

Chemical Analysis Report

CEN-DIST-2021-09-28-02

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

Event Description: **Spruce Creek - SCI + Spruce Other**
Request ID: **RQ-2021-09-06-52**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

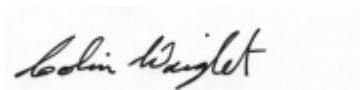
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This Report replaces the previous Report Serial Number: 0133504

Report Comment: The Practical Quantitation Limit associated with the analyte pendimethalin was corrected in the LIMS database. There are no changes from the previous report.

Revision certified by: Colin Wright, Program Administrator

Date Certified: 08-NOV-2021 08:41



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: Spruce Creek at Spruce Creek Blvd.

Collection Date/Time: 09/27/2021 10:28

Field ID: G5CE0083

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278745	EPA 200.7 Rev. 4.4	Barium	16.5		ug/L	P404421	
		Calcium	24.1		mg/L	P404421	
		Iron	1.79E+03		ug/L	P404421	
		Magnesium	3.01		mg/L	P404421	
		Manganese	14.9		ug/L	P404421	
		Potassium	1.6		mg/L	P404421	
		Sodium	16.1		mg/L	P404421	
	EPA 200.8 Rev. 5.4	Zinc	9.2	I	ug/L	P404421	
		Aluminum	490		ug/L	P404421	
		Antimony	0.077	I	ug/L	P404421	
		Arsenic	0.93		ug/L	P404421	
		Beryllium	0.036	I	ug/L	P404421	
		Boron**	33.1		ug/L	P404421	
		Cadmium	0.020	U	ug/L	P404421	
		Chromium	0.81	I	ug/L	P404421	
		Copper	0.73	I	ug/L	P404421	
		Lead	0.64		ug/L	P404421	
		Nickel	0.58	I	ug/L	P404421	
		Selenium	0.20	U	ug/L	P404421	
		Silver	0.010	U	ug/L	P404421	
		Thallium	0.10	U	ug/L	P404421	
	SM 2340B	Hardness	72.6		mg/L	P404421	

Sample Location: Spruce Creek @ Pioneer Trail

Collection Date/Time: 09/27/2021 12:16

Field ID: G5CE0153

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278736	EPA 8321B	Aldicarb	0.020	U	ug/L	P404483	
		Aldicarb Sulfone	0.0020	U	ug/L	P404483	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P404483	
		Carbaryl	0.0020	U	ug/L	P404483	
		Carbofuran	0.0020	U	ug/L	P404483	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P404483	
		Methiocarb	0.0020	U	ug/L	P404483	
		Methomyl	0.0020	U	ug/L	P404483	
		Oxamyl	0.0020	U	ug/L	P404483	
		Propoxur	0.0020	U	ug/L	P404483	
2278737		Acesulfame K	0.10	U	ug/L	P404276	
		2,4-D	0.17		ug/L	P404244	MS
		2,4,5-T	0.0040	U	ug/L	P404244	
		AMPA	0.35	I	ug/L	P404276	
		Acetaminophen	0.0080	U	ug/L	P404244	
		Acetamiprid	0.0020	U	ug/L	P404244	
		Endothall	0.25	U	ug/L	P404276	
		Glufosinate	0.10	U	ug/L	P404276	
		Glyphosate	0.66		ug/L	P404276	
		Afidopyropen	0.0020	U	ug/L	P404244	
		Bentazon	0.29		ug/L	P404244	
		Sucralose	0.35		ug/L	P404276	
		Benzovindiflupyr	0.0020	U	ug/L	P404244	
		Carbamazepine	8.0E-04	U	ug/L	P404244	
		Clothianidin	0.023		ug/L	P404244	
		Dinotefuran	0.0020	U	ug/L	P404244	
		Diuron	0.012		ug/L	P404244	
		Fenuron	0.016	U	ug/L	P404244	
		Fluridone	0.018		ug/L	P404244	
		Imazapyr	0.21		ug/L	P404244	
		Hydrocodone	0.0020	U	ug/L	P404244	
		Ibuprofen	0.020	U	ug/L	P404244	
		Imidacloprid	0.14		ug/L	P404244	MS
		Linuron	0.0040	U	ug/L	P404244	
		Mandestrobin	0.0020	U	ug/L	P404244	
		MCP	0.0083		ug/L	P404244	MS
		Naproxen	0.0080	U	ug/L	P404244	
		Primidone	0.0040	U	ug/L	P404244	
		Pyraclostrobin	0.0020	U	ug/L	P404244	
		Thiamethoxam	0.0020	U	ug/L	P404244	MS
		Tolfenpyrad	0.0020	U	ug/L	P404244	
		Triclopyr	0.0040	U	ug/L	P404244	
2278740	EPA 8270E	Aldrin	0.68	UJ	ng/L	P404269	RPD
		Alpha-BHC	0.10	U	ng/L	P404269	

Field ID: G5CE0153

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278740	EPA 8270E	Alpha-Chlordane	0.21	U	ng/L	P404269	
		Beta-BHC	0.10	U	ng/L	P404269	
		Beta-Cyfluthrin**	1.3	U	ng/L	P404269	
		Bifenthrin**	0.52	UJ	ng/L	P404269	RPD
		Chlorothalonil	0.72	I	ng/L	P404269	
		Cis-Nonachlor**	0.21	U	ng/L	P404269	
		Cypermethrin	1.6	U	ng/L	P404269	
		Dacthal**	0.16	U	ng/L	P404269	
		DDD-p,p'	0.26	U	ng/L	P404269	
		DDE-p,p'	0.21	U	ng/L	P404269	
		DDT-p,p'	0.69	IQ	ng/L	P404625	
		Delta-BHC	0.42	U	ng/L	P404269	
		Deltamethrin**	1.3	U	ng/L	P404269	RPD
		Dichlobenil**	0.10	U	ng/L	P404269	
		Dicofol	1.3	U	ng/L	P404269	
		Dieldrin	0.42	U	ng/L	P404269	
		Endosulfan I	0.42	U	ng/L	P404269	
		Endosulfan II	0.42	U	ng/L	P404269	
		Endosulfan Sulfate	0.31	U	ng/L	P404269	
		Endrin	0.42	U	ng/L	P404269	
		Endrin Aldehyde	0.78	U	ng/L	P404269	
		Endrin Ketone	0.42	U	ng/L	P404269	
		Esfenvalerate**	0.78	U	ng/L	P404269	
		Ethalfuralin**	0.16	U	ng/L	P404269	
		Fenpropathrin**	0.26	U	ng/L	P404269	
		Gamma-BHC	0.13	U	ng/L	P404269	
		Gamma-Chlordane	0.24	I	ng/L	P404269	
		Heptachlor	0.21	U	ng/L	P404269	
		Heptachlor Epoxide	0.26	U	ng/L	P404269	
		Hexachlorobenzene	1.0	U	ng/L	P404269	
		Kepone**	5.2	UJ	ng/L	P404269	CCV
		Lambda-Cyhalothrin**	0.78	UJ	ng/L	P404269	RPD
		Methoprene**	0.78	UJ	ng/L	P404269	RPD
		Methoxychlor	0.31	U	ng/L	P404269	
		MGK-264**	0.21	U	ng/L	P404269	
		Mirex	0.73	U	ng/L	P404269	
		Oxychlordane**	0.31	U	ng/L	P404269	
		Permethrin	1.7	U	ng/L	P404269	RPD
		Phenothrin**	0.94	UJ	ng/L	P404269	RPD
		Piperonyl Butoxide**	0.16	U	ng/L	P404269	
		Prallethrin**	2.1	UJ	ng/L	P404269	RPD
		Tau-Fluvalinate**	0.26	U	ng/L	P404269	
		Tetramethrin**	0.78	UJ	ng/L	P404269	RPD
		Trans-Nonachlor**	0.21	U	ng/L	P404269	
		Triclosan Methyl**	0.16	U	ng/L	P404269	

Field ID: G5CE0153

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278740	EPA 8270E	Trifluralin	0.21	U	ng/L	P404269	
	EPA 8276	Chlordane	2.6	U	ng/L	P404269	
		Toxaphene	16	U	ng/L	P404269	
2278741	EPA 8270E	Acetochlor	0.24	U	ng/L	P404389	
		Alachlor	0.24	U	ng/L	P404389	
		Ametryn	0.58	U	ng/L	P404389	
		Atrazine	53		ng/L	P404389	
		Atrazine Desethyl	12		ng/L	P404389	
		Azinphos Methyl	1.9	U	ng/L	P404389	
		Azoxystrobin**	0.67	I	ng/L	P404389	
		Bromacil	0.48	U	ng/L	P404389	
		Butylate	0.39	U	ng/L	P404389	
		Caffeine**	7.2	U	ng/L	P404389	
		Carbophenothion	0.48	U	ng/L	P404389	
		Carfentrazone Ethyl**	0.097	U	ng/L	P404389	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P404389	
		Chlorpyrifos Methyl	0.048	U	ng/L	P404389	
		Cyanazine	3.1	U	ng/L	P404389	
		Demeton	1.4	U	ng/L	P404389	
		Diazinon	0.12	U	ng/L	P404389	
		Difenoconazole**	0.58	U	ng/L	P404389	
		Dimethenamid**	0.097	U	ng/L	P404389	
		Disulfoton	0.48	U	ng/L	P404389	
		Dithiopyr**	0.17	U	ng/L	P404389	
		EPTC	1.2	U	ng/L	P404389	
		Ethion	0.14	U	ng/L	P404389	
		Ethoprop	0.097	U	ng/L	P404389	
		Fenamiphos	0.48	U	ng/L	P404389	
		Fenbuconazole**	0.12	UJ	ng/L	P404389	LCS, MS, RPD
		Fipronil	1.5		ng/L	P404389	
		Fipronil Desulfinyl**	2.3		ng/L	P404389	
		Fipronil Sulfide	0.89		ng/L	P404389	
		Fipronil Sulfone	2.4		ng/L	P404389	
		Fluazifop-P-butyl**	0.097	U	ng/L	P404389	
		Fludioxonil**	0.12	U	ng/L	P404389	
		Flumioxazin**	12		ng/L	P404389	
		Flutolanil**	0.56		ng/L	P404389	
		Fluxapyroxad**	1.4		ng/L	P404389	
		Fonofos	0.19	U	ng/L	P404389	
		Hexazinone	0.48	U	ng/L	P404389	
		Imazalil**	0.72	U	ng/L	P404389	
		Iprodione**	0.58	U	ng/L	P404389	
		Malathion	0.34	U	ng/L	P404389	RPD
		Metalaxyl	0.72	U	ng/L	P404389	

