

Chemical Analysis Report

SO-DIST-2022-06-03-01

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

Event Description: **2022 SMP: DeSoto Cricks**
Request ID: **RQ-2022-05-30-27**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: William Mullen

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 27-JUN-2022 13:40

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

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: Nutrients 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: Joshua Creek above Peace River

Collection Date/Time: 06/02/2022 09:50

Field ID: G3SD0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331696	EPA 8321B	Aldicarb	0.020	U	ug/L	P414737	
		Aldicarb Sulfone	0.0020	U	ug/L	P414737	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P414737	
		Carbaryl	0.0020	U	ug/L	P414737	
		Carbofuran	0.0020	U	ug/L	P414737	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P414737	
		Methiocarb	0.0020	U	ug/L	P414737	
		Methomyl	0.0020	U	ug/L	P414737	
		Oxamyl	0.0072	I	ug/L	P414737	
		Propoxur	0.0020	U	ug/L	P414737	
2331697		2,4-D	0.12		ug/L	P414735	
		Acesulfame K	0.10	U	ug/L	P414771	
		2,4,5-T	0.0040	U	ug/L	P414735	
		AMPA	1.0		ug/L	P414771	
		Acetaminophen	0.0080	U	ug/L	P414735	
		Acetamiprid	0.0020	U	ug/L	P414735	
		Endothall	0.25	U	ug/L	P414771	
		Glufosinate	0.10	U	ug/L	P414771	
		Glyphosate	1.9		ug/L	P414771	
		Afidopyropen	0.0020	U	ug/L	P414735	
		Bentazon	0.056		ug/L	P414735	
		Sucralose	0.15		ug/L	P414771	
		Benzovindiflupyr	0.0020	U	ug/L	P414735	
		Carbamazepine	0.0010	I	ug/L	P414735	
		Clothianidin	0.17		ug/L	P414735	
		Dinotefuran	0.0020	U	ug/L	P414735	
		Diuron	0.11		ug/L	P414735	
		Fenuron	0.032	U	ug/L	P414735	
		Fluridone	8.0E-04	U	ug/L	P414735	
		Imazapyr	0.0050	I	ug/L	P414735	
		Hydrocodone	0.0020	U	ug/L	P414735	
		Ibuprofen	0.020	U	ug/L	P414735	
		Imidacloprid	0.89		ug/L	P414735	
		Linuron	0.0040	U	ug/L	P414735	
		Mandestrobin	0.0020	U	ug/L	P414735	
		MCPP	0.0040	U	ug/L	P414735	
		Naproxen	0.0080	U	ug/L	P414735	
		Primidone	0.0040	U	ug/L	P414735	
		Pyraclostrobin	0.0020	U	ug/L	P414735	
		Silvex	0.0040	U	ug/L	P414735	
		Thiamethoxam	0.50		ug/L	P414735	
		Tolfenpyrad	0.0020	U	ug/L	P414735	
		Triclopyr	0.0040	U	ug/L	P414735	
2331701	EPA 8270E	Aldrin	0.70	U	ng/L	P414711	

