronil Desulfinyl	91.4	103	P/P	47 - 136
2462399	Fipronil Sulfide	67.1	79.6	P/P	41 - 127
2462399	Fipronil Sulfone	89.6	92.0	P/P	35 - 133
2462399	Fluazifop-P-butyl	107	118	P/P	46 - 131
2462399	Fludioxonil	79.8	90.0	P/P	51 - 124
2462399	Flumioxazin	157	176	P/P	10 - 289
2462399	Flutolanil	91.0	105	P/P	34 - 130
2462399	Fluxapyroxad	81.9	91.6	P/P	10 - 197
2462399	Fonofos	73.5	77.6	P/P	42 - 131
2462399	Hexabromobenzene	74.2	95.4	P/P	47 - 178
2462399	Hexazinone	74.0	93.4	P/P	64 - 125
2462399	Imazalil	124	138	P/P	37 - 252
2462399	Iprodione	137	153	P/P	34 - 265
2462399	Loratadine	144	204	P/P	20 - 231
2462399	Malathion	88.2	101	P/P	34 - 164
2462399	Metalaxyl	67.6	90.7	P/P	49 - 125
2462399	Metolachlor	72.8	81.9	P/P	54 - 125
2462399	Metribuzin	82.7	104	P/P	51 - 139
2462399	Mevinphos	73.4	90.9	P/P	46 - 130
2462399	Molinate	43.2	56.7	P/P	39 - 93.0
2462399	Myclobutanil	83.3	98.0	P/P	50 - 130
2462399	Naled	37.9	53.8	P/P	10 - 150
2462399	Napropamide	74.2	76.9	P/P	10 - 109
2462399	Norflurazon	89.3	71.0	P/P	36 - 134
2462399	Octinoxate	73.8	102	P/P	18 - 170
2462399	Oxadiazon	64.1	73.4	P/P	43 - 112
2462399	Oxybenzone	79.2	119	P/P	33 - 154
2462399	Oxyfluorfen	96.5	115	P/P	62 - 154
2462399	Parathion Ethyl	66.2	105	P/P	65 - 120
2462399	Parathion Methyl	61.0	121	F/P	77 - 185
2462399	PBB-153	74.7	85.6	P/P	23 - 193
2462399	PBDE-47	67.0	93.3	P/P	31 - 139
2462399	PBDE-99	68.6	85.7	P/P	24 - 138
2462399	Pendimethalin	79.7	106	P/P	50 - 146

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P440184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462399	Pentabromotoluene	68.0	95.9	P/P	54 - 152
2462399	Phenytoin	32.7	45.0	P/P	10 - 157
2462399	Phorate	73.2	88.9	P/P	54 - 161
2462399	Prodiamine	47.1	55.5	P/P	29 - 160
2462399	Prometon	89.9	105	P/P	38 - 145
2462399	Prometryn	94.3	114	P/P	32 - 151
2462399	Pronamide	91.3	109	P/P	61 - 140
2462399	Propanil	92.3	112	P/P	50 - 147
2462399	Propargite	69.1	73.8	P/P	10 - 190
2462399	Propiconazole	65.6	50.4	P/P	30 - 146
2462399	Pyraflufen Ethyl	78.1	59.5	P/P	30 - 147
2462399	Pyridaben	133	163	P/P	15 - 195
2462399	Pyriproxyfen	75.4	83.3	P/P	31 - 218
2462399	Simazine	73.8	81.0	P/P	45 - 139
2462399	Stirophos	73.5	58.4	P/P	10 - 134
2462399	Sulfentrazone	82.5	94.3	P/P	53 - 186
2462399	Tebuconazole	49.9	48.6	P/P	10 - 133
2462399	Terbufos	74.5	94.2	P/P	65 - 151
2462399	Terbuthylazine	71.6	88.6	P/P	62 - 117
2462399	Tetradecachloro-m-terphenyl	81.2	130	P/P	10 - 260
2462399	Thiobencarb	83.5	95.8	P/P	48 - 122
2462399	Tri-o-cresyl Phosphate	59.7	51.1	P/P	32 - 151
2462399	Triadimefon	73.9	89.5	P/P	46 - 124
2462399	Tris(1-chloro-2-propyl) phosphate (TCPP)	80.1	112	P/P	51 - 154
2462399	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	71.4	103	P/P	59 - 147
2462399	Tris(2-chloroethyl) phosphate (TCEP)	94.7	132	P/P	65 - 156

Reference Method: EPA 8270E
Batch ID: P440272

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462441	Aldrin	75.2	72.0	P/P	24 - 81.0
2462441	Alpha-BHC	86.9	87.4	P/P	65 - 110
2462441	Alpha-Chlordane	98.0	96.9	P/P	43 - 119
2462441	Beta-BHC	107	129	P/P	54 - 165
2462441	Beta-Cyfluthrin	116	115	P/P	27 - 165
2462441	Bifenthrin	100	109	P/P	17 - 117
2462441	Carbophenothion	93.1	92.1	P/P	21 - 108
2462441	Chlorothalonil	105	81.6	P/P	10 - 255
2462441	Cis-Nonachlor	72.9	68.3	P/P	34 - 98.0
2462441	Cypermethrin	42.5	54.3	P/P	25 - 143
2462441	Dacthal	113	114	P/P	55 - 139
2462441	DDD-p,p'	79.8	81.3	P/P	30 - 109
2462441	DDE-p,p'	88.5	106	P/P	35 - 106
2462441	DDT-p,p'	95.3	89.7	P/P	41 - 101
2462441	Delta-BHC	146	111	P/P	58 - 165
2462441	Deltamethrin	82.0	113	P/P	10 - 194
2462441	Dichlobenil	62.4	57.3	P/P	22 - 114
2462441	Dicofol	92.6	101	P/P	17 - 133
2462441	Dieldrin	94.9	104	P/P	45 - 129
2462441	Endosulfan I	111	93.5	F/P	49 - 104
2462441	Endosulfan II	99.7	85.0	P/P	37 - 117