Field ID: G5CE0153

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278741	EPA 8270E	Metolachlor	1.9		ng/L	P404389	
		Metribuzin	3.1	U	ng/L	P404389	
		Mevinphos	1.0	U	ng/L	P404389	
		Molinate	0.29	U	ng/L	P404389	
		Myclobutanil**	0.69	I	ng/L	P404389	
		Naled**	1.4	UJ	ng/L	P404389	LCS
		Norflurazon	0.48	U	ng/L	P404389	
		Oxadiazon	0.29	I	ng/L	P404389	MS
		Oxyfluorfen**	0.14	U	ng/L	P404389	
		Parathion Ethyl	0.24	U	ng/L	P404389	
		Parathion Methyl	0.53	U	ng/L	P404389	
		Pendimethalin	0.97	U	ng/L	P404389	
		Phorate	0.51	U	ng/L	P404389	
		Prodiamine**	0.17	U	ng/L	P404389	
		Prometon	0.87	U	ng/L	P404389	
		Prometryn	0.19	U	ng/L	P404389	
		Pronamide**	0.14	U	ng/L	P404389	
		Propiconazole**	1.7	I	ng/L	P404389	
		Pyriproxyfen**	0.12	U	ng/L	P404389	
		Simazine	11		ng/L	P404389	
		Sulfentrazone**	23		ng/L	P404389	
		Tebuconazole**	0.92	I	ng/L	P404389	
		Terbufos	0.097	U	ng/L	P404389	
		Terbuthylazine	0.41	U	ng/L	P404389	
2278744	EPA 200.7 Rev. 4.4	Barium	17.3		ug/L	P404421	
		Calcium	19.2		mg/L	P404421	
		Iron	1.82E+03		ug/L	P404421	
		Magnesium	2.95		mg/L	P404421	
		Manganese	14.1		ug/L	P404421	
		Potassium	1.9		mg/L	P404421	
		Sodium	16.5		mg/L	P404421	
		Zinc	5.0	U	ug/L	P404421	
	EPA 200.8 Rev. 5.4	Aluminum	582		ug/L	P404421	
		Antimony	0.084	I	ug/L	P404421	
		Arsenic	1.00		ug/L	P404421	
		Boron**	36.8		ug/L	P404421	
		Cadmium	0.020	U	ug/L	P404421	
		Chromium	0.91	I	ug/L	P404421	
		Copper	0.68	I	ug/L	P404421	
		Lead	0.76		ug/L	P404421	
		Nickel	0.65	I	ug/L	P404421	
		Selenium	0.25	I	ug/L	P404421	
		Silver	0.010	U	ug/L	P404421	
		Thallium	0.10	U	ug/L	P404421	
		Hardness	60.2		mg/L	P404421	
	SM 2340B						

Field ID: G5CE0153

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
EPA 8270E: Sample expired for preparation for DDT-p,p' due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 09/27/2021 12:40

Field ID: FB_09272021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278738	EPA 8321B	Aldicarb	0.020	U	ug/L	P404483	
		Aldicarb Sulfone	0.0020	U	ug/L	P404483	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P404483	
		Carbaryl	0.0020	U	ug/L	P404483	
		Carbofuran	0.0020	U	ug/L	P404483	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P404483	
		Methiocarb	0.0020	U	ug/L	P404483	
		Methomyl	0.0020	U	ug/L	P404483	
		Oxamyl	0.0020	U	ug/L	P404483	
		Propoxur	0.0020	U	ug/L	P404483	
2278739		Acesulfame K	0.10	U	ug/L	P404276	
		2,4-D	0.0020	U	ug/L	P404244	MS
		2,4,5-T	0.0040	U	ug/L	P404244	
		AMPA	0.10	U	ug/L	P404276	
		Acetaminophen	0.0080	U	ug/L	P404244	
		Acetamiprid	0.0020	U	ug/L	P404244	
		Endothall	0.25	U	ug/L	P404276	
		Glufosinate	0.10	U	ug/L	P404276	
		Glyphosate	0.10	U	ug/L	P404276	
		Afidopyropen	0.0020	U	ug/L	P404244	
		Bentazon	8.0E-04	U	ug/L	P404244	
		Sucralose	0.010	U	ug/L	P404276	
		Benzovindiflupyr	0.0020	U	ug/L	P404244	
		Carbamazepine	8.0E-04	U	ug/L	P404244	
		Clothianidin	0.0020	U	ug/L	P404244	
		Dinotefuran	0.0020	U	ug/L	P404244	
		Diuron	0.0020	U	ug/L	P404244	
		Fenuron	0.016	U	ug/L	P404244	
		Fluridone	8.0E-04	U	ug/L	P404244	
		Imazapyr	0.0040	U	ug/L	P404244	
		Hydrocodone	0.0020	U	ug/L	P404244	
		Ibuprofen	0.020	U	ug/L	P404244	
		Imidacloprid	0.0020	U	ug/L	P404244	MS
		Linuron	0.0040	U	ug/L	P404244	
		Mandestrobin	0.0020	U	ug/L	P404244	
		MCPP	0.0020	U	ug/L	P404244	MS
		Naproxen	0.0080	U	ug/L	P404244	
		Primidone	0.0040	U	ug/L	P404244	
		Pyraclostrobin	0.0020	U	ug/L	P404244	
		Thiamethoxam	0.0020	U	ug/L	P404244	MS
		Tolfenpyrad	0.0020	U	ug/L	P404244	
		Triclopyr	0.0040	U	ug/L	P404244	
2278742	EPA 8270E	Aldrin	0.67	UJ	ng/L	P404269	RPD
		Alpha-BHC	0.10	U	ng/L	P404269	

Field ID: FB_09272021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278742	EPA 8270E	Alpha-Chlordane	0.21	UQ	ng/L	P404625	
		Beta-BHC	0.10	U	ng/L	P404269	
		Beta-Cyfluthrin**	1.3	U	ng/L	P404269	
		Bifenthrin**	0.51	UJ	ng/L	P404269	RPD
		Chlorothalonil	0.51	U	ng/L	P404269	
		Cis-Nonachlor**	0.21	U	ng/L	P404269	
		Cypermethrin	1.5	U	ng/L	P404269	
		Dacthal**	0.15	U	ng/L	P404269	
		DDD-p,p'	0.26	U	ng/L	P404269	
		DDE-p,p'	0.21	U	ng/L	P404269	
		DDT-p,p'	0.26	UQ	ng/L	P404625	
		Delta-BHC	0.41	U	ng/L	P404269	
		Deltamethrin**	1.3	U	ng/L	P404269	RPD
		Dichlobenil**	0.10	U	ng/L	P404269	
		Dicofol	1.3	U	ng/L	P404269	
		Dieldrin	0.41	UQ	ng/L	P404625	
		Endosulfan I	0.41	U	ng/L	P404269	
		Endosulfan II	0.41	U	ng/L	P404269	
		Endosulfan Sulfate	0.31	U	ng/L	P404269	
		Endrin	0.41	U	ng/L	P404269	
		Endrin Aldehyde	0.77	U	ng/L	P404269	
		Endrin Ketone	0.41	U	ng/L	P404269	
		Esfenvalerate**	0.77	U	ng/L	P404269	
		Ethalfuralin**	0.15	U	ng/L	P404269	
		Fenpropathrin**	0.26	U	ng/L	P404269	
		Gamma-BHC	0.13	U	ng/L	P404269	
		Gamma-Chlordane	0.21	UQ	ng/L	P404625	
		Heptachlor	0.21	U	ng/L	P404269	
		Heptachlor Epoxide	0.26	UQ	ng/L	P404625	
		Hexachlorobenzene	1.0	U	ng/L	P404269	
		Kepone**	5.1	UJ	ng/L	P404269	CCV
		Lambda-Cyhalothrin**	0.77	UJ	ng/L	P404269	RPD
		Methoprene**	0.77	UJ	ng/L	P404269	RPD
		Methoxychlor	0.31	U	ng/L	P404269	
		MGK-264**	0.21	U	ng/L	P404269	
		Mirex	0.72	U	ng/L	P404269	
		Oxychlordane**	0.31	U	ng/L	P404269	
		Permethrin	1.6	U	ng/L	P404269	RPD
		Phenothrin**	0.93	UJ	ng/L	P404269	RPD
		Piperonyl Butoxide**	0.15	U	ng/L	P404269	
		Prallethrin**	2.1	UJ	ng/L	P404269	RPD
		Tau-Fluvalinate**	0.26	U	ng/L	P404269	
		Tetramethrin**	0.77	UJ	ng/L	P404269	RPD
		Trans-Nonachlor**	0.21	U	ng/L	P404269	
		Triclosan Methyl**	0.15	U	ng/L	P404269	

Field ID: FB_09272021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278742	EPA 8270E	Trifluralin	0.21	U	ng/L	P404269	
	EPA 8276	Chlordane	2.8	I	ng/L	P404269	
		Toxaphene	15	U	ng/L	P404269	
2278743	EPA 8270E	Acetochlor	0.24	U	ng/L	P404389	
		Alachlor	0.24	U	ng/L	P404389	
		Ametryn	0.59	U	ng/L	P404389	
		Atrazine	0.24	U	ng/L	P404389	
		Atrazine Desethyl	1.5	U	ng/L	P404389	
		Azinphos Methyl	2.0	U	ng/L	P404389	
		Azoxystrobin**	0.49	U	ng/L	P404389	
		Bromacil	0.49	U	ng/L	P404389	
		Butylate	0.39	U	ng/L	P404389	
		Caffeine**	7.3	U	ng/L	P404389	
		Carbophenothion	0.49	U	ng/L	P404389	
		Carfentrazone Ethyl**	0.098	U	ng/L	P404389	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P404389	
		Chlorpyrifos Methyl	0.049	U	ng/L	P404389	
		Cyanazine	3.2	U	ng/L	P404389	
		Demeton	1.5	U	ng/L	P404389	
		Diazinon	0.12	U	ng/L	P404389	
		Difenoconazole**	0.59	U	ng/L	P404389	
		Dimethenamid**	0.098	U	ng/L	P404389	
		Disulfoton	0.49	U	ng/L	P404389	
		Dithiopyr**	0.17	U	ng/L	P404389	
		EPTC	1.2	U	ng/L	P404389	
		Ethion	0.15	U	ng/L	P404389	
		Ethoprop	0.098	U	ng/L	P404389	
		Fenamiphos	0.49	U	ng/L	P404389	
		Fenbuconazole**	0.12	UJ	ng/L	P404389	LCS, MS, RPD
		Fipronil	0.24	U	ng/L	P404389	
		Fipronil Desulfinyl**	0.12	U	ng/L	P404389	
		Fipronil Sulfide	0.15	U	ng/L	P404389	
		Fipronil Sulfone	0.15	U	ng/L	P404389	
		Fluazifop-P-butyl**	0.098	U	ng/L	P404389	
		Fludioxonil**	0.12	U	ng/L	P404389	
		Flumioxazin**	1.7	U	ng/L	P404389	
		Flutolanil**	0.098	U	ng/L	P404389	
		Fluxapyroxad**	0.098	U	ng/L	P404389	
		Fonofos	0.20	U	ng/L	P404389	
		Hexazinone	0.49	U	ng/L	P404389	
		Imazalil**	0.73	U	ng/L	P404389	
		Iprodione**	0.59	U	ng/L	P404389	
		Malathion	0.34	U	ng/L	P404389	RPD
		Metalaxyl	0.73	U	ng/L	P404389	

Field ID: FB_09272021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278743	EPA 8270E	Metolachlor	0.34	U	ng/L	P404389	
		Metribuzin	3.2	U	ng/L	P404389	
		Mevinphos	1.0	U	ng/L	P404389	
		Molinate	0.29	U	ng/L	P404389	
		Myclobutanil**	0.24	U	ng/L	P404389	
		Naled**	1.5	UJ	ng/L	P404389	LCS
		Norflurazon	0.49	U	ng/L	P404389	
		Oxadiazon	0.29	U	ng/L	P404389	MS
		Oxyfluorfen**	0.15	U	ng/L	P404389	
		Parathion Ethyl	0.24	U	ng/L	P404389	
		Parathion Methyl	0.54	U	ng/L	P404389	
		Pendimethalin	0.98	U	ng/L	P404389	
		Phorate	0.51	U	ng/L	P404389	
		Prodiamine**	0.17	U	ng/L	P404389	
		Prometon	0.88	U	ng/L	P404389	
		Prometryn	0.20	U	ng/L	P404389	
		Pronamide**	0.15	U	ng/L	P404389	
		Propiconazole**	0.49	U	ng/L	P404389	
		Pyriproxyfen**	0.12	U	ng/L	P404389	
		Simazine	0.49	U	ng/L	P404389	
		Sulfentrazone**	0.49	U	ng/L	P404389	
		Tebuconazole**	0.49	U	ng/L	P404389	
		Terbufos	0.098	U	ng/L	P404389	
		Terbuthylazine	0.41	U	ng/L	P404389	

Ref. Method and Comment:

EPA 8270E: Sample expired for preparation for some analytes due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P404421

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Manganese	1.0	U	ug/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P404421

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	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
Copper	0.40	U	ug/L
Lead	0.20	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: P404269