Field ID: G3SD0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331701	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P414711	CCV
		Alpha-Chlordane	0.22	U	ng/L	P414711	
		PCB-1016	2.2	UJ	ng/L	P414711	
		Beta-BHC	0.11	U	ng/L	P414711	
		PCB-1221	2.2	U	ng/L	P414711	
		Beta-Cyfluthrin**	1.3	U	ng/L	P414711	
		PCB-1232	2.2	U	ng/L	P414711	
		Bifenthrin**	0.54	U	ng/L	P414711	
		PCB-1242	2.2	U	ng/L	P414711	
		PCB-1248	2.2	U	ng/L	P414711	
		Chlorothalonil	1.3	U	ng/L	P414711	
		PCB-1254	2.2	U	ng/L	P414711	
		Cis-Nonachlor**	0.22	U	ng/L	P414711	
		PCB-1260	2.2	U	ng/L	P414711	
		Cypermethrin	1.6	U	ng/L	P414711	
		Dacthal**	0.16	U	ng/L	P414711	
		DDD-p,p'	0.27	U	ng/L	P414711	
		DDE-p,p'	0.22	U	ng/L	P414711	
		DDT-p,p'	0.27	U	ng/L	P414711	
		Delta-BHC	0.43	U	ng/L	P414711	CCV, LCS, MS, RPD
		Deltamethrin**	1.3	U	ng/L	P414711	
		Dichlobenil**	0.27	U	ng/L	P414711	
		Dicofol	1.3	UJ	ng/L	P414711	
		Dieldrin	0.43	U	ng/L	P414711	
		Endosulfan I	0.43	U	ng/L	P414711	
		Endosulfan II	0.43	U	ng/L	P414711	
		Endosulfan Sulfate	0.32	U	ng/L	P414711	
		Endrin	0.43	U	ng/L	P414711	
		Endrin Aldehyde	0.81	U	ng/L	P414711	
		Endrin Ketone	0.43	U	ng/L	P414711	
		Esfenvalerate**	0.81	U	ng/L	P414711	
		Ethalfuralin**	0.16	U	ng/L	P414711	
		Fenpropathrin**	0.27	U	ng/L	P414711	
		Gamma-BHC	0.13	U	ng/L	P414711	
		Gamma-Chlordane	0.22	U	ng/L	P414711	
		Heptachlor	0.22	U	ng/L	P414711	
		Heptachlor Epoxide	0.27	U	ng/L	P414711	
		Hexachlorobenzene**	1.1	U	ng/L	P414711	
		Kepone**	5.4	U	ng/L	P414711	
		Lambda-Cyhalothrin**	0.81	U	ng/L	P414711	
		Methoprene**	0.81	U	ng/L	P414711	
		Methoxychlor	0.32	U	ng/L	P414711	
		MGK-264**	0.22	U	ng/L	P414711	
		Mirex	0.76	U	ng/L	P414711	

Field ID: G3SD0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331701	EPA 8270E	Oxychlordane**	0.32	U	ng/L	P414711	
		Permethrin	1.7	U	ng/L	P414711	
		Phenothrin**	0.97	U	ng/L	P414711	
		Piperonyl Butoxide**	0.34	I	ng/L	P414711	
		Prallethrin**	2.2	U	ng/L	P414711	
		Tau-Fluvalinate**	0.27	U	ng/L	P414711	
		Tetramethrin**	0.81	U	ng/L	P414711	
		Trans-Nonachlor**	0.22	U	ng/L	P414711	
		Triclosan Methyl**	0.16	U	ng/L	P414711	
		Trifluralin	0.22	U	ng/L	P414711	
		Chlordane	2.7	U	ng/L	P414711	
		Toxaphene	16	U	ng/L	P414711	
2331702	EPA 8270E	Oxybenzone**	10	U	ng/L	P414703	
		Acetochlor	0.26	UQ	ng/L	P415088	
		Octinoxate**	20	U	ng/L	P414703	
		Alachlor	0.26	UQ	ng/L	P415088	
		Avobenzone**	100	U	ng/L	P414703	
		Ametryn	0.62	UQ	ng/L	P415088	
		Atrazine	35	Q	ng/L	P415088	
		Atrazine Desethyl	1.6	UQ	ng/L	P415088	
		Azinphos Methyl	2.0	U	ng/L	P414703	
		Azoxystrobin**	3.5	Q	ng/L	P415088	
		Bromacil	220	Q	ng/L	P415088	
		Butylate	0.41	UQ	ng/L	P415088	
		Caffeine**	7.6	U	ng/L	P414703	
		Carbophenothion	0.20	U	ng/L	P414703	
		Carfentrazone Ethyl**	0.10	UQ	ng/L	P415088	
		Chlorfenapyr**	0.18	UQ	ng/L	P415088	
		Chlorpyrifos Ethyl	0.30	I	ng/L	P414703	
		Chlorpyrifos Methyl	0.051	U	ng/L	P414703	
		Coumaphos**	0.51	U	ng/L	P414703	
		Cyanazine	3.4	UQ	ng/L	P415088	
		Cyprodinil**	0.10	UQ	ng/L	P415088	
		Demeton	1.5	U	ng/L	P414703	
		Diazinon	0.19	I	ng/L	P414703	
		Difenoconazole**	0.62	UQ	ng/L	P415088	RPD
		Dimethenamid**	0.10	UQ	ng/L	P415088	
		Dimethomorph**	0.18	UQ	ng/L	P415088	RPD
		Disulfoton	0.51	U	ng/L	P414703	
		Dithiopyr**	0.18	UQ	ng/L	P415088	
		EPTC	1.3	UQ	ng/L	P415088	
		Ethion	0.15	U	ng/L	P414703	
		Ethoprop	0.10	U	ng/L	P414703	
		Etridiazole**	0.16	UQJ	ng/L	P415088	LCS
		Fenamiphos	0.51	U	ng/L	P414703	