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P440272

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462441	Endosulfan Sulfate	100	109	P/P	38 - 128
2462441	Endrin	35.9	41.7	P/P	35 - 116
2462441	Endrin Aldehyde	24.3	32.3	P/P	19 - 108
2462441	Endrin Ketone	105	87.8	P/P	44 - 134
2462441	Esfenvalerate	69.1	91.1	P/P	27 - 176
2462441	Ethalfluralin	68.6	72.7	P/P	49 - 100
2462441	Fenpropathrin	34.9	46.0	P/P	34 - 117
2462441	Gamma-BHC	108	122	P/P	59 - 129
2462441	Gamma-Chlordane	82.8	95.2	P/P	33 - 107
2462441	Heptachlor	100	75.2	F/P	37 - 94.0
2462441	Heptachlor Epoxide	88.0	86.0	P/P	38 - 118
2462441	Hexachlorobenzene	95.0	82.4	P/P	35 - 97.0
2462441	Kepone	86.3	95.1	P/P	10 - 221
2462441	Lambda-Cyhalothrin	115	144	P/P	23 - 190
2462441	Methoprene	97.2	102	P/P	21 - 109
2462441	Methoxychlor	98.1	94.3	P/P	46 - 118
2462441	MGK-264	114	95.7	P/P	39 - 122
2462441	Mirex	31.8	37.8	P/P	25 - 90.0
2462441	Oxychlordane	73.3	71.7	P/P	42 - 100
2462441	Permethrin	98.1	101	P/P	33 - 181
2462441	Phenothrin	86.5	98.3	P/P	12 - 125
2462441	Piperonyl Butoxide	67.7	81.6	P/P	10 - 178
2462441	Prallethrin	74.8	73.5	P/P	24 - 122
2462441	Tau-Fluvalinate	59.9	80.2	P/P	13 - 151
2462441	Tetramethrin	143	154	P/P	16 - 172
2462441	Trans-Nonachlor	77.7	72.2	P/P	39 - 100
2462441	Triclosan Methyl	30.4	32.8	F/F	43 - 110
2462441	Trifluralin	84.3	81.0	P/P	45 - 94.0
2462480	PCB-1016	61.8	60.2	P/P	45 - 107
2462480	PCB-1260	68.1	66.9	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P440272

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462480	Chlordane	99.9	106	P/P	43 - 123
2462480	Toxaphene	126	135	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P440128

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2461332	3-Hydroxycarbofuran	71.9	54.5	P/P	40 - 150
2461332	Aldicarb	64.2	60.5	P/P	30 - 150
2461332	Aldicarb Sulfone	93.4	86.3	P/P	40 - 150
2461332	Aldicarb Sulfoxide	41.4	40.8	P/P	40 - 150
2461332	Carbaryl	68.1	58.6	P/P	40 - 150
2461332	Carbofuran	67.3	53.2	P/P	40 - 150
2461332	Methiocarb	67.3	68.7	P/P	40 - 150
2461332	Methomyl	82.2	73.4	P/P	40 - 150
2461332	Oxamyl	85.3	77.2	P/P	40 - 150
2461332	Propoxur	59.6	50.4	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P440128

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462124	2,4-D	93.1	89.8	P/P	40 - 150
2462124	2,4,5-T	84.5	73.6	P/P	40 - 150
2462124	Acetaminophen	91.7	105	P/P	30 - 150
2462124	Acetamiprid	66.9	77.3	P/P	40 - 150
2462124	Afidopyropen	68.0	76.5	P/P	30 - 150
2462124	Bentazon	40.8	41.7	P/P	30 - 150
2462124	Benzovindiflupyr	82.5	89.2	P/P	40 - 150
2462124	Carbamazepine	65.0	77.7	P/P	40 - 150
2462124	Clothianidin	97.4	116	P/P	40 - 150
2462124	Dinotefuran	95.1	97.6	P/P	40 - 150
2462124	Diuron	58.7	73.2	P/P	40 - 150
2462124	Fenuron	73.9	79.1	P/P	40 - 150
2462124	Fluridone	80.5	88.2	P/P	40 - 150
2462124	Hydrocodone	80.2	88.0	P/P	40 - 150
2462124	Ibuprofen	63.5	66.8	P/P	40 - 150
2462124	Imazapyr	92.8	96.2	P/P	40 - 150
2462124	Imidacloprid	108	140	P/P	40 - 150
2462124	Linuron	66.2	75.7	P/P	40 - 150
2462124	Mandestrobin	85.9	94.4	P/P	40 - 150
2462124	MCPP	88.6	89.4	P/P	40 - 150
2462124	Naproxen	86.0	88.9	P/P	40 - 150
2462124	Primidone	85.2	89.3	P/P	40 - 150
2462124	Pyraclostrobin	77.5	86.3	P/P	40 - 150
2462124	Silvex	93.0	81.2	P/P	40 - 150
2462124	Thiamethoxam	71.9	94.4	P/P	40 - 150
2462124	Tolfenpyrad	55.3	53.3	P/P	30 - 150
2462124	Triclopyr	83.4	73.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462397	Acesulfame K	105	106	P/P	40 - 150
2462397	AMPA	106	108	P/P	40 - 160
2462397	Endothall	107	108	P/P	40 - 160
2462397	Glufosinate	104	109	P/P	40 - 160
2462397	Glyphosate	104	101	P/P	40 - 160
2462397	Sucralose	96.9	99.6	P/P	40 - 150

Quality Assurance Report
Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462445	Calcium	0.142	Spike	P	0 - 20
2462445	Iron	0.713	Spike	P	0 - 20
2462445	Magnesium	0.332	Spike	P	0 - 20
2462445	Potassium	0.125	Spike	P	0 - 20
2462445	Sodium	1.43	Spike	P	0 - 20
2462445	Strontium	3.21	Spike	P	0 - 20
2462445	Tin	3.08	Spike	P	0 - 20
2462445	Titanium	2.15	Spike	P	0 - 20
2462445	Vanadium	2.40	Spike	P	0 - 20
2462445	Zinc	2.21	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462445	Aluminum	2.67	Spike	P	0 - 20
2462445	Antimony	1.26	Spike	P	0 - 20
2462445	Arsenic	0.389	Spike	P	0 - 20
2462445	Barium	1.30	Spike	P	0 - 20
2462445	Beryllium	0.408	Spike	P	0 - 20
2462445	Boron	2.08	Spike	P	0 - 20
2462445	Cadmium	2.59	Spike	P	0 - 20
2462445	Chromium	2.44	Spike	P	0 - 20
2462445	Cobalt	0.666	Spike	P	0 - 20
2462445	Copper	0.521	Spike	P	0 - 20
2462445	Lead	1.42	Spike	P	0 - 20
2462445	Manganese	1.71	Spike	P	0 - 20
2462445	Molybdenum	3.19	Spike	P	0 - 20
2462445	Nickel	1.61	Spike	P	0 - 20
2462445	Selenium	1.51	Spike	P	0 - 20
2462445	Silver	0.601	Spike	P	0 - 20
2462445	Thallium	2.95	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P440184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462399	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	14.3	Spike	P	0 - 30
2462399	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	16.5	Spike	P	0 - 35
2462399	Acetochlor	30.0	Spike	F	0 - 28
2462399	Alachlor	13.8	Spike	P	0 - 30
2462399	Ametryn	26.0	Spike	P	0 - 32
2462399	Atrazine	17.5	Spike	P	0 - 33
2462399	Atrazine Desethyl	12.7	Spike	P	0 - 36
2462399	Avobenzone	32.4	Spike	P	0 - 35
2462399	Azinphos Methyl	9.93	Spike	P	0 - 62
2462399	Azoxystrobin	21.1	Spike	P	0 - 39
2462399	Bromacil	29.5	Spike	P	0 - 33
2462399	Butylate	51.6	Spike	F	0 - 51