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	0.50	U	ng/L
Chlorothalonil	0.50	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404269

Component	Result	Code	Units
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	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	0.10	U	ng/L
Dichlobenil	0.10	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
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404269

Component	Result	Code	Units
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P404389

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
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	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404389

Component	Result	Code	Units
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404389

Component	Result	Code	Units
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	3.2	U	ng/L
Metribuzin	3.2	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
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	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
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
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404625

Component	Result	Code	Units
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P404269

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: P404244

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	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
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P404276

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: P404483

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 200.7 Rev. 4.4

Batch ID: P404421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	100		P	85 - 115
Calcium	104		P	85 - 115
Iron	106		P	85 - 115
Magnesium	106		P	85 - 115
Manganese	99.7		P	85 - 115
Potassium	99.9		P	85 - 115
Sodium	102		P	85 - 115
Zinc	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P404421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.4		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	93.4		P	85 - 115
Beryllium	93.1		P	85 - 115
Boron	96.8		P	85 - 115
Cadmium	94.9		P	85 - 115
Chromium	93.2		P	85 - 115
Copper	94.2		P	85 - 115
Lead	97.0		P	85 - 115
Nickel	94.5		P	85 - 115
Selenium	96.6		P	85 - 115
Silver	100		P	85 - 115
Thallium	97.2		P	85 - 115

Reference Method: EPA 8270E

Batch ID: P404269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.4	29.8	P/P	20 - 83.0
Alpha-BHC	88.2	84.2	P/P	74 - 108
Alpha-Chlordane	83.2	64.7	P/P	53 - 109
Beta-BHC	103	99.3	P/P	64 - 139
Beta-Cyfluthrin	96.0	71.9	P/P	27 - 171
Bifenthrin	78.3	57.2	P/P	20 - 124
Chlorothalonil	116	115	P/P	20 - 182
Cis-Nonachlor	77.1	62.3	P/P	46 - 110
Cypermethrin	90.5	71.1	P/P	35 - 160
Dacthal	94.2	83.2	P/P	70 - 115
DDD-p,p'	80.7	64.3	P/P	51 - 108
DDE-p,p'	85.0	67.3	P/P	51 - 104
Delta-BHC	108	100	P/P	73 - 146
Deltamethrin	94.9	71.4	P/P	20 - 190
Dichlobenil	81.4	79.3	P/P	30 - 100
Dicofol	78.5	63.5	P/P	52 - 110
Dieldrin	85.6	71.2	P/P	57 - 111
Endosulfan I	81.9	68.7	P/P	61 - 106
Endosulfan II	81.7	71.5	P/P	57 - 122
Endosulfan Sulfate	92.8	85.3	P/P	58 - 122
Endrin	77.9	66.6	P/P	34 - 125

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P404269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Aldehyde	75.3	63.9	P/P	40 - 120
Endrin Ketone	86.4	77.5	P/P	51 - 138
Esfenvalerate	93.2	71.4	P/P	20 - 193
Ethalfuralin	73.8	62.6	P/P	51 - 99.0
Fenpropathrin	83.0	64.1	P/P	40 - 116
Gamma-BHC	98.6	88.5	P/P	74 - 116
Gamma-Chlordane	81.4	63.5	P/P	49 - 105
Heptachlor	70.2	55.0	P/P	45 - 98.0
Heptachlor Epoxide	83.4	70.0	P/P	61 - 106
Hexachlorobenzene	75.6	61.5	P/P	41 - 96.0
Kepone	86.2	73.8	P/P	27 - 179
Lambda-Cyhalothrin	93.4	66.4	P/P	20 - 199
Methoprene	87.1	60.2	P/P	50 - 150
Methoxychlor	86.0	70.1	P/P	61 - 111
MGK-264	76.6	57.0	P/P	20 - 124
Mirex	63.6	48.3	P/P	20 - 199
Oxychlordane	84.6	71.7	P/P	50 - 150
Permethrin	104	83.6	P/P	31 - 155
Phenothrin	61.6	35.5	P/P	20 - 100
Piperonyl Butoxide	87.8	76.8	P/P	20 - 144
Prallethrin	67.1	49.4	P/P	20 - 103
Tau-Fluvalinate	80.3	59.5	P/P	24 - 133
Tetramethrin	78.7	45.9	P/P	20 - 116
Trans-Nonachlor	78.4	61.9	P/P	49 - 105
Triclosan Methyl	90.0	71.6	P/P	60 - 111
Trifluralin	76.8	63.4	P/P	53 - 97.0

Reference Method: EPA 8270E

Batch ID: P404389

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	105	98.2	P/P	70 - 121
Alachlor	93.1	90.0	P/P	70 - 119
Ametryn	99.2	102	P/P	61 - 135
Atrazine	97.0	92.3	P/P	76 - 123
Atrazine Desethyl	67.4	69.3	P/P	35 - 140
Azinphos Methyl	132	129	P/P	57 - 163
Azoxystrobin	93.5	97.7	P/P	43 - 231
Bromacil	74.4	78.3	P/P	42 - 123
Butylate	47.6	37.8	P/P	34 - 92.0
Caffeine	96.9	110	P/P	70 - 130
Carbophenothion	93.0	101	P/P	61 - 121
Carfentrazone Ethyl	107	104	P/P	62 - 139
Chlorpyrifos Ethyl	78.0	87.1	P/P	67 - 121
Chlorpyrifos Methyl	83.8	89.6	P/P	67 - 120
Cyanazine	114	106	P/P	20 - 226
Demeton	78.8	76.8	P/P	35 - 125
Diazinon	101	94.7	P/P	70 - 122
Difenoconazole	130	128	P/P	56 - 186
Dimethenamid	85.1	77.6	P/P	67 - 119
Disulfoton	72.1	82.3	P/P	47 - 120
Dithiopyr	83.0	90.0	P/P	67 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P404389

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	49.3	48.3	P/P	33 - 90.0
Ethion	81.0	76.4	P/P	40 - 133
Ethoprop	86.9	83.7	P/P	61 - 121
Fenamiphos	81.9	98.1	P/P	31 - 139
Fenbuconazole	63.9	63.2	F/F	66 - 141
Fipronil	103	102	P/P	62 - 129
Fipronil Desulfinyl	108	105	P/P	59 - 126
Fipronil Sulfide	70.9	85.6	P/P	63 - 117
Fipronil Sulfone	75.4	93.4	P/P	57 - 117
Fluazifop-P-butyl	107	101	P/P	63 - 124
Fludioxonil	97.2	93.2	P/P	63 - 123
Flumioxazin	87.5	92.9	P/P	34 - 245
Flutolanil	80.9	89.1	P/P	56 - 131
Fluxapyroxad	97.8	93.0	P/P	57 - 117
Fonofos	79.5	82.0	P/P	61 - 116
Hexazinone	81.3	84.1	P/P	55 - 138
Imazalil	126	120	P/P	33 - 143
Iprodione	98.7	96.8	P/P	59 - 118
Malathion	88.5	102	P/P	62 - 138
Metalaxyl	96.9	94.7	P/P	24 - 147
Metolachlor	95.9	94.6	P/P	68 - 118
Metribuzin	101	103	P/P	20 - 239
Mevinphos	75.8	78.4	P/P	46 - 124
Molinate	67.4	66.6	P/P	46 - 100
Myclobutanil	95.4	94.5	P/P	32 - 149
Naled	30.8	31.9	F/F	32 - 95.0
Norflurazon	80.3	91.4	P/P	57 - 127
Oxadiazon	81.0	82.9	P/P	63 - 118
Oxyfluorfen	104	94.9	P/P	69 - 137
Parathion Ethyl	84.1	84.7	P/P	70 - 113
Parathion Methyl	98.5	92.3	P/P	71 - 130
Pendimethalin	73.3	70.8	P/P	55 - 118
Phorate	73.8	75.3	P/P	46 - 125
Prodiamine	42.3	38.7	P/P	20 - 141
Prometon	86.3	83.3	P/P	54 - 122
Prometryn	83.3	90.5	P/P	66 - 124
Pronamide	102	97.2	P/P	79 - 122
Propiconazole	76.1	86.7	P/P	61 - 126
Pyriproxyfen	89.0	82.6	P/P	52 - 131
Simazine	87.0	94.0	P/P	75 - 128
Sulfentrazone	101	94.2	P/P	20 - 132
Tebuconazole	67.7	64.8	P/P	20 - 116
Terbufos	95.6	98.8	P/P	61 - 117
Terbuthylazine	103	98.7	P/P	74 - 116

Reference Method: EPA 8270E

Batch ID: P404625

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	85.3	88.2	P/P	53 - 109
DDT-p,p'	84.5	89.3	P/P	52 - 107
Dieldrin	90.4	92.2	P/P	57 - 111

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P404625

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-Chlordane	81.1	84.1	P/P	49 - 105
Heptachlor Epoxide	82.4	87.0	P/P	61 - 106

Reference Method: EPA 8276

Batch ID: P404269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	88.3	76.8	P/P	56 - 117
Toxaphene	79.7	71.8	P/P	45 - 116

Reference Method: EPA 8321B

Batch ID: P404244

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.0		P	40 - 150
2,4,5-T	110		P	40 - 150
Acetaminophen	77.8		P	30 - 150
Acetamiprid	86.7		P	40 - 150
Afidopyropen	74.5		P	40 - 150
Bentazon	96.4		P	30 - 150
Benzovindiflupyr	87.5		P	40 - 150
Carbamazepine	87.9		P	40 - 150
Clothianidin	79.5		P	40 - 150
Dinotefuran	87.3		P	40 - 150
Diuron	76.7		P	40 - 150
Fenuron	88.9		P	40 - 150
Fluridone	82.5		P	40 - 150
Hydrocodone	90.9		P	40 - 150
Ibuprofen	82.1		P	40 - 150
Imazapyr	86.4		P	40 - 150
Imidacloprid	93.2		P	40 - 150
Linuron	83.0		P	40 - 150
Mandestrobin	83.2		P	40 - 150
MCPP	113		P	40 - 150
Naproxen	99.4		P	40 - 150
Primidone	101		P	40 - 150
Pyraclostrobin	78.2		P	40 - 150
Thiamethoxam	93.0		P	40 - 150
Tolfenpyrad	47.7		P	30 - 150
Triclopyr	102		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P404276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	79.8		P	40 - 150
AMPA	92.7		P	40 - 160
Endothall	69.3		P	40 - 150
Glufosinate	97.9		P	40 - 160
Glyphosate	88.3		P	40 - 160
Sucralose	66.8		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P404483

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	101		P	40 - 150
Aldicarb	50.9		P	30 - 150
Aldicarb Sulfone	103		P	40 - 150
Aldicarb Sulfoxide	120		P	40 - 150
Carbaryl	97.3		P	40 - 150
Carbofuran	101		P	40 - 150
Methiocarb	77.7		P	40 - 150
Methomyl	103		P	40 - 150
Oxamyl	102		P	40 - 150
Propoxur	99.8		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P404421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278649	Barium	101	102	P/P	80 - 120
2278649	Calcium	101	103	P/P	80 - 120
2278649	Iron	105	107	P/P	80 - 120
2278649	Magnesium	104	107	P/P	80 - 120
2278649	Manganese	99.9	100	P/P	80 - 120
2278649	Potassium	98.0	99.9	P/P	80 - 120
2278649	Sodium	96.1	101	P/P	80 - 120
2278649	Zinc	101	102	P/P	80 - 120
2278895	Barium	100		P	80 - 120
2278895	Calcium	101		P	80 - 120
2278895	Iron	105		P	80 - 120
2278895	Magnesium	99.8		P	80 - 120
2278895	Manganese	98.6		P	80 - 120
2278895	Potassium	98.7		P	80 - 120
2278895	Sodium	99.0		P	80 - 120
2278895	Zinc	99.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P404421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278649	Aluminum	98.3	101	P/P	80 - 120
2278649	Antimony	99.5	101	P/P	80 - 120
2278649	Arsenic	93.2	95.4	P/P	80 - 120
2278649	Beryllium	93.4	93.7	P/P	80 - 120
2278649	Boron	94.6	97.0	P/P	80 - 120
2278649	Cadmium	94.5	95.1	P/P	80 - 120
2278649	Chromium	94.7	96.8	P/P	80 - 120
2278649	Copper	96.2	97.8	P/P	80 - 120
2278649	Lead	98.0	98.6	P/P	80 - 120
2278649	Nickel	96.1	97.9	P/P	80 - 120
2278649	Selenium	97.2	98.6	P/P	80 - 120
2278649	Silver	98.7	101	P/P	80 - 120
2278649	Thallium	99.1	102	P/P	80 - 120
2278895	Aluminum	92.8		P	80 - 120
2278895	Antimony	97.8		P	80 - 120
2278895	Arsenic	92.1		P	80 - 120
2278895	Beryllium	94.6		P	80 - 120
2278895	Boron	95.7		P	80 - 120
2278895	Cadmium	93.2		P	80 - 120
2278895	Chromium	93.1		P	80 - 120
2278895	Copper	93.0		P	80 - 120
2278895	Lead	96.4		P	80 - 120
2278895	Nickel	93.6		P	80 - 120
2278895	Selenium	95.6		P	80 - 120
2278895	Silver	99.4		P	80 - 120
2278895	Thallium	99.6		P	80 - 120