Field ID: G3SD0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331702	EPA 8270E	Fenbuconazole**	1.5	Q	ng/L	P415088	
		Fipronil	0.26	UQ	ng/L	P415088	
		Fipronil Desulfinyl**	0.13	UQ	ng/L	P415088	
		Fipronil Sulfide	0.16	UQ	ng/L	P415088	
		Fipronil Sulfone	0.16	UQ	ng/L	P415088	
		Fluazifop-P-butyl**	0.10	UQ	ng/L	P415088	
		Fludioxonil**	0.13	UQ	ng/L	P415088	
		Flumioxazin**	1.8	UQ	ng/L	P415088	RPD
		Flutolanil**	2.9	Q	ng/L	P415088	
		Fluxapyroxad**	0.10	UQ	ng/L	P415088	RPD
		Fonofos	0.20	U	ng/L	P414703	
		Hexazinone	220	Q	ng/L	P415088	
		Imazalil**	0.78	UQ	ng/L	P415088	
		Iprodione**	0.62	UQ	ng/L	P415088	
		Loratadine**	0.10	UQ	ng/L	P415088	MS, RPD
		Malathion	0.35	U	ng/L	P414703	
		Metalaxyl	18	Q	ng/L	P415088	
		Metolachlor	65	Q	ng/L	P415088	
		Metribuzin	2.6	UQ	ng/L	P415088	
		Mevinphos	1.1	U	ng/L	P414703	
		Molinate	0.31	UQ	ng/L	P415088	
		Myclobutanil**	0.26	UQ	ng/L	P415088	
		Naled**	1.5	U	ng/L	P414703	RPD
		Napropamide**	0.41	UQ	ng/L	P415088	MS, RPD
		Norflurazon	500	Q	ng/L	P415088	
		Oxadiazon	0.49	IQ	ng/L	P415088	RPD
		Oxyfluorfen**	0.16	UQ	ng/L	P415088	
		Parathion Ethyl	0.25	U	ng/L	P414703	
		Parathion Methyl	0.56	U	ng/L	P414703	
		Pendimethalin	1.0	UQ	ng/L	P415088	
		Phenytol**	3.6	UQ	ng/L	P415088	MS, RPD
		Phorate	0.53	U	ng/L	P414703	
		Prodiamine**	0.18	UQ	ng/L	P415088	
		Prometon	0.93	UQ	ng/L	P415088	
		Prometryn	0.21	UQ	ng/L	P415088	
		Pronamide**	0.16	UQ	ng/L	P415088	
		Propanil**	0.13	UQ	ng/L	P415088	
		Propargite**	1.6	UQ	ng/L	P415088	RPD
		Propiconazole**	0.67	IQ	ng/L	P415088	
		Pyraflufen Ethyl**	0.26	UQ	ng/L	P415088	
		Pyridaben**	0.47	UQ	ng/L	P415088	
		Pyriproxyfen**	0.13	UQ	ng/L	P415088	RPD
		Simazine	0.52	UQ	ng/L	P415088	MS
		Stirophos**	0.13	U	ng/L	P414703	MS
		Sulfentrazone**	6.2	Q	ng/L	P415088	

Field ID: G3SD0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331702	EPA 8270E	Tebuconazole**	0.52	UQ	ng/L	P415088	RPD
		Terbufos	0.10	U	ng/L	P414703	
		Terbutylazine	0.44	UQ	ng/L	P415088	
		Thiobencarb**	0.62	UQ	ng/L	P415088	
		Triadimefon**	0.26	UQ	ng/L	P415088	

Ref. Method and Comment:

EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Sample expired for preparation for analytes associated with Simazine-d10 surrogate due to need for re-extraction. MS accuracy for multiple 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: Joshua Creek above CR760