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P440184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462399	Caffeine	13.7	Spike	P	0 - 100
2462399	Carbophenothion	10.9	Spike	P	0 - 34
2462399	Carfentrazone Ethyl	15.2	Spike	P	0 - 33
2462399	Chlorfenapyr	1.54	Spike	P	0 - 28
2462399	Chlorpyrifos Ethyl	17.6	Spike	P	0 - 31
2462399	Chlorpyrifos Methyl	20.1	Spike	P	0 - 27
2462399	Coumaphos	19.7	Spike	P	0 - 62
2462399	Cyanazine	17.8	Spike	P	0 - 48
2462399	Cyprodinil	25.6	Spike	P	0 - 29
2462399	Dechlorane 602	24.4	Spike	P	0 - 60
2462399	Dechlorane 603	28.4	Spike	P	0 - 40
2462399	Dechlorane Plus	21.0	Spike	P	0 - 38
2462399	Demeton	24.2	Spike	P	0 - 33
2462399	Diazinon	15.7	Spike	P	0 - 32
2462399	Difenoconazole	14.7	Spike	P	0 - 71
2462399	Dimethenamid	18.2	Spike	P	0 - 60
2462399	Dimethomorph	23.7	Spike	P	0 - 61
2462399	Disulfoton	26.9	Spike	P	0 - 30
2462399	Dithiopyr	18.6	Spike	P	0 - 28
2462399	EPTC	44.1	Spike	P	0 - 56
2462399	Ethion	16.5	Spike	P	0 - 79
2462399	Ethoprop	24.2	Spike	P	0 - 31
2462399	Etridiazole	37.3	Spike	P	0 - 43
2462399	Fenamiphos	32.9	Spike	P	0 - 43
2462399	Fenbuconazole	2.26	Spike	P	0 - 79
2462399	Fipronil	20.6	Spike	P	0 - 46
2462399	Fipronil Desulfinyl	11.7	Spike	P	0 - 36
2462399	Fipronil Sulfide	17.1	Spike	P	0 - 34
2462399	Fipronil Sulfone	2.69	Spike	P	0 - 47
2462399	Fluazifop-P-butyl	10.2	Spike	P	0 - 38
2462399	Fludioxonil	12.1	Spike	P	0 - 29
2462399	Flumioxazin	11.6	Spike	P	0 - 63
2462399	Flutolanil	14.7	Spike	P	0 - 36
2462399	Fluxapyroxad	11.1	Spike	P	0 - 65
2462399	Fonofos	5.43	Spike	P	0 - 35
2462399	Hexabromobenzene	25.0	Spike	P	0 - 41
2462399	Hexazinone	23.2	Spike	P	0 - 31
2462399	Imazalil	10.3	Spike	P	0 - 52
2462399	Iprodione	11.3	Spike	P	0 - 49
2462399	Loratadine	34.5	Spike	P	0 - 59
2462399	Malathion	13.7	Spike	P	0 - 77
2462399	Metalaxyl	29.3	Spike	P	0 - 76
2462399	Metolachlor	11.7	Spike	P	0 - 29
2462399	Metribuzin	22.9	Spike	P	0 - 51
2462399	Mevinphos	21.3	Spike	P	0 - 31
2462399	Molinate	27.0	Spike	P	0 - 39
2462399	Myclobutanil	16.2	Spike	P	0 - 34
2462399	Naled	34.8	Spike	P	0 - 37
2462399	Napropamide	3.65	Spike	P	0 - 100
2462399	Norflurazon	22.8	Spike	P	0 - 54
2462399	Octinoxate	31.7	Spike	P	0 - 35

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P440184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462399	Oxadiazon	13.6	Spike	P	0 - 34
2462399	Oxybenzone	40.5	Spike	F	0 - 35
2462399	Oxyfluorfen	17.7	Spike	P	0 - 28
2462399	Parathion Ethyl	45.2	Spike	F	0 - 31
2462399	Parathion Methyl	66.2	Spike	F	0 - 29
2462399	PBB-153	13.6	Spike	P	0 - 49
2462399	PBDE-47	32.8	Spike	P	0 - 36
2462399	PBDE-99	22.2	Spike	P	0 - 46
2462399	Pendimethalin	28.2	Spike	P	0 - 31
2462399	Pentabromotoluene	34.1	Spike	F	0 - 16
2462399	Phenytoin	31.5	Spike	P	0 - 100
2462399	Phorate	19.4	Spike	P	0 - 36
2462399	Prodiamine	16.3	Spike	P	0 - 68
2462399	Prometon	15.8	Spike	P	0 - 35
2462399	Prometryn	19.0	Spike	P	0 - 33
2462399	Pronamide	17.6	Spike	P	0 - 24
2462399	Propanil	19.1	Spike	P	0 - 28
2462399	Propargite	6.61	Spike	P	0 - 53
2462399	Propiconazole	26.2	Spike	P	0 - 44
2462399	Pyraflufen Ethyl	27.1	Spike	P	0 - 61
2462399	Pyridaben	20.4	Spike	P	0 - 43
2462399	Pyriproxyfen	9.87	Spike	P	0 - 82
2462399	Simazine	9.22	Spike	P	0 - 29
2462399	Stirophos	22.9	Spike	P	0 - 100
2462399	Sulfentrazone	13.3	Spike	P	0 - 64
2462399	Tebuconazole	2.64	Spike	P	0 - 76
2462399	Terbufos	23.3	Spike	P	0 - 29
2462399	Terbuthylazine	21.3	Spike	P	0 - 28
2462399	Tetradecachloro-m-terphenyl	46.3	Spike	F	0 - 42
2462399	Thiobencarb	13.6	Spike	P	0 - 26
2462399	Tri-o-cresyl Phosphate	15.5	Spike	P	0 - 24
2462399	Triadimefon	19.0	Spike	P	0 - 40
2462399	Tris(1-chloro-2-propyl) phosphate (TCPP)	33.0	Spike	F	0 - 30
2462399	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	36.3	Spike	F	0 - 22
2462399	Tris(2-chloroethyl) phosphate (TCEP)	33.0	Spike	F	0 - 15

Reference Method: EPA 8270E
Batch ID: P440272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462441	Aldrin	4.42	Spike	P	0 - 41
2462441	Alpha-BHC	0.597	Spike	P	0 - 25
2462441	Alpha-Chlordane	1.12	Spike	P	0 - 32
2462441	Beta-BHC	18.9	Spike	P	0 - 33
2462441	Beta-Cyfluthrin	1.23	Spike	P	0 - 43
2462441	Bifenthrin	7.95	Spike	P	0 - 52
2462441	Carbophenothion	1.03	Spike	P	0 - 49
2462441	Chlorothalonil	24.7	Spike	P	0 - 82
2462441	Cis-Nonachlor	6.48	Spike	P	0 - 33
2462441	Cypermethrin	24.3	Spike	P	0 - 51