Reference Method: EPA 8270E

Batch ID: P404269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P404269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278749	Aldrin	38.8	46.1	P/P	10 - 94.0
2278749	Alpha-BHC	82.3	84.5	P/P	71 - 108
2278749	Alpha-Chlordane	62.5	68.5	P/P	42 - 115
2278749	Beta-BHC	99.2	99.7	P/P	56 - 161
2278749	Beta-Cyfluthrin	77.8	81.1	P/P	46 - 190
2278749	Bifenthrin	56.3	58.6	P/P	19 - 126
2278749	Chlorothalonil	107	112	P/P	10 - 262
2278749	Cis-Nonachlor	59.9	66.5	P/P	44 - 112
2278749	Cypermethrin	75.6	76.4	P/P	40 - 178
2278749	Dacthal	83.7	87.4	P/P	60 - 119
2278749	DDD-p,p'	64.2	67.8	P/P	40 - 114
2278749	DDE-p,p'	62.3	65.5	P/P	22 - 125
2278749	Delta-BHC	98.3	98.6	P/P	64 - 174
2278749	Deltamethrin	51.7	86.1	P/P	10 - 227
2278749	Dichlobenil	80.6	82.2	P/P	20 - 99.0
2278749	Dicofol	63.0	65.7	P/P	43 - 115
2278749	Dieldrin	66.8	72.8	P/P	31 - 131
2278749	Endosulfan I	64.4	70.3	P/P	52 - 110
2278749	Endosulfan II	71.6	77.7	P/P	53 - 127
2278749	Endosulfan Sulfate	79.6	81.1	P/P	44 - 135
2278749	Endrin	63.8	69.4	P/P	36 - 122
2278749	Endrin Aldehyde	63.7	67.1	P/P	23 - 115
2278749	Endrin Ketone	83.1	82.2	P/P	46 - 147
2278749	Esfenvalerate	82.2	83.4	P/P	25 - 217
2278749	Ethalfuralin	60.0	66.3	P/P	46 - 99.0
2278749	Fenpropathrin	62.8	65.8	P/P	42 - 121
2278749	Gamma-BHC	86.5	88.9	P/P	63 - 131
2278749	Gamma-Chlordane	60.4	66.1	P/P	40 - 108
2278749	Heptachlor	52.5	57.0	P/P	38 - 98.0
2278749	Heptachlor Epoxide	65.8	73.4	P/P	39 - 124
2278749	Hexachlorobenzene	58.7	64.4	P/P	37 - 96.0
2278749	Kepone	63.2	51.7	P/P	10 - 216
2278749	Lambda-Cyhalothrin	70.3	73.9	P/P	21 - 220
2278749	Methoprene	59.1	64.0	P/P	50 - 170
2278749	Methoxychlor	69.3	75.9	P/P	56 - 118
2278749	MGK-264	71.8	81.5	P/P	28 - 125
2278749	Mirex	45.4	52.0	P/P	10 - 203
2278749	Oxychlordane	63.8	68.3	P/P	50 - 170
2278749	Permethrin	129	82.6	P/P	42 - 173
2278749	Phenothrin	51.8	54.7	P/P	10 - 140
2278749	Piperonyl Butoxide	85.0	85.4	P/P	10 - 158
2278749	Prallethrin	58.8	70.6	P/P	19 - 119
2278749	Tau-Fluvalinate	67.4	67.0	P/P	27 - 164
2278749	Tetramethrin	80.2	81.0	P/P	16 - 130
2278749	Trans-Nonachlor	60.2	64.2	P/P	43 - 105
2278749	Triclosan Methyl	69.6	75.0	P/P	50 - 113
2278749	Trifluralin	58.6	65.3	P/P	48 - 98.0

Reference Method: EPA 8270E
 Batch ID: P404389

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

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P404389

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2279591	Acetochlor	78.2	92.6	P/P	66 - 122
2279591	Alachlor	74.4	78.5	P/P	65 - 122
2279591	Ametryn	91.2	93.7	P/P	45 - 173
2279591	Atrazine	73.0	82.8	P/P	70 - 134
2279591	Atrazine Desethyl	54.6	64.7	P/P	25 - 150
2279591	Azinphos Methyl	165	133	P/P	44 - 174
2279591	Azoxystrobin	90.6	95.9	P/P	10 - 268
2279591	Bromacil	70.8	80.3	P/P	31 - 145
2279591	Butylate	50.2	47.7	P/P	15 - 97.0
2279591	Caffeine	113	108	P/P	70 - 130
2279591	Carbophenothion	90.1	85.2	P/P	42 - 129
2279591	Carfentrazone Ethyl	82.2	88.9	P/P	62 - 145
2279591	Chlorpyrifos Ethyl	111	108	P/P	60 - 124
2279591	Chlorpyrifos Methyl	101	101	P/P	66 - 119
2279591	Cyanazine	81.4	97.1	P/P	17 - 225
2279591	Demeton	121	118	P/P	36 - 142
2279591	Diazinon	82.8	97.8	P/P	70 - 128
2279591	Difenoconazole	62.8	67.3	P/P	33 - 222
2279591	Dimethenamid	67.6	77.7	P/P	54 - 125
2279591	Disulfoton	89.3	79.1	P/P	49 - 133
2279591	Dithiopyr	76.8	89.9	P/P	55 - 123
2279591	EPTC	42.7	43.9	P/P	19 - 91.0
2279591	Ethion	101	98.3	P/P	13 - 143
2279591	Ethoprop	92.7	94.1	P/P	49 - 144
2279591	Fenamiphos	99.9	96.3	P/P	32 - 136
2279591	Fenbuconazole	147	60.4	P/F	73 - 148
2279591	Fipronil Desulfinyl	69.3	84.2	P/P	49 - 127
2279591	Fluazifop-P-butyl	70.9	82.1	P/P	67 - 129
2279591	Fludioxonil	70.1	89.6	P/P	61 - 126
2279591	Flumioxazin	232	254	P/P	38 - 279
2279591	Flutolanil	57.1	69.8	P/P	55 - 136
2279591	Fluxapyroxad	87.4	90.9	P/P	33 - 140
2279591	Fonofos	84.7	89.2	P/P	58 - 125
2279591	Hexazinone	96.6	97.7	P/P	57 - 148
2279591	Imazalil	67.6	84.7	P/P	10 - 221
2279591	Iprodione	96.7	96.6	P/P	32 - 140
2279591	Malathion	122	88.3	P/P	52 - 138
2279591	Metalaxyl	65.7	77.8	P/P	46 - 134
2279591	Metolachlor	76.4	92.2	P/P	58 - 122
2279591	Metribuzin	95.9	101	P/P	16 - 272
2279591	Mevinphos	108	107	P/P	45 - 140
2279591	Molinate	67.4	69.6	P/P	41 - 103
2279591	Myclobutanil	78.2	90.8	P/P	60 - 134
2279591	Naled	35.1	35.1	P/P	20 - 113
2279591	Norflurazon	67.4	75.1	P/P	51 - 123
2279591	Oxadiazon	36.0	50.9	F/P	44 - 125
2279591	Oxyfluorfen	81.7	94.6	P/P	66 - 176
2279591	Parathion Ethyl	87.2	94.3	P/P	57 - 132
2279591	Parathion Methyl	102	103	P/P	59 - 156
2279591	Pendimethalin	82.3	85.5	P/P	59 - 129
2279591	Phorate	103	115	P/P	47 - 136
2279591	Prodiamine	88.6	108	P/P	10 - 159

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P404389

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2279591	Prometon	79.1	92.2	P/P	59 - 127
2279591	Prometryn	70.1	77.5	P/P	59 - 129
2279591	Pronamide	75.3	84.8	P/P	65 - 145
2279591	Propiconazole	86.8	100	P/P	28 - 165
2279591	Pyriproxyfen	38.1	41.7	P/P	21 - 180
2279591	Simazine	67.8	74.3	P/P	63 - 147
2279591	Tebuconazole	93.2	112	P/P	10 - 117
2279591	Terbufos	117	118	P/P	61 - 131
2279591	Terbutylazine	75.6	83.9	P/P	62 - 126

Reference Method: EPA 8270E

Batch ID: P404625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278731	Alpha-Chlordane	67.5	69.7	P/P	42 - 115
2278731	DDT-p,p'	81.3	81.3	P/P	39 - 110
2278731	Dieldrin	67.8	67.4	P/P	31 - 131
2278731	Gamma-Chlordane	68.2	71.1	P/P	40 - 108
2278731	Heptachlor Epoxide	66.2	69.4	P/P	39 - 124

Reference Method: EPA 8276

Batch ID: P404269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278677	Chlordane	81.7	77.0	P/P	47 - 128
2278677	Toxaphene	83.6	79.7	P/P	11 - 163

Reference Method: EPA 8321B

Batch ID: P404244

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277943	2,4-D	152	157	F/F	40 - 150
2277943	2,4,5-T	128	129	P/P	40 - 150
2277943	Acetaminophen	122	123	P/P	30 - 150
2277943	Acetamiprid	105	106	P/P	40 - 150
2277943	Afidopyropen	75.3	86.0	P/P	40 - 150
2277943	Bentazon	94.4	88.5	P/P	30 - 150
2277943	Benzovindiflupyr	87.9	82.7	P/P	40 - 150
2277943	Carbamazepine	111	119	P/P	40 - 150
2277943	Clothianidin	111	120	P/P	40 - 150
2277943	Dinotefuran	132	132	P/P	40 - 150
2277943	Diuron	93.7	85.4	P/P	40 - 150
2277943	Fenuron	98.0	92.7	P/P	40 - 150
2277943	Fluridone	83.9	84.5	P/P	40 - 150
2277943	Hydrocodone	117	104	P/P	40 - 150
2277943	Ibuprofen	88.2	69.0	P/P	40 - 150
2277943	Imazapyr	123	126	P/P	40 - 150
2277943	Imidacloprid	166	177	F/F	40 - 150
2277943	Linuron	73.5	84.0	P/P	40 - 150
2277943	Mandestrobin	95.7	95.5	P/P	40 - 150
2277943	MCPP	141	154	P/F	40 - 150
2277943	Naproxen	112	89.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P404244

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277943	Primidone	115	139	P/P	40 - 150
2277943	Pyraclostrobin	81.9	84.0	P/P	40 - 150
2277943	Thiamethoxam	167	166	F/F	40 - 150
2277943	Tolfenpyrad	57.3	56.5	P/P	30 - 150
2277943	Triclopyr	115	132	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P404276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278459	Acesulfame K	105	112	P/P	40 - 150
2278459	AMPA	96.6	94.8	P/P	40 - 160
2278459	Endothall	94.8	96.1	P/P	40 - 150
2278459	Glufosinate	101	103	P/P	40 - 160
2278459	Glyphosate	80.4	79.9	P/P	40 - 160
2278459	Sucralose	77.1	76.4	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P404483