Collection Date/Time: 06/02/2022 10:40

Field ID: G3SD0175

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331698	EPA 8321B	2,4-D	0.12		ug/L	P414735	
		Acesulfame K	0.10	U	ug/L	P414771	
		2,4,5-T	0.0040	U	ug/L	P414735	
		AMPA	1.0		ug/L	P414771	
		Acetaminophen	0.0080	U	ug/L	P414735	
		Acetamiprid	0.0020	U	ug/L	P414735	
		Endothall	0.25	U	ug/L	P414771	
		Glufosinate	0.10	U	ug/L	P414771	
		Glyphosate	1.7		ug/L	P414771	
		Afidopyropen	0.0020	U	ug/L	P414735	
		Bentazon	0.062		ug/L	P414735	
		Sucralose	0.13		ug/L	P414771	
		Benzovindiflupyr	0.0020	U	ug/L	P414735	
		Carbamazepine	0.0010	I	ug/L	P414735	
		Clothianidin	0.18		ug/L	P414735	
		Dinotefuran	0.0020	U	ug/L	P414735	
		Diuron	0.11		ug/L	P414735	
		Fenuron	0.032	U	ug/L	P414735	
		Fluridone	8.0E-04	U	ug/L	P414735	
		Imazapyr	0.0048	I	ug/L	P414735	
		Hydrocodone	0.0020	U	ug/L	P414735	
		Ibuprofen	0.020	U	ug/L	P414735	
		Imidacloprid	0.87		ug/L	P414735	
		Linuron	0.0040	U	ug/L	P414735	
		Mandestrobin	0.0020	U	ug/L	P414735	
		MCPP	0.0040	U	ug/L	P414735	
		Naproxen	0.0080	U	ug/L	P414735	
		Primidone	0.0040	U	ug/L	P414735	
		Pyraclostrobin	0.0020	U	ug/L	P414735	
		Silvex	0.0040	U	ug/L	P414735	
		Thiamethoxam	0.50		ug/L	P414735	
		Tolfenpyrad	0.0020	U	ug/L	P414735	
		Triclopyr	0.0040	U	ug/L	P414735	
2331703	EPA 8270E	Aldrin	0.67	U	ng/L	P414711	
		Alpha-BHC	0.10	U	ng/L	P414711	
		Alpha-Chlordane	0.21	U	ng/L	P414711	
		PCB-1016	2.1	UJ	ng/L	P414711	CCV
		Beta-BHC	0.10	U	ng/L	P414711	
		PCB-1221	2.1	U	ng/L	P414711	
		Beta-Cyfluthrin**	1.3	U	ng/L	P414711	
		PCB-1232	2.1	U	ng/L	P414711	
		Bifenthrin**	0.52	U	ng/L	P414711	
		PCB-1242	2.1	U	ng/L	P414711	
		Carbophenothion	0.93	U	ng/L	P414711	