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P440272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462441	Dacthal	1.04	Spike	P	0 - 27
2462441	DDD-p,p'	1.81	Spike	P	0 - 39
2462441	DDE-p,p'	17.8	Spike	P	0 - 31
2462441	DDT-p,p'	5.99	Spike	P	0 - 29
2462441	Delta-BHC	27.3	Spike	P	0 - 35
2462441	Deltamethrin	31.9	Spike	P	0 - 100
2462441	Dichlobenil	8.50	Spike	P	0 - 40
2462441	Dicofol	8.32	Spike	P	0 - 37
2462441	Dieldrin	9.36	Spike	P	0 - 27
2462441	Endosulfan I	17.0	Spike	P	0 - 23
2462441	Endosulfan II	15.9	Spike	P	0 - 34
2462441	Endosulfan Sulfate	8.30	Spike	P	0 - 36
2462441	Endrin	14.9	Spike	P	0 - 45
2462441	Endrin Aldehyde	28.4	Spike	P	0 - 76
2462441	Endrin Ketone	18.1	Spike	P	0 - 43
2462441	Esfenvalerate	27.5	Spike	P	0 - 51
2462441	Ethalfluralin	5.85	Spike	P	0 - 22
2462441	Fenpropathrin	27.3	Spike	P	0 - 49
2462441	Gamma-BHC	11.6	Spike	P	0 - 28
2462441	Gamma-Chlordane	13.9	Spike	P	0 - 40
2462441	Heptachlor	28.3	Spike	P	0 - 29
2462441	Heptachlor Epoxide	2.35	Spike	P	0 - 33
2462441	Hexachlorobenzene	14.2	Spike	P	0 - 36
2462441	Kepone	9.67	Spike	P	0 - 85
2462441	Lambda-Cyhalothrin	22.6	Spike	P	0 - 55
2462441	Methoprene	4.85	Spike	P	0 - 53
2462441	Methoxychlor	3.94	Spike	P	0 - 50
2462441	MGK-264	17.8	Spike	P	0 - 43
2462441	Mirex	17.0	Spike	P	0 - 40
2462441	Oxychlordane	2.19	Spike	P	0 - 31
2462441	Permethrin	2.94	Spike	P	0 - 50
2462441	Phenothrin	12.7	Spike	P	0 - 58
2462441	Piperonyl Butoxide	14.0	Spike	P	0 - 100
2462441	Prallethrin	1.71	Spike	P	0 - 39
2462441	Tau-Fluvalinate	28.9	Spike	P	0 - 54
2462441	Tetramethrin	7.94	Spike	P	0 - 51
2462441	Trans-Nonachlor	7.34	Spike	P	0 - 39
2462441	Triclosan Methyl	7.54	Spike	P	0 - 31
2462441	Trifluralin	4.02	Spike	P	0 - 22
2462480	PCB-1016	2.67	Spike	P	0 - 25
2462480	PCB-1260	1.68	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P440272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462480	Chlordane	6.28	Spike	P	0 - 28
2462480	Toxaphene	6.87	Spike	P	0 - 27

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P440128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2461332	3-Hydroxycarbofuran	27.7	Spike	P	0 - 30
2461332	Aldicarb	6.07	Spike	P	0 - 30
2461332	Aldicarb Sulfone	7.86	Spike	P	0 - 30
2461332	Aldicarb Sulfoxide	1.61	Spike	P	0 - 30
2461332	Carbaryl	15.0	Spike	P	0 - 30
2461332	Carbofuran	23.3	Spike	P	0 - 30
2461332	Methiocarb	2.11	Spike	P	0 - 30
2461332	Methomyl	11.3	Spike	P	0 - 30
2461332	Oxamyl	9.99	Spike	P	0 - 30
2461332	Propoxur	16.7	Spike	P	0 - 30
2462124	2,4-D	3.29	Spike	P	0 - 30
2462124	2,4,5-T	13.8	Spike	P	0 - 30
2462124	Acetaminophen	13.6	Spike	P	0 - 30
2462124	Acetamiprid	14.5	Spike	P	0 - 30
2462124	Afidopyropen	11.8	Spike	P	0 - 30
2462124	Bentazon	2.28	Spike	P	0 - 30
2462124	Benzovindiflupyr	7.80	Spike	P	0 - 30
2462124	Carbamazepine	17.8	Spike	P	0 - 30
2462124	Clothianidin	11.4	Spike	P	0 - 30
2462124	Dinotefuran	2.63	Spike	P	0 - 30
2462124	Diuron	20.6	Spike	P	0 - 30
2462124	Fenuron	6.71	Spike	P	0 - 30
2462124	Fluridone	9.08	Spike	P	0 - 30
2462124	Hydrocodone	9.23	Spike	P	0 - 30
2462124	Ibuprofen	5.09	Spike	P	0 - 30
2462124	Imazapyr	3.66	Spike	P	0 - 30
2462124	Imidacloprid	14.7	Spike	P	0 - 30
2462124	Linuron	13.3	Spike	P	0 - 30
2462124	Mandestrobin	9.46	Spike	P	0 - 30
2462124	MCPP	0.897	Spike	P	0 - 30
2462124	Naproxen	3.41	Spike	P	0 - 30
2462124	Primidone	4.77	Spike	P	0 - 30
2462124	Pyraclostrobin	10.8	Spike	P	0 - 30
2462124	Silvex	13.6	Spike	P	0 - 30
2462124	Thiamethoxam	10.9	Spike	P	0 - 30
2462124	Tolfenpyrad	3.77	Spike	P	0 - 30
2462124	Triclopyr	12.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P440203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462397	Acesulfame K	0.982	Spike	P	0 - 30
2462397	AMPA	2.02	Spike	P	0 - 30
2462397	Endothall	0.904	Spike	P	0 - 30
2462397	Glufosinate	4.69	Spike	P	0 - 30
2462397	Glyphosate	3.19	Spike	P	0 - 30
2462397	Sucralose	2.71	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: 2462436
Field Sample ID: G3SD0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	58.4	P	30 - 160

Lab Sample ID: 2462437
Field Sample ID: G3SD0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.6	P	30 - 160
EPA 8321B	Diuron-d6	53.7	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.1	P	30 - 160
EPA 8321B	Primidone-d5	80.8	P	30 - 160
EPA 8321B	Sucralose-d6	55.2	P	30 - 160

Lab Sample ID: 2462438
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.9	P	30 - 160
EPA 8321B	Diuron-d6	63.1	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.2	P	30 - 160
EPA 8321B	Primidone-d5	74.5	P	30 - 160
EPA 8321B	Sucralose-d6	98.7	P	30 - 160

Lab Sample ID: 2462439
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	83.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.7	P	30 - 160
EPA 8321B	Diuron-d6	53.6	P	30 - 160
EPA 8321B	Endothall-d6	111	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	94.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.9	P	30 - 160
EPA 8321B	Primidone-d5	76.6	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	30 - 160