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2279588	3-Hydroxycarbofuran	94.3	102	P/P	40 - 150
2279588	Aldicarb	76.0	70.7	P/P	30 - 150
2279588	Aldicarb Sulfone	107	108	P/P	40 - 150
2279588	Aldicarb Sulfoxide	44.4	45.1	P/P	40 - 150
2279588	Carbaryl	71.7	65.4	P/P	40 - 150
2279588	Carbofuran	79.1	84.8	P/P	40 - 150
2279588	Methiocarb	76.3	73.6	P/P	40 - 150
2279588	Methomyl	83.6	85.5	P/P	40 - 150
2279588	Oxamyl	90.7	94.3	P/P	40 - 150
2279588	Propoxur	71.0	75.9	P/P	40 - 150

Quality Assurance Report

Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P404421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278649	Barium	0.188	Spike	P	0 - 20
2278649	Calcium	1.36	Spike	P	0 - 20
2278649	Iron	1.78	Spike	P	0 - 20
2278649	Magnesium	1.80	Spike	P	0 - 20
2278649	Manganese	0.321	Spike	P	0 - 20
2278649	Potassium	1.76	Spike	P	0 - 20
2278649	Sodium	3.28	Spike	P	0 - 20
2278649	Zinc	0.763	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P404421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278649	Aluminum	2.56	Spike	P	0 - 20
2278649	Antimony	1.42	Spike	P	0 - 20
2278649	Arsenic	2.25	Spike	P	0 - 20
2278649	Beryllium	0.352	Spike	P	0 - 20
2278649	Boron	2.22	Spike	P	0 - 20
2278649	Cadmium	0.672	Spike	P	0 - 20
2278649	Chromium	2.20	Spike	P	0 - 20
2278649	Copper	1.56	Spike	P	0 - 20
2278649	Lead	0.542	Spike	P	0 - 20
2278649	Nickel	1.90	Spike	P	0 - 20
2278649	Selenium	1.35	Spike	P	0 - 20
2278649	Silver	2.07	Spike	P	0 - 20
2278649	Thallium	2.58	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P404269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278749	Aldrin	17.2	Spike	P	0 - 30
2278749	Alpha-BHC	2.66	Spike	P	0 - 30
2278749	Alpha-Chlordane	9.10	Spike	P	0 - 30
2278749	Beta-BHC	0.432	Spike	P	0 - 30
2278749	Beta-Cyfluthrin	4.14	Spike	P	0 - 30
2278749	Bifenthrin	4.02	Spike	P	0 - 30
2278749	Chlorothalonil	4.92	Spike	P	0 - 50
2278749	Cis-Nonachlor	10.5	Spike	P	0 - 30
2278749	Cypermethrin	1.06	Spike	P	0 - 30
2278749	Dacthal	4.36	Spike	P	0 - 30
2278749	DDD-p,p'	5.57	Spike	P	0 - 30
2278749	DDE-p,p'	4.97	Spike	P	0 - 30
2278749	Delta-BHC	0.280	Spike	P	0 - 30
2278749	Deltamethrin	50.0	Spike	F	0 - 30
2278749	Dichlobenil	2.02	Spike	P	0 - 30
2278749	Dicofol	4.24	Spike	P	0 - 30
2278749	Dieldrin	8.64	Spike	P	0 - 30
2278749	Endosulfan I	8.67	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P404269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278749	Endosulfan II	8.16	Spike	P	0 - 30
2278749	Endosulfan Sulfate	1.85	Spike	P	0 - 30
2278749	Endrin	8.40	Spike	P	0 - 30
2278749	Endrin Aldehyde	5.11	Spike	P	0 - 30
2278749	Endrin Ketone	1.17	Spike	P	0 - 30
2278749	Esfenvalerate	1.45	Spike	P	0 - 30
2278749	Ethalfuralin	9.88	Spike	P	0 - 30
2278749	Fenpropathrin	4.68	Spike	P	0 - 30
2278749	Gamma-BHC	2.71	Spike	P	0 - 30
2278749	Gamma-Chlordane	8.89	Spike	P	0 - 30
2278749	Heptachlor	8.16	Spike	P	0 - 30
2278749	Heptachlor Epoxide	10.9	Spike	P	0 - 30
2278749	Hexachlorobenzene	9.17	Spike	P	0 - 30
2278749	Kepone	19.9	Spike	P	0 - 30
2278749	Lambda-Cyhalothrin	4.99	Spike	P	0 - 30
2278749	Methoprene	7.90	Spike	P	0 - 30
2278749	Methoxychlor	9.11	Spike	P	0 - 30
2278749	MGK-264	12.6	Spike	P	0 - 30
2278749	Mirex	13.5	Spike	P	0 - 30
2278749	Oxychlordane	6.83	Spike	P	0 - 30
2278749	Permethrin	44.2	Spike	F	0 - 30
2278749	Phenothrin	5.48	Spike	P	0 - 30
2278749	Piperonyl Butoxide	0.466	Spike	P	0 - 30
2278749	Prallethrin	18.2	Spike	P	0 - 30
2278749	Tau-Fluvalinate	0.668	Spike	P	0 - 30
2278749	Tetramethrin	0.969	Spike	P	0 - 30
2278749	Trans-Nonachlor	6.50	Spike	P	0 - 30
2278749	Triclosan Methyl	7.49	Spike	P	0 - 30
2278749	Trifluralin	10.9	Spike	P	0 - 30
LFB	Aldrin	49.6	LCS	F	0 - 30
LFB	Alpha-BHC	4.63	LCS	P	0 - 30
LFB	Alpha-Chlordane	24.9	LCS	P	0 - 30
LFB	Beta-BHC	3.70	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	28.7	LCS	P	0 - 30
LFB	Bifenthrin	31.1	LCS	F	0 - 30
LFB	Chlorothalonil	0.421	LCS	P	0 - 50
LFB	Cis-Nonachlor	21.2	LCS	P	0 - 30
LFB	Cypermethrin	24.1	LCS	P	0 - 30
LFB	Dacthal	12.4	LCS	P	0 - 30
LFB	DDD-p,p'	22.6	LCS	P	0 - 30
LFB	DDE-p,p'	23.3	LCS	P	0 - 30
LFB	Delta-BHC	7.28	LCS	P	0 - 30
LFB	Deltamethrin	28.2	LCS	P	0 - 30
LFB	Dichlobenil	2.53	LCS	P	0 - 30
LFB	Dicofol	21.1	LCS	P	0 - 30
LFB	Dieldrin	18.3	LCS	P	0 - 30
LFB	Endosulfan I	17.6	LCS	P	0 - 30
LFB	Endosulfan II	13.2	LCS	P	0 - 30
LFB	Endosulfan Sulfate	8.45	LCS	P	0 - 30
LFB	Endrin	15.8	LCS	P	0 - 30
LFB	Endrin Aldehyde	16.4	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P404269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin Ketone	10.8	LCS	P	0 - 30
LFB	Esfenvalerate	26.4	LCS	P	0 - 30
LFB	Ethalfuralin	16.4	LCS	P	0 - 30
LFB	Fenpropathrin	25.6	LCS	P	0 - 30
LFB	Gamma-BHC	10.9	LCS	P	0 - 30
LFB	Gamma-Chlordane	24.8	LCS	P	0 - 30
LFB	Heptachlor	24.2	LCS	P	0 - 30
LFB	Heptachlor Epoxide	17.4	LCS	P	0 - 30
LFB	Hexachlorobenzene	20.6	LCS	P	0 - 30
LFB	Kepone	15.5	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	33.8	LCS	F	0 - 30
LFB	Methoprene	36.6	LCS	F	0 - 30
LFB	Methoxychlor	20.4	LCS	P	0 - 30
LFB	MGK-264	29.3	LCS	P	0 - 30
LFB	Mirex	27.3	LCS	P	0 - 30
LFB	Oxychlordane	16.5	LCS	P	0 - 30
LFB	Permethrin	22.1	LCS	P	0 - 30
LFB	Phenothrin	53.7	LCS	F	0 - 30
LFB	Piperonyl Butoxide	13.5	LCS	P	0 - 30
LFB	Prallethrin	30.4	LCS	F	0 - 30
LFB	Tau-Fluvalinate	29.8	LCS	P	0 - 30
LFB	Tetramethrin	52.5	LCS	F	0 - 30
LFB	Trans-Nonachlor	23.5	LCS	P	0 - 30
LFB	Triclosan Methyl	22.8	LCS	P	0 - 30
LFB	Trifluralin	19.1	LCS	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P404389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2279591	Acetochlor	16.9	Spike	P	0 - 30
2279591	Alachlor	5.38	Spike	P	0 - 30
2279591	Ametryn	2.71	Spike	P	0 - 30
2279591	Atrazine	8.21	Spike	P	0 - 30
2279591	Atrazine Desethyl	16.9	Spike	P	0 - 30
2279591	Azinphos Methyl	21.4	Spike	P	0 - 30
2279591	Azoxystrobin	5.75	Spike	P	0 - 30
2279591	Bromacil	12.6	Spike	P	0 - 30
2279591	Butylate	5.08	Spike	P	0 - 30
2279591	Caffeine	4.28	Spike	P	0 - 30
2279591	Carbophenothion	5.62	Spike	P	0 - 30
2279591	Carfentrazone Ethyl	7.92	Spike	P	0 - 30
2279591	Chlorpyrifos Ethyl	2.45	Spike	P	0 - 30
2279591	Chlorpyrifos Methyl	0.246	Spike	P	0 - 30
2279591	Cyanazine	17.6	Spike	P	0 - 30
2279591	Demeton	1.80	Spike	P	0 - 30
2279591	Diazinon	16.5	Spike	P	0 - 30
2279591	Difenoconazole	6.97	Spike	P	0 - 30
2279591	Dimethenamid	13.9	Spike	P	0 - 30
2279591	Disulfoton	12.1	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P404389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2279591	Dithiopyr	15.8	Spike	P	0 - 30
2279591	EPTC	2.67	Spike	P	0 - 30
2279591	Ethion	2.92	Spike	P	0 - 30
2279591	Ethoprop	1.54	Spike	P	0 - 30
2279591	Fenamiphos	3.63	Spike	P	0 - 30
2279591	Fenbuconazole	83.7	Spike	F	0 - 30
2279591	Fipronil	10.1	Spike	P	0 - 30
2279591	Fipronil Desulfinyl	11.5	Spike	P	0 - 30
2279591	Fipronil Sulfide	15.3	Spike	P	0 - 30
2279591	Fipronil Sulfone	14.5	Spike	P	0 - 30
2279591	Fluazifop-P-butyl	14.7	Spike	P	0 - 30
2279591	Fludioxonil	24.4	Spike	P	0 - 30
2279591	Flumioxazin	9.32	Spike	P	0 - 30
2279591	Flutolanil	20.1	Spike	P	0 - 30
2279591	Fluxapyroxad	3.82	Spike	P	0 - 30
2279591	Fonofos	5.14	Spike	P	0 - 30
2279591	Hexazinone	1.07	Spike	P	0 - 30
2279591	Imazalil	22.4	Spike	P	0 - 30
2279591	Iprodione	0.0905	Spike	P	0 - 30
2279591	Malathion	32.1	Spike	F	0 - 30
2279591	Metalaxyl	16.9	Spike	P	0 - 30
2279591	Metolachlor	18.8	Spike	P	0 - 30
2279591	Metribuzin	5.01	Spike	P	0 - 30
2279591	Mevinphos	0.940	Spike	P	0 - 30
2279591	Molinate	3.26	Spike	P	0 - 30
2279591	Myclobutanil	14.9	Spike	P	0 - 30
2279591	Naled	0.166	Spike	P	0 - 30
2279591	Norflurazon	10.8	Spike	P	0 - 30
2279591	Oxadiazon	11.2	Spike	P	0 - 30
2279591	Oxyfluorfen	14.6	Spike	P	0 - 30
2279591	Parathion Ethyl	7.74	Spike	P	0 - 30
2279591	Parathion Methyl	1.18	Spike	P	0 - 30
2279591	Pendimethalin	3.76	Spike	P	0 - 30
2279591	Phorate	11.5	Spike	P	0 - 30
2279591	Prodiamine	19.4	Spike	P	0 - 30
2279591	Prometon	15.2	Spike	P	0 - 30
2279591	Prometryn	10.1	Spike	P	0 - 30
2279591	Pronamide	11.8	Spike	P	0 - 30
2279591	Propiconazole	14.4	Spike	P	0 - 30
2279591	Pyriproxyfen	8.90	Spike	P	0 - 30
2279591	Simazine	7.67	Spike	P	0 - 30
2279591	Sulfentrazone	5.57	Spike	P	0 - 30
2279591	Tebuconazole	15.3	Spike	P	0 - 30
2279591	Terbufos	1.33	Spike	P	0 - 30
2279591	Terbutylazine	10.3	Spike	P	0 - 30
LFB	Acetochlor	6.67	LCS	P	0 - 30
LFB	Alachlor	3.47	LCS	P	0 - 30
LFB	Ametryn	2.33	LCS	P	0 - 30
LFB	Atrazine	4.97	LCS	P	0 - 30
LFB	Atrazine Desethyl	2.83	LCS	P	0 - 30
LFB	Azinphos Methyl	2.47	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P404389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Azoxystrobin	4.35	LCS	P	0 - 30
LFB	Bromacil	5.09	LCS	P	0 - 30
LFB	Butylate	22.9	LCS	P	0 - 30
LFB	Caffeine	13.0	LCS	P	0 - 30
LFB	Carbophenothion	8.12	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	3.29	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	11.0	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	6.66	LCS	P	0 - 30
LFB	Cyanazine	7.47	LCS	P	0 - 30
LFB	Demeton	2.55	LCS	P	0 - 30
LFB	Diazinon	6.79	LCS	P	0 - 30
LFB	Difenoconazole	1.16	LCS	P	0 - 30
LFB	Dimethenamid	9.15	LCS	P	0 - 30
LFB	Disulfoton	13.2	LCS	P	0 - 30
LFB	Dithiopyr	8.00	LCS	P	0 - 30
LFB	EPTC	1.97	LCS	P	0 - 30
LFB	Ethion	5.82	LCS	P	0 - 30
LFB	Ethoprop	3.79	LCS	P	0 - 30
LFB	Fenamiphos	17.9	LCS	P	0 - 30
LFB	Fenbuconazole	1.07	LCS	P	0 - 30
LFB	Fipronil	0.921	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	2.78	LCS	P	0 - 30
LFB	Fipronil Sulfide	18.7	LCS	P	0 - 30
LFB	Fipronil Sulfone	21.4	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	6.29	LCS	P	0 - 30
LFB	Fludioxonil	4.26	LCS	P	0 - 30
LFB	Flumioxazin	6.03	LCS	P	0 - 30
LFB	Flutolanil	9.68	LCS	P	0 - 30
LFB	Fluxapyroxad	5.11	LCS	P	0 - 30
LFB	Fonofos	3.13	LCS	P	0 - 30
LFB	Hexazinone	3.41	LCS	P	0 - 30
LFB	Imazalil	4.85	LCS	P	0 - 30
LFB	Iprodione	1.94	LCS	P	0 - 30
LFB	Malathion	13.9	LCS	P	0 - 30
LFB	Metalaxyl	2.38	LCS	P	0 - 30
LFB	Metolachlor	1.46	LCS	P	0 - 30
LFB	Metribuzin	1.60	LCS	P	0 - 30
LFB	Mevinphos	3.45	LCS	P	0 - 30
LFB	Molinate	1.15	LCS	P	0 - 30
LFB	Myclobutanil	0.879	LCS	P	0 - 30
LFB	Naled	3.37	LCS	P	0 - 30
LFB	Norflurazon	13.0	LCS	P	0 - 30
LFB	Oxadiazon	2.34	LCS	P	0 - 30
LFB	Oxyfluorfen	9.41	LCS	P	0 - 30
LFB	Parathion Ethyl	0.668	LCS	P	0 - 30
LFB	Parathion Methyl	6.43	LCS	P	0 - 30
LFB	Pendimethalin	3.56	LCS	P	0 - 30
LFB	Phorate	2.02	LCS	P	0 - 30
LFB	Prodiamine	8.81	LCS	P	0 - 30
LFB	Prometon	3.48	LCS	P	0 - 30
LFB	Prometryn	8.35	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P404389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Pronamide	4.95	LCS	P	0 - 30
LFB	Propiconazole	13.0	LCS	P	0 - 30
LFB	Pyriproxyfen	7.39	LCS	P	0 - 30
LFB	Simazine	7.71	LCS	P	0 - 30
LFB	Sulfentrazone	7.22	LCS	P	0 - 30
LFB	Tebuconazole	4.43	LCS	P	0 - 30
LFB	Terbufos	3.29	LCS	P	0 - 30
LFB	Terbutylazine	4.51	LCS	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P404625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278731	Alpha-Chlordane	3.16	Spike	P	0 - 30
2278731	DDT-p,p'	0.00192	Spike	P	0 - 30
2278731	Dieldrin	0.593	Spike	P	0 - 30
2278731	Gamma-Chlordane	4.24	Spike	P	0 - 30
2278731	Heptachlor Epoxide	4.74	Spike	P	0 - 30
LFB	Alpha-Chlordane	3.31	LCS	P	0 - 30
LFB	DDT-p,p'	5.62	LCS	P	0 - 30
LFB	Dieldrin	1.92	LCS	P	0 - 30
LFB	Gamma-Chlordane	3.63	LCS	P	0 - 30
LFB	Heptachlor Epoxide	5.45	LCS	P	0 - 30