Field ID: G3SD0175

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331703	EPA 8270E	PCB-1248	2.1	U	ng/L	P414711	CCV, LCS, MS, RPD
		Chlorothalonil	1.3	U	ng/L	P414711	
		PCB-1254	2.1	U	ng/L	P414711	
		Cis-Nonachlor**	0.21	U	ng/L	P414711	
		PCB-1260	2.1	U	ng/L	P414711	
		Cypermethrin	1.6	U	ng/L	P414711	
		Dacthal**	0.16	U	ng/L	P414711	
		DDD-p,p'	0.26	U	ng/L	P414711	
		DDE-p,p'	0.21	U	ng/L	P414711	
		DDT-p,p'	0.26	U	ng/L	P414711	
		Delta-BHC	0.41	U	ng/L	P414711	
		Deltamethrin**	1.3	U	ng/L	P414711	
		Dichlobenil**	0.26	U	ng/L	P414711	
		Dicofol	1.3	UJ	ng/L	P414711	
		Dieldrin	0.41	U	ng/L	P414711	
		Endosulfan I	0.41	U	ng/L	P414711	
		Endosulfan II	0.41	U	ng/L	P414711	
		Endosulfan Sulfate	0.31	U	ng/L	P414711	
		Endrin	0.41	U	ng/L	P414711	
		Endrin Aldehyde	0.78	U	ng/L	P414711	
		Endrin Ketone	0.41	U	ng/L	P414711	
		Esfenvalerate**	0.78	U	ng/L	P414711	
		Ethalfuralin**	0.16	U	ng/L	P414711	
		Fenpropathrin**	0.26	U	ng/L	P414711	
		Gamma-BHC	0.13	U	ng/L	P414711	
		Gamma-Chlordane	0.21	U	ng/L	P414711	
		Heptachlor	0.21	U	ng/L	P414711	
		Heptachlor Epoxide	0.26	U	ng/L	P414711	
		Hexachlorobenzene**	1.0	U	ng/L	P414711	
		Kepone**	5.2	U	ng/L	P414711	
		Lambda-Cyhalothrin**	0.78	U	ng/L	P414711	
		Methoprene**	0.78	U	ng/L	P414711	
		Methoxychlor	0.31	U	ng/L	P414711	
		MGK-264**	0.21	U	ng/L	P414711	
		Mirex	0.73	U	ng/L	P414711	
		Oxychlordane**	0.31	U	ng/L	P414711	
		Permethrin	1.7	U	ng/L	P414711	
		Phenothrin**	0.93	U	ng/L	P414711	
		Piperonyl Butoxide**	0.16	U	ng/L	P414711	
		Prallethrin**	2.1	U	ng/L	P414711	
		Tau-Fluvalinate**	0.26	U	ng/L	P414711	
		Tetramethrin**	0.78	U	ng/L	P414711	
		Trans-Nonachlor**	0.21	U	ng/L	P414711	
		Triclosan Methyl**	0.16	U	ng/L	P414711	

Field ID: G3SD0175

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331703	EPA 8270E	Trifluralin	0.21	U	ng/L	P414711	
	EPA 8276	Chlordane	2.6	U	ng/L	P414711	
		Toxaphene	16	U	ng/L	P414711	

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

Sample Location: Brandy Branch @ SR 70

Collection Date/Time: 06/02/2022 11:20

Field ID: G3SD0083

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331688	DEP SOP: NU-094-1	Color (true)**	47		PCU	P414727	
	EPA 180.1 Rev. 2.0	Turbidity	0.60	I	NTU	P414724	
	EPA 300.0 Rev. 2.1	Chloride	30		mg Cl/L	P415040	
		Sulfate	710		mg SO4/L	P415045	
	SM 2320 B-2011	Total Alkalinity	66		mg CaCO3/L	P415385	
	SM 2540 C-2011	TDS	1.18E+03		mg/L	P415284	
	SM 2540 D-2011	TSS	2	U	mg/L	P414896	
	SM 4500-F- C-2011	Fluoride	0.84		mg F/L	P415390	
2331689	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P415381	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P415354	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.49		mg N/L	P414944	
	EPA 365.1 Rev. 2.0	Total-P	0.35		mg P/L	P414864	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P414811	
2331699	EPA 8321B	Aldicarb	0.020	U	ug/L	P414737	
		Aldicarb Sulfone	0.0020	U	ug/L	P414737	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P414737	
		Carbaryl	0.0020	U	ug/L	P414737	
		Carbofuran	0.0020	U	ug/L	P414737	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P414737	
		Methiocarb	0.0020	U	ug/L	P414737	
		Methomyl	0.0020	U	ug/L	P414737	
		Oxamyl	0.014		ug/L	P414737	
		Propoxur	0.0020	U	ug/L	P414737	
2331700		2,4-D	0.54		ug/L	P414735	
		Acesulfame K	0.10	U	ug/L	P414771	
		2,4,5-T	0.0040	U	ug/L	P414735	
		AMPA	0.86		ug/L	P414771	
		Acetaminophen	0.0080	U	ug/L	P414735	
		Acetamiprid	0.0020	U	ug/L	P414735	
		Endothall	0.25	U	ug/L	P414771	
		Glufosinate	0.10	U	ug/L	P414771	
		Glyphosate	1.7		ug/L	P414771	
		Afidopyropen	0.0020	U	ug/L	P414735	
		Bentazon	0.24		ug/L	P414735	
		Sucralose	0.010	U	ug/L	P414771	
		Benzovindiflupyr	0.0020	U	ug/L	P414735	
		Carbamazepine	8.0E-04	U	ug/L	P414735	
		Clothianidin	0.035		ug/L	P414735	
		Dinotefuran	0.0020	U	ug/L	P414735	
		Diuron	0.0036	I	ug/L	P414735	
		Fenuron	0.032	U	ug/L	P414735	
		Fluridone	8.0E-04	U	ug/L	P414735	
		Imazapyr	0.0040	U	ug/L	P414735	
		Hydrocodone	0.0020	U	ug/L	P414735	