Lab Sample ID: 2462440
Field Sample ID: G2SD0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	91.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	61.2	P	30 - 160
EPA 8321B	Diuron-d6	58.1	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2462440
Field Sample ID: G2SD0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	120	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.3	P	30 - 160
EPA 8321B	Primidone-d5	75.4	P	30 - 160
EPA 8321B	Sucralose-d6	108	P	30 - 160

Lab Sample ID: 2462441
Field Sample ID: G3SD0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	59.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	65.9	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	43.6	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	55.1	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	107	P	23 - 110
EPA 8276	PCNB	108	P	51 - 130

Lab Sample ID: 2462442
Field Sample ID: G3SD0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	85.0	P	20 - 200
EPA 8270E	Simazine-d10	93.1	P	58 - 137
EPA 8270E	Terbufos-d10	69.9	P	50 - 134
EPA 8270E	Terphenyl-d14	97.1	P	44 - 134

Lab Sample ID: 2462443
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	46.5	P	37 - 129
EPA 8270E	Decachlorobiphenyl	98.2	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	34.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	61.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	106	P	23 - 110
EPA 8276	PCNB	104	P	51 - 130

Lab Sample ID: 2462444
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	43.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	81.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	30.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	62.2	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	90.6	P	23 - 110
EPA 8276	PCNB	96.2	P	51 - 130

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A123777
Included Lab Sample IDs: 2462437, 2462438, 2462439, 2462440

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	94.9	106	P/P	50 - 150
2,4,5-T	85.3	102	P/P	50 - 150
3-Hydroxycarbofuran	109	97.9	P/P	60 - 150
Acetaminophen	115	119	P/P	60 - 160
Acetamiprid	110	97.1	P/P	50 - 150
Afidopyropen	104	102	P/P	50 - 150
Aldicarb	112	90.7	P/P	60 - 150
Aldicarb Sulfone	108	108	P/P	50 - 150
Aldicarb Sulfoxide	109	112	P/P	50 - 150
Bentazon	91.5	90.1	P/P	50 - 160
Benzovindiflupyr	107	93.5	P/P	50 - 150
Carbamazepine	109	101	P/P	60 - 150
Carbaryl	108	94.1	P/P	60 - 150
Carbofuran	113	93.8	P/P	50 - 150
Clothianidin	111	108	P/P	60 - 150
Dinotefuran	109	110	P/P	50 - 150
Diuron	112	94.4	P/P	60 - 160
Fenuron	107	95.5	P/P	60 - 150
Fluridone	107	101	P/P	60 - 160
Hydrocodone	110	113	P/P	60 - 150
Ibuprofen	88.1	65.7	P/P	50 - 160
Imazapyr	95.7	94.8	P/P	50 - 150
Imidacloprid	98.9	97.2	P/P	60 - 150
Linuron	91.6	92.1	P/P	60 - 150
Mandestrobin	111	99.9	P/P	50 - 150
MCPP	109	109	P/P	50 - 150
Methiocarb	99.2	106	P/P	50 - 150
Methomyl	104	103	P/P	50 - 150
Naproxen	71.5	110	P/P	50 - 160
Oxamyl	104	101	P/P	50 - 150
Primidone	94.6	98.4	P/P	60 - 150
Propoxur	112	103	P/P	50 - 150
Pyraclostrobin	111	95.7	P/P	60 - 150
Silvex	101	111	P/P	50 - 150
Thiamethoxam	111	106	P/P	50 - 150
Tolfenpyrad	98.5	95.0	P/P	60 - 150
Triclopyr	103	102	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A123812
Included Lab Sample IDs: 2462437, 2462438, 2462439, 2462440

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	124	P/P	60 - 160
Sucralose	90.0	101	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A123813
Included Lab Sample IDs: 2462437, 2462438, 2462439, 2462440

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A123813
Included Lab Sample IDs: 2462437, 2462438, 2462439, 2462440

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	100	99.6	P/P	60 - 160
Endothall	98.9	103	P/P	60 - 160
Glufosinate	102	101	P/P	60 - 160
Glyphosate	98.3	106	P/P	60 - 160