Reference Method: EPA 8276

Batch ID: P404269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278677	Chlordane	5.86	Spike	P	0 - 30
2278677	Toxaphene	4.79	Spike	P	0 - 30
LFB	Chlordane	13.9	LCS	P	0 - 30
LFB	Toxaphene	10.5	LCS	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P404244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277943	2,4-D	3.02	Spike	P	0 - 30
2277943	2,4,5-T	0.588	Spike	P	0 - 30
2277943	Acetaminophen	0.885	Spike	P	0 - 30
2277943	Acetamiprid	1.65	Spike	P	0 - 30
2277943	Afidopyropen	13.3	Spike	P	0 - 30
2277943	Bentazon	6.47	Spike	P	0 - 30
2277943	Benzovindiflupyr	6.08	Spike	P	0 - 30
2277943	Carbamazepine	6.75	Spike	P	0 - 30
2277943	Clothianidin	7.96	Spike	P	0 - 30
2277943	Dinotefuran	0.175	Spike	P	0 - 30
2277943	Diuron	9.19	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P404244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277943	Fenuron	5.58	Spike	P	0 - 30
2277943	Fluridone	0.681	Spike	P	0 - 30
2277943	Hydrocodone	11.1	Spike	P	0 - 30
2277943	Ibuprofen	24.4	Spike	P	0 - 30
2277943	Imazapyr	1.72	Spike	P	0 - 30
2277943	Imidacloprid	6.11	Spike	P	0 - 30
2277943	Linuron	13.4	Spike	P	0 - 30
2277943	Mandestrobin	0.222	Spike	P	0 - 30
2277943	MCPP	8.82	Spike	P	0 - 30
2277943	Naproxen	23.2	Spike	P	0 - 30
2277943	Primidone	18.9	Spike	P	0 - 30
2277943	Pyraclostrobin	2.52	Spike	P	0 - 30
2277943	Thiamethoxam	0.807	Spike	P	0 - 30
2277943	Tolfenpyrad	1.34	Spike	P	0 - 30
2277943	Triclopyr	13.2	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P404276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278459	Acesulfame K	6.01	Spike	P	0 - 30
2278459	AMPA	1.90	Spike	P	0 - 30
2278459	Endothall	1.35	Spike	P	0 - 30
2278459	Glufosinate	1.93	Spike	P	0 - 30
2278459	Glyphosate	0.672	Spike	P	0 - 30
2278459	Sucralose	0.911	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P404483

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2279588	3-Hydroxycarbofuran	7.48	Spike	P	0 - 30
2279588	Aldicarb	7.29	Spike	P	0 - 30
2279588	Aldicarb Sulfone	0.513	Spike	P	0 - 30
2279588	Aldicarb Sulfoxide	1.44	Spike	P	0 - 30
2279588	Carbaryl	9.16	Spike	P	0 - 30
2279588	Carbofuran	7.01	Spike	P	0 - 30
2279588	Methiocarb	3.60	Spike	P	0 - 30
2279588	Methomyl	2.23	Spike	P	0 - 30
2279588	Oxamyl	3.86	Spike	P	0 - 30
2279588	Propoxur	6.70	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2278736
Field Sample ID: G5CE0153

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	69.6	P	30 - 160

Lab Sample ID: 2278737
Field Sample ID: G5CE0153

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	153	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	112	P	30 - 160
EPA 8321B	Diuron-d6	83.6	P	30 - 160
EPA 8321B	Endothall-d6	91.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.5	P	30 - 160
EPA 8321B	Primidone-d5	123	P	30 - 160
EPA 8321B	Sucralose-d6	80.7	P	30 - 160

Lab Sample ID: 2278738
Field Sample ID: FB_09272021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	92.6	P	30 - 160

Lab Sample ID: 2278739
Field Sample ID: FB_09272021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	105	P	30 - 160
EPA 8321B	Diuron-d6	94.6	P	30 - 160
EPA 8321B	Endothall-d6	84.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	110	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.3	P	30 - 160
EPA 8321B	Primidone-d5	98.6	P	30 - 160
EPA 8321B	Sucralose-d6	77.2	P	30 - 160

Lab Sample ID: 2278740
Field Sample ID: G5CE0153

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	88.6	P	29 - 123
EPA 8270E	Decachlorobiphenyl	95.4	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	67.5	P	24 - 97.0
EPA 8270E	Tetrachloro-m-xylene	77.6	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	77.8	P	29 - 92.0
EPA 8276	PCNB	85.5	P	43 - 134

Lab Sample ID: 2278741
Field Sample ID: G5CE0153

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	51.6	P	20 - 200

Quality Assurance Report Surrogates

Lab Sample ID: 2278741
Field Sample ID: G5CE0153

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	99.6	P	73 - 135
EPA 8270E	Terbufos-d10	104	P	58 - 130

Lab Sample ID: 2278742
Field Sample ID: FB_09272021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.8	P	29 - 123
EPA 8270E	Decachlorobiphenyl	63.4	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	78.7	P	24 - 97.0
EPA 8270E	Tetrachloro-m-xylene	61.2	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	56.1	P	29 - 92.0
EPA 8276	PCNB	64.1	P	43 - 134

Lab Sample ID: 2278743
Field Sample ID: FB_09272021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	57.5	P	20 - 200
EPA 8270E	Simazine-d10	91.6	P	73 - 135
EPA 8270E	Terbufos-d10	111	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A108043