Field ID: G3SD0083

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331700	EPA 8321B	Ibuprofen	0.020	U	ug/L	P414735	
		Imidacloprid	0.19		ug/L	P414735	
		Linuron	0.0040	U	ug/L	P414735	
		Mandestrobin	0.0020	U	ug/L	P414735	
		MCP	0.0040	U	ug/L	P414735	
		Naproxen	0.0080	U	ug/L	P414735	
		Primidone	0.0040	U	ug/L	P414735	
		Pyraclostrobin	0.0020	U	ug/L	P414735	
		Silvex	0.0040	U	ug/L	P414735	
		Thiamethoxam	0.063		ug/L	P414735	
		Tolfenpyrad	0.0020	U	ug/L	P414735	
		Triclopyr	0.0040	U	ug/L	P414735	
2331704	EPA 8270E	Aldrin	0.68	U	ng/L	P414711	
		Alpha-BHC	0.10	U	ng/L	P414711	
		Alpha-Chlordane	0.21	U	ng/L	P414711	
		PCB-1016	2.1	UJ	ng/L	P414711	CCV
		Beta-BHC	0.10	U	ng/L	P414711	
		PCB-1221	2.1	U	ng/L	P414711	
		Beta-Cyfluthrin**	1.3	U	ng/L	P414711	
		PCB-1232	2.1	U	ng/L	P414711	
		Bifenthrin**	0.52	U	ng/L	P414711	
		PCB-1242	2.1	U	ng/L	P414711	
		PCB-1248	2.1	U	ng/L	P414711	
		Chlorothalonil	1.3	U	ng/L	P414711	
		PCB-1254	2.1	U	ng/L	P414711	
		Cis-Nonachlor**	0.21	U	ng/L	P414711	
		PCB-1260	2.1	U	ng/L	P414711	
		Cypermethrin	1.6	U	ng/L	P414711	
		Dacthal**	0.16	U	ng/L	P414711	
		DDD-p,p'	0.26	U	ng/L	P414711	
		DDE-p,p'	0.21	U	ng/L	P414711	
		DDT-p,p'	0.26	U	ng/L	P414711	
		Delta-BHC	0.42	U	ng/L	P414711	
		Deltamethrin**	1.3	U	ng/L	P414711	
		Dichlobenil**	0.26	U	ng/L	P414711	
		Dicofol	1.3	UJ	ng/L	P414711	CCV, LCS, MS, RPD
		Dieldrin	0.42	U	ng/L	P414711	
		Endosulfan I	0.42	U	ng/L	P414711	
		Endosulfan II	0.42	U	ng/L	P414711	
		Endosulfan Sulfate	0.31	U	ng/L	P414711	
		Endrin	0.42	U	ng/L	P414711	
		Endrin Aldehyde	0.78	U	ng/L	P414711	
		Endrin Ketone	0.42	U	ng/L	P414711	
		Esfenvalerate**	0.78	U	ng/L	P414711	