Reference Method: EPA 8276
Run ID: A123870
Included Lab Sample IDs: 2462441, 2462443, 2462444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123883
Included Lab Sample IDs: 2462441, 2462443, 2462444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.4		P	80 - 120
PCB-1260	98.8		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A123910
Included Lab Sample IDs: 2462445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.7	99.1	P/P	90 - 110
Antimony	98.0	98.3	P/P	90 - 110
Arsenic	98.1	97.2	P/P	90 - 110
Barium	98.2	98.3	P/P	90 - 110
Beryllium	98.8	97.5	P/P	90 - 110
Boron	104	106	P/P	90 - 110
Cadmium	100	99.7	P/P	90 - 110
Chromium	96.6	96.5	P/P	90 - 110
Cobalt	93.9	94.7	P/P	90 - 110
Copper	94.9	94.8	P/P	90 - 110
Lead	93.9	94.5	P/P	90 - 110
Manganese	94.8	96.7	P/P	90 - 110
Molybdenum	100	100	P/P	90 - 110
Nickel	94.7	94.5	P/P	90 - 110
Selenium	98.2	98.5	P/P	90 - 110
Silver	100	100	P/P	90 - 110
Thallium	101	101	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A123914
Included Lab Sample IDs: 2462442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	96.6		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123914
Included Lab Sample IDs: 2462442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	104		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	97.4		P	80 - 120
Dechlorane Plus	98.5		P	80 - 120
Hexabromobenzene	94.7		P	80 - 120
Octinoxate	106		P	80 - 120
Oxybenzone	109		P	80 - 120
PBB-153	97.8		P	80 - 120
PBDE-47	104		P	80 - 120
PBDE-99	102		P	80 - 120
Pentabromotoluene	102		P	80 - 120
Tetradecachloro-m-terphenyl	90.7		P	80 - 120
Tri-o-cresyl Phosphate	116		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	108		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	110		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124003
Included Lab Sample IDs: 2462442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.5		P	80 - 120
Alachlor	91.2		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	89.8		P	80 - 120
Atrazine Desethyl	99.8		P	80 - 120
Azinphos Methyl	71.4*		F	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	96.1		P	80 - 120
Caffeine	96.1		P	80 - 120
Carbophenothion	98.2		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	80.4		P	80 - 120
Chlorpyrifos Ethyl	88.1		P	80 - 120
Chlorpyrifos Methyl	95.9		P	80 - 120
Coumaphos	136*		F	80 - 120
Cyanazine	80.5		P	80 - 120
Cyprodinil	116		P	80 - 120
Demeton	98.1		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	115		P	80 - 120
Dimethenamid	94.8		P	80 - 120
Dimethomorph	97.0		P	80 - 120
Disulfoton	97.0		P	80 - 120
Dithiopyr	112		P	80 - 120
EPTC	102		P	80 - 120
Ethion	92.2		P	80 - 120
Ethoprop	94.8		P	80 - 120
Etridiazole	99.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124003
Included Lab Sample IDs: 2462442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenamiphos	94.5		P	80 - 120
Fenbuconazole	83.4		P	80 - 120
Fipronil	113		P	80 - 120
Fipronil Desulfinyl	93.5		P	80 - 120
Fipronil Sulfide	99.5		P	80 - 120
Fipronil Sulfone	105		P	80 - 120
Fluazifop-P-butyl	135*		F	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	105		P	80 - 120
Flutolanil	98.8		P	80 - 120
Fluxapyroxad	111		P	80 - 120
Fonofos	93.5		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	105		P	80 - 120
Iprodione	109		P	80 - 120
Loratadine	84.0		P	80 - 120
Malathion	85.6		P	80 - 120
Metalaxyl	88.1		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	105		P	80 - 120
Mevinphos	95.9		P	80 - 120
Molinate	87.7		P	80 - 120
Myclobutanil	87.3		P	80 - 120
Naled	118		P	80 - 120
Napropamide	95.2		P	80 - 120
Norflurazon	98.8		P	80 - 120
Oxadiazon	99.1		P	80 - 120
Oxyfluorfen	109		P	80 - 120
Parathion Ethyl	95.9		P	80 - 120
Parathion Methyl	82.3		P	80 - 120
Pendimethalin	88.4		P	80 - 120
Phenytoin	105		P	80 - 120
Phorate	94.7		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	99.0		P	80 - 120
Pronamide	97.2		P	80 - 120
Propanil	91.8		P	80 - 120
Propargite	105		P	80 - 120
Propiconazole	86.5		P	80 - 120
Pyraflufen Ethyl	110		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	97.8		P	80 - 120
Simazine	84.9		P	80 - 120
Stirophos	94.0		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	99.1		P	80 - 120
Terbufos	98.2		P	80 - 120
Terbuthylazine	94.1		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	93.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124107
Included Lab Sample IDs: 2462441, 2462443, 2462444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	111		P	80 - 120
Beta-BHC	111		P	80 - 120
Beta-Cyfluthrin	103		P	80 - 120
Bifenthrin	96.4		P	80 - 120
Carbophenothion	98.0		P	80 - 120
Chlorothalonil	104		P	80 - 120
Cis-Nonachlor	98.5		P	80 - 120
Cypermethrin	98.9		P	80 - 120
Dacthal	110		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	99.9		P	80 - 120
Delta-BHC	102		P	80 - 120
Deltamethrin	104		P	80 - 120
Dichlobenil	93.9		P	80 - 120
Dicofol	96.5		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	98.4		P	80 - 120
Endosulfan II	101		P	80 - 120
Endosulfan Sulfate	103		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	106		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfluralin	107		P	80 - 120
Fenpropathrin	86.3		P	80 - 120
Gamma-BHC	112		P	80 - 120
Gamma-Chlordane	85.7		P	80 - 120
Heptachlor	92.0		P	80 - 120
Heptachlor Epoxide	94.2		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	93.3		P	80 - 120
Lambda-Cyhalothrin	101		P	80 - 120
Methoprene	97.4		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	89.3		P	80 - 120
Mirex	90.0		P	80 - 120
Oxychlordane	88.9		P	80 - 120
Permethrin	103		P	80 - 120
Phenothrin	96.9		P	80 - 120
Piperonyl Butoxide	91.5		P	80 - 120
Prallethrin	93.9		P	80 - 120
Tau-Fluvalinate	112		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	116		P	80 - 120
Triclosan Methyl	83.8		P	80 - 120
Trifluralin	103		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124111
Included Lab Sample IDs: 2462445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	102	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Potassium	99.2	102	P/P	90 - 110
Sodium	97.2	102	P/P	90 - 110
Strontium	92.4	98.1	P/P	90 - 110
Tin	102	104	P/P	90 - 110
Titanium	99.1	100	P/P	90 - 110
Vanadium	99.2	101	P/P	90 - 110
Zinc	102	105	P/P	90 - 110