Included Lab Sample IDs: 2278737, 2278739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	106	P/P	50 - 150
2,4,5-T	93.6	111	P/P	50 - 150
Acetaminophen	97.9	107	P/P	60 - 160
Acetamiprid	111	105	P/P	50 - 150
Afidopyropen	112	142	P/P	50 - 150
Bentazon	111	101	P/P	50 - 160
Benzovindiflupyr	108	109	P/P	50 - 150
Carbamazepine	108	106	P/P	60 - 150
Clothianidin	102	97.3	P/P	60 - 150
Dinotefuran	102	103	P/P	50 - 150
Diuron	102	104	P/P	60 - 160
Fenuron	104	99.8	P/P	60 - 150
Fluridone	99.2	109	P/P	60 - 160
Hydrocodone	105	107	P/P	60 - 150
Ibuprofen	123	125	P/P	50 - 160
Imazapyr	77.5	91.6	P/P	50 - 150
Imidacloprid	99.4	94.8	P/P	60 - 150
Linuron	102	127	P/P	60 - 150
Mandestrobin	109	114	P/P	50 - 150
MCPP	99.9	104	P/P	50 - 150
Naproxen	109	103	P/P	50 - 160
Primidone	135	115	P/P	60 - 150
Pyraclostrobin	101	107	P/P	60 - 150
Thiamethoxam	97.7	112	P/P	50 - 150
Tolfenpyrad	95.9	108	P/P	60 - 150
Triclopyr	104	110	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A108094

Included Lab Sample IDs: 2278737, 2278739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	89.8	92.8	P/P	60 - 160
AMPA	99.9	99.7	P/P	60 - 160
Glufosinate	112	111	P/P	60 - 160
Glufosinate	90.8	102	P/P	60 - 160
Glyphosate	93.7	87.8	P/P	60 - 160
Glyphosate	97.3	102	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A108115

Included Lab Sample IDs: 2278744, 2278745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	97.4	97.7	P/P	90 - 110
Calcium	102	102	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Manganese	101	102	P/P	90 - 110
Potassium	98.4	98.5	P/P	90 - 110
Sodium	99.6	99.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A108115

Included Lab Sample IDs: 2278744, 2278745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	102	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A108117

Included Lab Sample IDs: 2278737, 2278739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	81.1	80.3	P/P	60 - 160
Endothall	89.1	86.5	P/P	60 - 160
Sucralose	81.5	82.6	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A108124

Included Lab Sample IDs: 2278744, 2278745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.1	94.9	P/P	90 - 110
Antimony	101	99.6	P/P	90 - 110
Arsenic	95.1	93.2	P/P	90 - 110
Beryllium	94.3	92.8	P/P	90 - 110
Boron	97.5	95.4	P/P	90 - 110
Cadmium	95.4	94.2	P/P	90 - 110
Chromium	94.1	92.1	P/P	90 - 110
Copper	94.0	92.8	P/P	90 - 110
Lead	95.5	93.3	P/P	90 - 110
Nickel	94.6	92.8	P/P	90 - 110
Selenium	96.1	94.5	P/P	90 - 110
Silver	99.4	98.8	P/P	90 - 110
Thallium	98.7	96.8	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A108169

Included Lab Sample IDs: 2278740, 2278742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.2		P	80 - 120
Toxaphene	98.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A108214

Included Lab Sample IDs: 2278741, 2278743

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	106		P	80 - 120
Atrazine	97.9		P	80 - 120
Atrazine Desethyl	109		P	80 - 120
Azinphos Methyl	90.4		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A108214

Included Lab Sample IDs: 2278741, 2278743

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Butylate	97.8		P	80 - 120
Caffeine	98.7		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Cyanazine	96.1		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	98.3		P	80 - 120
Difenoconazole	95.2		P	80 - 120
Dimethenamid	100		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	99.2		P	80 - 120
EPTC	101		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	105		P	80 - 120
Fenamiphos	104		P	80 - 120
Fenbuconazole	95.8		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	106		P	80 - 120
Fluazifop-P-butyl	107		P	80 - 120
Fludioxonil	92.2		P	80 - 120
Flumioxazin	96.7		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	99.0		P	80 - 120
Fonofos	98.6		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	98.0		P	80 - 120
Iprodione	90.7		P	80 - 120
Malathion	95.8		P	80 - 120
Metaxyl	98.8		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	105		P	80 - 120
Mevinphos	105		P	80 - 120
Molinate	103		P	80 - 120
Myclobutanil	105		P	80 - 120
Naled	105		P	80 - 120
Norflurazon	97.0		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	100		P	80 - 120
Parathion Ethyl	104		P	80 - 120
Parathion Methyl	98.8		P	80 - 120
Pendimethalin	101		P	80 - 120
Phorate	112		P	80 - 120
Prodiamine	97.1		P	80 - 120
Prometon	95.3		P	80 - 120
Prometryn	98.2		P	80 - 120
Pronamide	89.0		P	80 - 120
Propiconazole	99.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A108214

Included Lab Sample IDs: 2278741, 2278743

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyriproxyfen	102		P	80 - 120
Simazine	91.4		P	80 - 120
Sulfentrazone	106		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	98.1		P	80 - 120
Terbutylazine	100		P	80 - 120

Reference Method: EPA 8270E

Run ID: A108219

Included Lab Sample IDs: 2278740, 2278742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-Chlordane	101		P	80 - 120
DDT-p,p'	96.6		P	80 - 120
Dieldrin	104		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor Epoxide	99.6		P	80 - 120

Reference Method: EPA 8321B

Run ID: A108255

Included Lab Sample IDs: 2278736, 2278738

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	97.8	102	P/P	60 - 150
Aldicarb	86.1	98.2	P/P	60 - 150
Aldicarb Sulfone	98.5	104	P/P	50 - 150
Aldicarb Sulfoxide	110	103	P/P	50 - 150
Carbaryl	80.4	97.4	P/P	60 - 150
Carbofuran	109	101	P/P	50 - 150
Methiocarb	91.2	95.1	P/P	50 - 150
Methomyl	97.8	98.9	P/P	50 - 150
Oxamyl	103	101	P/P	50 - 150
Propoxur	93.2	94.9	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A108357

Included Lab Sample IDs: 2278740, 2278742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.2		P	80 - 120
Alpha-BHC	96.8		P	80 - 120
Alpha-Chlordane	99.2		P	80 - 120
Beta-BHC	95.5		P	80 - 120
Beta-Cyfluthrin	92.2		P	80 - 120
Bifenthrin	95.0		P	80 - 120
Chlorothalonil	104		P	80 - 120
Cis-Nonachlor	94.2		P	80 - 120
Cypermethrin	91.8		P	80 - 120
Dacthal	99.6		P	80 - 120
DDD-p,p'	91.3		P	80 - 120
DDE-p,p'	99.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A108357

Included Lab Sample IDs: 2278740, 2278742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Delta-BHC	97.0		P	80 - 120
Deltamethrin	88.9		P	80 - 120
Dichlobenil	98.5		P	80 - 120
Dicofol	97.8		P	80 - 120
Dieldrin	94.1		P	80 - 120
Endosulfan I	96.1		P	80 - 120
Endosulfan II	94.9		P	80 - 120
Endosulfan Sulfate	94.4		P	80 - 120
Endrin	93.0		P	80 - 120
Endrin Aldehyde	95.4		P	80 - 120
Endrin Ketone	94.5		P	80 - 120
Esfenvalerate	91.9		P	80 - 120
Ethalfuralin	96.6		P	80 - 120
Fenpropathrin	96.0		P	80 - 120
Gamma-BHC	96.0		P	80 - 120
Gamma-Chlordane	98.8		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	97.4		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	68.1*		F	80 - 120
Lambda-Cyhalothrin	96.1		P	80 - 120
Methoprene	98.8		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	104		P	80 - 120
Mirex	90.9		P	80 - 120
Oxychlordane	98.9		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	98.4		P	80 - 120
Piperonyl Butoxide	94.8		P	80 - 120
Prallethrin	99.5		P	80 - 120
Tau-Fluvalinate	92.2		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	97.0		P	80 - 120
Trifluralin	94.6		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 SMP	MS
				LCS				
EPA 200.7 Rev. 4.4	Barium	100		101	102	100		0.188
	Calcium	104		101	103	101		1.36
	Iron	106		105	107	105		1.78
	Magnesium	106		104	107	99.8		1.80
	Manganese	99.7		99.9	100	98.6		0.321
	Potassium	99.9		98.0	99.9	98.7		1.76
	Sodium	102		96.1	101	99.0		3.28
	Zinc	100		101	102	99.1		0.763
EPA 200.8 Rev. 5.4	Aluminum	97.4		98.3	101	92.8		2.56
	Antimony	100		99.5	101	97.8		1.42
	Arsenic	93.4		93.2	95.4	92.1		2.25
	Beryllium	93.1		93.4	93.7	94.6		0.352
	Boron	96.8		94.6	97.0	95.7		2.22
	Cadmium	94.9		94.5	95.1	93.2		0.672
	Chromium	93.2		94.7	96.8	93.1		2.20
	Copper	94.2		96.2	97.8	93.0		1.56
	Lead	97.0		98.0	98.6	96.4		0.542
	Nickel	94.5		93.6	96.1	97.9		1.90
	Selenium	96.6		97.2	98.6	95.6		1.35
	Silver	100		98.7	101	99.4		2.07
	Thallium	97.2		99.1	102	99.6		2.58
EPA 8270E	Acetochlor	105	98.2	92.6	78.2	6.67		16.9
	Alachlor	93.1	90.0	78.5	74.4	3.47		5.38
	Aldrin	49.4	29.8	38.8	46.1	49.6		17.2
	Alpha-BHC	88.2	84.2	82.3	84.5	4.63		2.66
	Alpha-Chlordane	83.2	64.7	62.5	68.5	24.9		9.10
	Alpha-Chlordane	85.3	88.2	67.5	69.7	3.31		3.16
	Ametryn	99.2	102	93.7	91.2	2.33		2.71
	Atrazine	97.0	92.3	73.0	82.8	4.97		8.21
	Atrazine Desethyl	67.4	69.3	64.7	54.6	2.83		16.9
	Azinphos Methyl	132	129	165	133	2.47		21.4
	Azoxystrobin	93.5	97.7	95.9	90.6	4.35		5.75
	Beta-BHC	103	99.3	99.2	99.7	3.70		0.432
	Beta-Cyfluthrin	96.0	71.9	77.8	81.1	28.7		4.14
	Bifenthrin	78.3	57.2	56.3	58.6	31.1		4.02
	Bromacil	74.4	78.3	80.3	70.8	5.09		12.6
	Butylate	47.6	37.8	47.7	50.2	22.9		5.08
	Caffeine	96.9	110	108	113	13.0		4.28
	Carbophenothion	93.0	101	85.2	90.1	8.12		5.62
	Carfentrazone Ethyl	107	104	88.9	82.2	3.29		7.92
	Chlorothalonil	116	115	107	112	0.421		4.92
	Chlorpyrifos Ethyl	78.0	87.1	108	111	11.0		2.45
	Chlorpyrifos Methyl	83.8	89.6	101	101	6.66		0.246
	Cis-Nonachlor	77.1	62.3	59.9	66.5	21.2		10.5
	Cyanazine	114	106	97.1	81.4	7.47		17.6
	Cypermethrin	90.5	71.1	75.6	76.4	24.1		1.06
	Dacthal	94.2	83.2	83.7	87.4	12.4		4.36
	DDD-p,p'	80.7	64.3	64.2	67.8	22.6		5.57
	DDE-p,p'	85.0	67.3	62.3	65.5	23.3		4.97
	DDT-p,p'	84.5	89.3	81.3	81.3	5.62		0.0019
	Delta-BHC	108	100	98.3	98.6	7.28		0.280
	Deltamethrin	94.9	71.4	51.7	86.1	28.2		50.0
	Demeton	78.8	76.8	118	121	2.55		1.80
	Diazinon	101	94.7	97.8	82.8	6.79		16.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Dichlobenil	81.4	79.3	80.6	82.2	2.53	2.02
	Dicofol	78.5	63.5	63.0	65.7	21.1	4.24
	Dieldrin	85.6	71.2	66.8	72.8	18.3	8.64
	Dieldrin	90.4	92.2	67.8	67.4	1.92	0.593
	Difenoconazole	130	128	67.3	62.8	1.16	6.97
	Dimethenamid	85.1	77.6	77.7	67.6	9.15	13.9
	Disulfoton	72.1	82.3	79.1	89.3	13.2	12.1
	Dithiopyr	83.0	90.0	89.9	76.8	8.00	15.8
	Endosulfan I	81.9	68.7	64.4	70.3	17.6	8.67
	Endosulfan II	81.7	71.5	71.6	77.7	13.2	8.16
	Endosulfan Sulfate	92.8	85.3	79.6	81.1	8.45	1.85
	Endrin	77.9	66.6	63.8	69.4	15.8	8.40
	Endrin Aldehyde	75.3	63.9	63.7	67.1	16.4	5.11
	Endrin Ketone	86.4	77.5	83.1	82.2	10.8	1.17
	EPTC	49.3	48.3	43.9	42.7	1.97	2.67
	Esfenvalerate	93.2	71.4	82.2	83.4	26.4	1.45
	Ethalfuralin	73.8	62.6	60.0	66.3	16.4	9.88
	Ethion	81.0	76.4	98.3	101	5.82	2.92
	Ethoprop	86.9	83.7	94.1	92.7	3.79	1.54
	Fenamiphos	81.9	98.1	96.3	99.9	17.9	3.63
	Fenbuconazole	63.9	63.2	147	60.4	1.07	83.7
	Fenpropathrin	83.0	64.1	62.8	65.8	25.6	4.68
	Fipronil	103	102			0.921	10.1
	Fipronil Desulfinyl	108	105	84.2	69.3	2.78	11.5
	Fipronil Sulfide	70.9	85.6			18.7	15.3
	Fipronil Sulfone	75.4	93.4			21.4	14.5
	Fluazifop-P-butyl	107	101	82.1	70.9	6.29	14.7
	Fludioxonil	97.2	93.2	89.6	70.1	4.26	24.4
	Flumioxazin	87.5	92.9	254	232	6.03	9.32
	Flutolanil	80.9	89.1	69.8	57.1	9.68	20.1
	Fluxapyroxad	97.8	93.0	87.4	90.9	5.11	3.82
	Fonofos	79.5	82.0	89.2	84.7	3.13	5.14
	Gamma-BHC	98.6	88.5	86.5	88.9	10.9	2.71
	Gamma-Chlordane	81.4	63.5	60.4	66.1	24.8	8.89
	Gamma-Chlordane	81.1	84.1	68.2	71.1	3.63	4.24
	Heptachlor	70.2	55.0	57.0	52.5	24.2	8.16
	Heptachlor Epoxide	83.4	70.0	73.4	65.8	17.4	10.9
	Heptachlor Epoxide	82.4	87.0	66.2	69.4	5.45	4.74
	Hexachlorobenzene	75.6	61.5	64.4	58.7	20.6	9.17
	Hexazinone	81.3	84.1	97.7	96.6	3.41	1.07
	Imazalil	126	120	84.7	67.6	4.85	22.4
	Iprodione	98.7	96.8	96.7	96.6	1.94	0.0905
	Kepone	86.2	73.8	51.7	63.2	15.5	19.9
	Lambda-Cyhalothrin	93.4	66.4	73.9	70.3	33.8	4.99
	Malathion	88.5	102	122	88.3	13.9	32.1
	Metalaxyl	96.9	94.7	77.8	65.7	2.38	16.9
	Methoprene	87.1	60.2	64.0	59.1	36.6	7.90
	Methoxychlor	86.0	70.1	75.9	69.3	20.4	9.11
	Metolachlor	95.9	94.6	92.2	76.4	1.46	18.8
	Metribuzin	101	103	101	95.9	1.60	5.01
	Mevinphos	75.8	78.4	107	108	3.45	0.940
	MGK-264	76.6	57.0	81.5	71.8	29.3	12.6
	Mirex	63.6	48.3	52.0	45.4	27.3	13.5
	Molinate	67.4	66.6	69.6	67.4	1.15	3.26