Field ID: G3SD0083

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331704	EPA 8270E	Ethalfuralin**	0.16	U	ng/L	P414711	
		Fenpropathrin**	0.26	U	ng/L	P414711	
		Gamma-BHC	0.13	U	ng/L	P414711	
		Gamma-Chlordane	0.21	U	ng/L	P414711	
		Heptachlor	0.21	U	ng/L	P414711	
		Heptachlor Epoxide	0.26	U	ng/L	P414711	
		Hexachlorobenzene**	1.0	U	ng/L	P414711	
		Kepone**	5.2	U	ng/L	P414711	
		Lambda-Cyhalothrin**	0.78	U	ng/L	P414711	
		Methoprene**	0.78	U	ng/L	P414711	
		Methoxychlor	0.31	U	ng/L	P414711	
		MGK-264**	0.21	U	ng/L	P414711	
		Mirex	0.73	U	ng/L	P414711	
		Oxychlordane**	0.31	U	ng/L	P414711	
		Permethrin	1.7	U	ng/L	P414711	
		Phenothrin**	0.94	U	ng/L	P414711	
		Piperonyl Butoxide**	0.16	U	ng/L	P414711	
		Prallethrin**	2.1	U	ng/L	P414711	
		Tau-Fluvalinate**	0.26	U	ng/L	P414711	
		Tetramethrin**	0.78	U	ng/L	P414711	
		Trans-Nonachlor**	0.21	U	ng/L	P414711	
		Triclosan Methyl**	0.16	U	ng/L	P414711	
		Trifluralin	0.21	U	ng/L	P414711	
		Chlordane	2.6	U	ng/L	P414711	
		Toxaphene	16	U	ng/L	P414711	
2331705	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P414703	
		Acetochlor	0.24	U	ng/L	P414703	
		Octinoxate**	19	U	ng/L	P414703	
		Alachlor	0.24	U	ng/L	P414703	
		Avobenzone**	96	U	ng/L	P414703	
		Ametryn	21		ng/L	P414703	
		Atrazine	17		ng/L	P414703	
		Atrazine Desethyl	3.2	I	ng/L	P414703	
		Azinphos Methyl	1.9	U	ng/L	P414703	
		Azoxystrobin**	24		ng/L	P414703	
		Bromacil	94		ng/L	P414703	
		Butylate	0.38	U	ng/L	P414703	
		Caffeine**	7.2	U	ng/L	P414703	
		Carbophenothion	0.19	U	ng/L	P414703	
		Carfentrazone Ethyl**	0.096	U	ng/L	P414703	
		Chlorfenapyr**	0.17	U	ng/L	P414703	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P414703	
		Chlorpyrifos Methyl	0.048	U	ng/L	P414703	
		Coumaphos**	0.48	U	ng/L	P414703	
		Cyanazine	3.1	U	ng/L	P414703	

Field ID: G3SD0083

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331705	EPA 8270E	Cyprodinil**	0.096	U	ng/L	P414703	
		Demeton	1.4	U	ng/L	P414703	
		Diazinon	0.12	U	ng/L	P414703	
		Difenoconazole**	0.57	U	ng/L	P414703	
		Dimethenamid**	0.096	U	ng/L	P414703	
		Dimethomorph**	0.17	U	ng/L	P414703	
		Disulfoton	0.48	U	ng/L	P414703	
		Dithiopyr**	0.17	U	ng/L	P414703	
		EPTC	1.2	U	ng/L	P414703	
		Ethion	0.14	U	ng/L	P414703	
		Ethoprop	0.096	U	ng/L	P414703	
		Etridiazole**	0.14	U	ng/L	P414703	
		Fenamiphos	0.48	U	ng/L	P414703	
		Fenbuconazole**	0.12	U	ng/L	P414703	
		Fipronil	0.24	U	ng/L	P414703	
		Fipronil Desulfinyl**	0.12	U	ng/L	P414703	
		Fipronil Sulfide	0.14	U	ng/L	P414703	
		Fipronil Sulfone	0.14	U	ng/L	P414703	
		Fluazifop-P-butyl**	0.096	U	ng/L	P414703	
		Fludioxonil**	0.12	U	ng/L	P414703	
		Flumioxazin**	1.8	I	ng/L	P414703	
		Flutolanil**	0.096	U	ng/L	P414703	
		Fluxapyroxad**	0.096	U	ng/L	P414703	
		Fonofos	0.19	U	ng/L	P414703	
		Hexazinone	23		ng/L	P414703	
		Imazalil**	0.72	U	ng/L	P414703	
		Iprodione**	0.57	U	ng/L	P414703	
		Loratadine**	0.096	U	ng/L	P414703	
		Malathion	0.34	U	ng/L	P414703	
		Metalaxyl	13		ng/L	P414703	
		Metolachlor	92		ng/L	P414703	
		Metribuzin	2.4	U	ng/L	P414703	
		Mevinphos	1.0	U	ng/L	P414703	
		Molinate	0.29	U	ng/L	P414703	
		Myclobutanil**	0.24	U	ng/L	P414703	
		Naled**	1.4	U	ng/L	P414703	RPD
		Napropamide**	0.38	U	ng/L	P414703	
		Norflurazon	57		ng/L	P414703	
		Oxadiazon	1.1	I	ng/L	P414703	
		Oxyfluorfen**	0.14	U	ng/L	P414703	
		Parathion Ethyl	0.24	U	ng/L	P414703	
		Parathion Methyl	0.53	U	ng/L	P414703	
		Pendimethalin	0.96	U	ng/L	P414703	
		Phenytol**	3.4	U	ng/L	P414703	MS
		Phorate	0.50	U	ng/L	P414703	