* 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 200.7 Rev. 4.4	Calcium	102					0.142
	Iron	104	105	104			0.713
	Magnesium	103					0.332
	Potassium	100					0.125
	Sodium	98.8					1.43
	Strontium	95.2	92.4	98.4			3.21
	Tin	97.1	94.0	91.1			3.08
	Titanium	99.8	101	98.9			2.15
	Vanadium	101	108	105			2.40
	Zinc	98.6	102	99.5			2.21
EPA 200.8 Rev. 5.4	Aluminum	101	99.1	102			2.67
	Antimony	102	103	104			1.26
	Arsenic	100	107	107			0.389
	Barium	101	99.4	101			1.30
	Beryllium	93.9	102	101			0.408
	Boron	109					2.08
	Cadmium	103	103	105			2.59
	Chromium	103	104	107			2.44
	Cobalt	99.1	101	102			0.666
	Copper	96.9	98.2	98.8			0.521
	Lead	95.6	97.8	99.2			1.42
	Manganese	102	99.4	101			1.71
	Molybdenum	102	103	107			3.19
	Nickel	98.9	101	102			1.61
	Selenium	99.6	102	103			1.51
	Silver	92.4	88.5	89.0			0.601
	Thallium	101	104	107			2.95
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	80.3	72.5	62.9			14.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102	75.4	88.9			16.5
	Acetochlor	109	73.2	99.0			30.0
	Alachlor	111	76.8	88.2			13.8
	Aldrin	100	75.2	72.0			4.42
	Alpha-BHC	99.1	86.9	87.4			0.597
	Alpha-Chlordane	86.1	98.0	96.9			1.12
	Ametryn	146	101	131			26.0
	Atrazine	105	71.0	84.6			17.5
	Atrazine Desethyl	112	109	123			12.7
	Avobenzone	124	84.7	117			32.4
	Azinphos Methyl	146	101	112			9.93
	Azoxystrobin	150	92.0	114			21.1
	Beta-BHC	110	107	129			18.9
	Beta-Cyfluthrin	118	116	115			1.23
	Bifenthrin	113	100	109			7.95
	Bromacil	122	85.9	116			29.5
	Butylate	62.1	32.7	55.4			51.6
	Caffeine	117	121	141			13.7
	Carbophenothion	127	95.6	107			10.9
	Carbophenothion	73.4	93.1	92.1			1.03
	Carfentrazone Ethyl	141	103	120			15.2
	Chlorfenapyr	100	68.1	67.0			1.54
	Chlorothalonil	70.8	105	81.6			24.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Chlorpyrifos Ethyl	111	74.2	88.6			17.6
	Chlorpyrifos Methyl	117	78.8	96.3			20.1
	Cis-Nonachlor	87.3	72.9	68.3			6.48
	Coumaphos	172	136	112			19.7
	Cyanazine	224	161	192			17.8
	Cypermethrin	79.2	42.5	54.3			24.3
	Cyprodinil	114	78.6	102			25.6
	Dacthal	87.5	113	114			1.04
	DDD-p,p'	103	79.8	81.3			1.81
	DDE-p,p'	89.3	88.5	106			17.8
	DDT-p,p'	95.8	95.3	89.7			5.99
	Dechlorane 602	64.9	57.1	72.9			24.4
	Dechlorane 603	102	72.5	96.5			28.4
	Dechlorane Plus	105	74.6	92.1			21.0
	Delta-BHC	116	146	111			27.3
	Deltamethrin	94.7	82.0	113			31.9
	Demeton	87.0	60.6	77.4			24.2
	Diazinon	120	80.8	94.6			15.7
	Dichlobenil	59.8	62.4	57.3			8.50
	Dicofol	97.6	92.6	101			8.32
	Dieldrin	94.7	94.9	104			9.36
	Difenoconazole	170	122	141			14.7
	Dimethenamid	95.5	72.1	86.6			18.2
	Dimethomorph	298	204	259			23.7
	Disulfoton	125	83.3	109			26.9
	Dithiopyr	114	82.4	99.3			18.6
	Endosulfan I	82.6	111	93.5			17.0
	Endosulfan II	84.1	99.7	85.0			15.9
	Endosulfan Sulfate	115	100	109			8.30
	Endrin	69.7	35.9	41.7			14.9
	Endrin Aldehyde	51.3	24.3	32.3			28.4
	Endrin Ketone	122	105	87.8			18.1
	EPTC	52.3	31.0	48.5			44.1
	Esfenvalerate	112	69.1	91.1			27.5
	Ethalfluralin	101	68.6	72.7			5.85
	Ethion	39.1	47.2	55.7			16.5
	Ethoprop	109	80.7	103			24.2
	Etridiazole	70.8	44.4	64.7			37.3
	Fenamiphos	98.5	75.3	105			32.9
	Fenbuconazole	119	87.3	85.4			2.26
	Fenpropathrin	85.3	34.9	46.0			27.3
	Fipronil	129	74.2	91.2			20.6
	Fipronil Desulfinyl	111	91.4	103			11.7
	Fipronil Sulfide	106	67.1	79.6			17.1
	Fipronil Sulfone	109	89.6	92.0			2.69
	Fluazifop-P-butyl	117	107	118			10.2
	Fludioxonil	106	79.8	90.0			12.1
	Flumioxazin	201	157	176			11.6
	Flutolanil	134	91.0	105			14.7
	Fluxapyroxad	92.6	81.9	91.6			11.1
	Fonofos	112	73.5	77.6			5.43
	Gamma-BHC	102	108	122			11.6
	Gamma-Chlordane	103	82.8	95.2			13.9
	Heptachlor	91.2	100	75.2			28.3

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Heptachlor Epoxide	114	88.0	86.0			2.35
	Hexabromobenzene	98.4	74.2	95.4			25.0
	Hexachlorobenzene	99.4	95.0	82.4			14.2
	Hexazinone	106	74.0	93.4			23.2
	Imazalil	129	124	138			10.3
	Iprodione	175	137	153			11.3
	Kepone	85.7	86.3	95.1			9.67
	Lambda-Cyhalothrin	129	115	144			22.6
	Loratadine	270	144	204			34.5
	Malathion	124	88.2	101			13.7
	Metalaxyl	95.6	67.6	90.7			29.3
	Methoprene	108	97.2	102			4.85
	Methoxychlor	95.4	98.1	94.3			3.94
	Metolachlor	101	72.8	81.9			11.7
	Metribuzin	126	82.7	104			22.9
	Mevinphos	97.0	73.4	90.9			21.3
	MGK-264	112	114	95.7			17.8
	Mirex	74.9	31.8	37.8			17.0
	Molinate	66.5	43.2	56.7			27.0
	Myclobutanil	109	83.3	98.0			16.2
	Naled	54.1	37.9	53.8			34.8
	Napropamide	65.3	74.2	76.9			3.65
	Norflurazon	113	89.3	71.0			22.8
	Octinoxate	101	73.8	102			31.7
	Oxadiazon	95.3	64.1	73.4			13.6
	Oxybenzone	99.3	79.2	119			40.5
	Oxychlordane	98.1	73.3	71.7			2.19
	Oxyfluorfen	120	96.5	115			17.7
	Parathion Ethyl	107	66.2	105			45.2
	Parathion Methyl	111	61.0	121			66.2
	PBB-153	105	74.7	85.6			13.6
	PBDE-47	85.8	67.0	93.3			32.8
	PBDE-99	90.1	68.6	85.7			22.2
	PCB-1016	68.2	61.8	60.2			2.67
	PCB-1260	77.1	68.1	66.9			1.68
	Pendimethalin	94.7	79.7	106			28.2
	Pentabromotoluene	89.8	68.0	95.9			34.1
	Permethrin	121	98.1	101			2.94
	Phenothrin	90.1	86.5	98.3			12.7
	Phenytoin	33.8	32.7	45.0			31.5
	Phorate	104	73.2	88.9			19.4
	Piperonyl Butoxide	103	67.7	81.6			14.0
	Prallethrin	96.3	74.8	73.5			1.71
	Prodiamine	42.7	47.1	55.5			16.3
	Prometon	105	89.9	105			15.8
	Prometryn	126	94.3	114			19.0
	Pronamide	119	91.3	109			17.6
	Propanil	124	92.3	112			19.1
	Propargite	71.0	69.1	73.8			6.61
	Propiconazole	87.0	65.6	50.4			26.2
	Pyraflufen Ethyl	125	78.1	59.5			27.1
	Pyridaben	164	133	163			20.4
	Pyriproxyfen	93.7	75.4	83.3			9.87
	Simazine	108	73.8	81.0			9.22