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Myclobutanil	95.4	94.5	90.8	78.2	0.879	14.9
	Naled	30.8	31.9	35.1	35.1	3.37	0.166
	Norflurazon	80.3	91.4	75.1	67.4	13.0	10.8
	Oxadiazon	81.0	82.9	50.9	36.0	2.34	11.2
	Oxychlordane	84.6	71.7	68.3	63.8	16.5	6.83
	Oxyfluorfen	104	94.9	94.6	81.7	9.41	14.6
	Parathion Ethyl	84.1	84.7	94.3	87.2	0.668	7.74
	Parathion Methyl	98.5	92.3	103	102	6.43	1.18
	Pendimethalin	73.3	70.8	85.5	82.3	3.56	3.76
	Permethrin	104	83.6	129	82.6	22.1	44.2
	Phenothrin	61.6	35.5	54.7	51.8	53.7	5.48
	Phorate	73.8	75.3	115	103	2.02	11.5
	Piperonyl Butoxide	87.8	76.8	85.4	85.0	13.5	0.466
	Prallethrin	67.1	49.4	70.6	58.8	30.4	18.2
	Prodamine	42.3	38.7	88.6	108	8.81	19.4
	Prometon	86.3	83.3	79.1	92.2	3.48	15.2
	Prometryn	83.3	90.5	70.1	77.5	8.35	10.1
	Pronamide	102	97.2	75.3	84.8	4.95	11.8
	Propiconazole	76.1	86.7	86.8	100	13.0	14.4
	Pyriproxyfen	89.0	82.6	38.1	41.7	7.39	8.90
	Simazine	87.0	94.0	67.8	74.3	7.71	7.67
	Sulfentrazone	101	94.2			7.22	5.57
	Tau-Fluvalinate	80.3	59.5	67.0	67.4	29.8	0.668
	Tebuconazole	67.7	64.8	93.2	112	4.43	15.3
	Terbufos	95.6	98.8	117	118	3.29	1.33
	Terbuthylazine	103	98.7	75.6	83.9	4.51	10.3
	Tetramethrin	78.7	45.9	80.2	81.0	52.5	0.969
	Trans-Nonachlor	78.4	61.9	60.2	64.2	23.5	6.50
	Triclosan Methyl	90.0	71.6	69.6	75.0	22.8	7.49
	Trifluralin	76.8	63.4	58.6	65.3	19.1	10.9
EPA 8276	Chlordane	88.3	76.8	81.7	77.0	13.9	5.86
	Toxaphene	79.7	71.8	83.6	79.7	10.5	4.79
EPA 8321B	2,4-D	98.0		152	157		3.02
	2,4,5-T	110		128	129		0.588
	3-Hydroxycarbofuran	101		94.3	102		7.48
	Acesulfame K	79.8		105	112		6.01
	Acetaminophen	77.8		122	123		0.885
	Acetamiprid	86.7		105	106		1.65
	Afidopyropen	74.5		75.3	86.0		13.3
	Aldicarb	50.9		76.0	70.7		7.29
	Aldicarb Sulfone	103		107	108		0.513
	Aldicarb Sulfoxide	120		44.4	45.1		1.44
	AMPA	92.7		96.6	94.8		1.90
	Bentazon	96.4		94.4	88.5		6.47
	Benzovindiflupyr	87.5		87.9	82.7		6.08
	Carbamazepine	87.9		111	119		6.75
	Carbaryl	97.3		71.7	65.4		9.16
	Carbofuran	101		79.1	84.8		7.01
	Clothianidin	79.5		111	120		7.96
	Dinotefuran	87.3		132	132		0.175
	Diuron	76.7		93.7	85.4		9.19
	Endothall	69.3		94.8	96.1		1.35
	Fenuron	88.9		98.0	92.7		5.58
	Fluridone	82.5		83.9	84.5		0.681

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Glufosinate	97.9	101	103			1.93
	Glyphosate	88.3	80.4	79.9			0.672
	Hydrocodone	90.9	117	104			11.1
	Ibuprofen	82.1	88.2	69.0			24.4
	Imazapyr	86.4	123	126			1.72
	Imidacloprid	93.2	166	177			6.11
	Linuron	83.0	73.5	84.0			13.4
	Mandestrobin	83.2	95.7	95.5			0.222
	MCPP	113	141	154			8.82
	Methiocarb	77.7	76.3	73.6			3.60
	Methomyl	103	83.6	85.5			2.23
	Naproxen	99.4	112	89.1			23.2
	Oxamyl	102	90.7	94.3			3.86
	Primidone	101	115	139			18.9
	Propoxur	99.8	71.0	75.9			6.70
	Pyraclostrobin	78.2	81.9	84.0			2.52
	Sucralose	66.8	77.1	76.4			0.911
	Thiamethoxam	93.0	167	166			0.807
	Tolfenpyrad	47.7	57.3	56.5			1.34
	Triclopyr	102	115	132			13.2

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	2278744, 2278745
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2278744, 2278745
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2278740, 2278742
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2278741, 2278743
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2278740, 2278742
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2278736, 2278738
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2278737, 2278739
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2278744, 2278745

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	09/28/2021	10/01/2021 10:00	Emily M Philpot	10/01/2021 18:01	Josef B Mick	2278744
	09/28/2021	10/01/2021 10:00	Emily M Philpot	10/01/2021 18:08	Josef B Mick	2278745
EPA 200.8 Rev. 5.4	09/28/2021	10/01/2021 10:00	Emily M Philpot	10/01/2021 23:47	McKinley C Carter	2278744
	09/28/2021	10/01/2021 10:00	Emily M Philpot	10/01/2021 23:56	McKinley C Carter	2278745
EPA 8270E	09/28/2021	09/29/2021 08:00	Fe-Val Siddell	10/02/2021 01:00	Arthur Maknenko	2278740
	09/28/2021	09/29/2021 08:00	Fe-Val Siddell	10/02/2021 01:29	Arthur Maknenko	2278742
	09/28/2021	10/01/2021 08:00	Fe-Val Siddell	10/05/2021 15:12	Vandana T. Nagar	2278741
	09/28/2021	10/01/2021 08:00	Fe-Val Siddell	10/05/2021 15:38	Vandana T. Nagar	2278743
	09/28/2021	10/01/2021 08:00	Fe-Val Siddell	10/05/2021 18:35	Vandana T. Nagar	2278741
	09/28/2021	10/06/2021 11:30	Fe-Val Siddell	10/08/2021 00:45	Arthur Maknenko	2278740
	09/28/2021	10/06/2021 11:30	Fe-Val Siddell	10/08/2021 01:16	Arthur Maknenko	2278742
	09/28/2021	09/29/2021 08:00	Fe-Val Siddell	10/05/2021 06:39	Julie Wi	2278740
EPA 8276	09/28/2021	09/29/2021 08:00	Fe-Val Siddell	10/05/2021 07:34	Julie Wi	2278742
	09/28/2021	09/28/2021 14:00	Hoor Shaik	09/29/2021 07:12	Juyoung Kim	2278737
EPA 8321B	09/28/2021	09/28/2021 14:00	Hoor Shaik	09/29/2021 07:46	Juyoung Kim	2278739
	09/28/2021	09/28/2021 14:00	Hoor Shaik	09/29/2021 09:30	Juyoung Kim	2278737
	09/28/2021	09/30/2021 13:00	Juyoung Kim	09/30/2021 17:35	Juyoung Kim	2278739
	09/28/2021	09/30/2021 13:00	Juyoung Kim	10/01/2021 08:58	Juyoung Kim	2278737
	09/28/2021	09/30/2021 13:00	Juyoung Kim	10/01/2021 12:35	Manjita Shrestha	2278737
	09/28/2021	09/30/2021 13:00	Juyoung Kim	10/01/2021 12:50	Manjita Shrestha	2278739
	09/28/2021	10/04/2021 09:00	Hoor Shaik	10/09/2021 09:44	Juyoung Kim	2278736
	09/28/2021	10/04/2021 09:00	Hoor Shaik	10/09/2021 10:18	Juyoung Kim	2278738
	09/28/2021			10/01/2021 18:01	Josef B Mick	2278744
	09/28/2021			10/01/2021 18:08	Josef B Mick	2278745