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Stirophos	70.9	73.5	58.4			22.9
	Sulfentrazone	118	82.5	94.3			13.3
	Tau-Fluvalinate	118	59.9	80.2			28.9
	Tebuconazole	51.2	48.6	49.9			2.64
	Terbufos	115	94.2	74.5			23.3
	Terbuthylazine	105	88.6	71.6			21.3
	Tetradecachloro-m-terphenyl	147	130	81.2			46.3
	Tetramethrin	136	143	154			7.94
	Thiobencarb	111	95.8	83.5			13.6
	Trans-Nonachlor	94.0	77.7	72.2			7.34
	Tri-o-cresyl Phosphate	88.6	59.7	51.1			15.5
	Triadimefon	101	89.5	73.9			19.0
	Triclosan Methyl	62.8	30.4	32.8			7.54
	Trifluralin	90.8	84.3	81.0			4.02
	Tris(1-chloro-2-propyl) phosphate (TCPP)	107	80.1	112			33.0
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	105	103	71.4			36.3
	Tris(2-chloroethyl) phosphate (TCEP)	119	94.7	132			33.0
EPA 8276	Chlordane	104	99.9	106			6.28
	Toxaphene	123	126	135			6.87
EPA 8321B	2,4-D	89.2	93.1	89.8			3.29
	2,4,5-T	102	84.5	73.6			13.8
	3-Hydroxycarbofuran	69.4	71.9	54.5			27.7
	Acesulfame K	106	105	106			0.982
	Acetaminophen	102	91.7	105			13.6
	Acetamiprid	85.2	66.9	77.3			14.5
	Afidopyropen	72.4	68.0	76.5			11.8
	Aldicarb	56.3	64.2	60.5			6.07
	Aldicarb Sulfone	93.2	93.4	86.3			7.86
	Aldicarb Sulfoxide	59.7	41.4	40.8			1.61
	AMPA	101	106	108			2.02
	Bentazon	69.2	40.8	41.7			2.28
	Benzovindiflupyr	85.8	82.5	89.2			7.80
	Carbamazepine	83.4	65.0	77.7			17.8
	Carbaryl	78.2	68.1	58.6			15.0
	Carbofuran	80.5	67.3	53.2			23.3
	Clothianidin	101	97.4	116			11.4
	Dinotefuran	109	95.1	97.6			2.63
	Diuron	83.2	58.7	73.2			20.6
	Endothall	101	107	108			0.904
	Fenuron	101	73.9	79.1			6.71
	Fluridone	92.9	80.5	88.2			9.08
	Glufosinate	99.5	104	109			4.69
	Glyphosate	99.2	104	101			3.19
	Hydrocodone	97.5	80.2	88.0			9.23
	Ibuprofen	67.7	63.5	66.8			5.09
	Imazapyr	97.2	92.8	96.2			3.66
	Imidacloprid	94.3	108	140			14.7
	Linuron	78.9	66.2	75.7			13.3
	Mandestrobin	94.5	85.9	94.4			9.46
	MCPP	92.8	88.6	89.4			0.897
	Methiocarb	71.5	67.3	68.7			2.11

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Methomyl	90.6	82.2	73.4			11.3
	Naproxen	68.2	86.0	88.9			3.41
	Oxamyl	93.2	85.3	77.2			9.99
	Primidone	86.4	85.2	89.3			4.77
	Propoxur	75.0	59.6	50.4			16.7
	Pyraclostrobin	81.5	77.5	86.3			10.8
	Silvex	86.2	93.0	81.2			13.6
	Sucralose	106	96.9	99.6			2.71
	Thiamethoxam	103	71.9	94.4			10.9
	Tolfenpyrad	50.7	55.3	53.3			3.77
	Triclopyr	108	83.4	73.3			12.9

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2462445
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2462445
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2462442
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2462441, 2462443, 2462444
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2462442
EPA 8270E	PCBs in water matrices by GC/MS/MS	2462441, 2462443, 2462444
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2462441, 2462443, 2462444
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2462436
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2462437, 2462438, 2462439, 2462440
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2462445

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 200.7 Rev. 4.4	01/22/2024	01/29/2024 12:20	George D Taylor	02/12/2024 12:53	McKinley C Carter	2462445
EPA 200.8 Rev. 5.4	01/22/2024	01/29/2024 12:20	George D Taylor	01/30/2024 22:16	Emily M Philpot	2462445
	01/22/2024	01/29/2024 12:20	George D Taylor	01/30/2024 23:32	Emily M Philpot	2462445
EPA 8270E	01/22/2024	01/24/2024 08:00	Rasheda Ghaffari	01/26/2024 23:56	Lipi Saha	2462441
	01/22/2024	01/24/2024 08:00	Rasheda Ghaffari	01/27/2024 00:26	Lipi Saha	2462443
	01/22/2024	01/24/2024 08:00	Rasheda Ghaffari	01/27/2024 00:56	Lipi Saha	2462444
	01/22/2024	01/24/2024 08:00	Rasheda Ghaffari	02/05/2024 20:04	Julie Wi	2462441
	01/22/2024	01/24/2024 08:00	Rasheda Ghaffari	02/05/2024 21:03	Julie Wi	2462443
	01/22/2024	01/24/2024 08:00	Rasheda Ghaffari	02/05/2024 21:32	Julie Wi	2462444
	01/22/2024	01/25/2024 08:00	Rasheda Ghaffari	01/30/2024 19:46	Arthur Maknenko	2462442
	01/22/2024	01/25/2024 08:00	Rasheda Ghaffari	02/01/2024 20:12	Vandana T. Nagar	2462442
	01/22/2024	01/25/2024 08:00	Rasheda Ghaffari	02/01/2024 22:54	Vandana T. Nagar	2462442
EPA 8276	01/22/2024	01/24/2024 08:00	Rasheda Ghaffari	01/27/2024 07:09	Kenedi Mills	2462441
	01/22/2024	01/24/2024 08:00	Rasheda Ghaffari	01/27/2024 08:05	Kenedi Mills	2462443
	01/22/2024	01/24/2024 08:00	Rasheda Ghaffari	01/27/2024 09:00	Kenedi Mills	2462444
EPA 8321B	01/22/2024	01/22/2024 15:30	Hoor Shaik	01/23/2024 15:37	Juyoung Kim	2462437
	01/22/2024	01/22/2024 15:30	Hoor Shaik	01/23/2024 15:55	Juyoung Kim	2462438
	01/22/2024	01/22/2024 15:30	Hoor Shaik	01/23/2024 16:13	Juyoung Kim	2462439
	01/22/2024	01/22/2024 15:30	Hoor Shaik	01/23/2024 16:31	Juyoung Kim	2462440
	01/22/2024	01/22/2024 15:30	Hoor Shaik	01/23/2024 17:24	Juyoung Kim	2462436
	01/22/2024	01/24/2024 13:00	Samatha Luckman	01/24/2024 18:48	Samatha Luckman	2462437
	01/22/2024	01/24/2024 13:00	Samatha Luckman	01/24/2024 19:02	Samatha Luckman	2462438
	01/22/2024	01/24/2024 13:00	Samatha Luckman	01/24/2024 19:15	Samatha Luckman	2462439
	01/22/2024	01/24/2024 13:00	Samatha Luckman	01/24/2024 19:29	Samatha Luckman	2462440
	01/22/2024	01/24/2024 13:00	Samatha Luckman	01/24/2024 22:17	Samatha Luckman	2462437
	01/22/2024	01/24/2024 13:00	Samatha Luckman	01/24/2024 22:31	Samatha Luckman	2462438
	01/22/2024	01/24/2024 13:00	Samatha Luckman	01/24/2024 22:45	Samatha Luckman	2462439
	01/22/2024	01/24/2024 13:00	Samatha Luckman	01/24/2024 22:59	Samatha Luckman	2462440
SM 2340 B-2011	01/22/2024			02/12/2024 12:53	McKinley C Carter	2462445