Field ID: G3SD0083

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2331705	EPA 8270E	Prodiamine**	0.17	U	ng/L	P414703	
		Prometon	0.86	U	ng/L	P414703	
		Prometryn	0.19	U	ng/L	P414703	
		Pronamide**	0.14	U	ng/L	P414703	
		Propanil**	0.12	U	ng/L	P414703	
		Propargite**	1.4	U	ng/L	P414703	
		Propiconazole**	30		ng/L	P414703	
		Pyraflufen Ethyl**	0.24	U	ng/L	P414703	
		Pyridaben**	0.43	U	ng/L	P414703	
		Pyriproxyfen**	0.12	U	ng/L	P414703	
		Simazine	0.48	U	ng/L	P414703	
		Stirophos**	0.12	U	ng/L	P414703	MS
		Sulfentrazone**	41		ng/L	P414703	
		Tebuconazole**	0.48	U	ng/L	P414703	
		Terbufos	0.096	U	ng/L	P414703	
		Terbuthylazine	0.41	U	ng/L	P414703	
		Thiobencarb**	0.57	U	ng/L	P414703	
		Triadimefon**	0.24	U	ng/L	P414703	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample. Batch relative percent difference is unavailable because of analytical difficulties.

EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P414727

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414724

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415040

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415045

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415381

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415354

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414944

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414864

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P414703

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414703

Component	Result	Code	Units
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414703

Component	Result	Code	Units
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414703

Component	Result	Code	Units
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414703

Component	Result	Code	Units
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P414711

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
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414711

Component	Result	Code	Units
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
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414711

Component	Result	Code	Units
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P415088

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
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
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415088

Component	Result	Code	Units
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	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
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	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
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P415088

Component	Result	Code	Units
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276
Batch ID: P414711

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: P414735

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P414735

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P414737

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

Reference Method: EPA 8321B

Batch ID: P414771

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P414771

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P415385

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P415284

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P414896

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415390

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P414811

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P414727

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414724

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415040

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415045

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	101		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	106		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414944

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414864

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

Reference Method: EPA 8270E
Batch ID: P414703

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	76.7		P	70 - 121
Alachlor	69.0		P	68 - 119
Ametryn	67.4		P	64 - 139
Atrazine	77.9		P	76 - 120

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P414703

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine Desethyl	46.2		P	44 - 126
Avobenzone	88.1		P	76 - 212
Azinphos Methyl	108		P	43 - 192
Azoxystrobin	95.4		P	36 - 224
Bromacil	58.1		P	52 - 121
Butylate	53.8		P	28 - 91.0
Caffeine	98.4		P	50 - 134
Carbophenothion	91.6		P	56 - 129
Carfentrazone Ethyl	83.1		P	60 - 141
Chlorfenapyr	80.2		P	56 - 115
Chlorpyrifos Ethyl	86.9		P	60 - 118
Chlorpyrifos Methyl	95.2		P	68 - 119
Coumaphos	124		P	18 - 250
Cyanazine	70.8		P	61 - 250
Cyprodinil	70.2		P	55 - 145
Demeton	70.5		P	30 - 159
Diazinon	81.3		P	70 - 123
Difenoconazole	122		P	49 - 204
Dimethenamid	68.7		P	64 - 115
Dimethomorph	87.8		P	12 - 219
Disulfoton	83.3		P	44 - 125
Dithiopyr	69.7		P	64 - 115
EPTC	44.6		P	28 - 86.0
Ethion	66.4		P	33 - 125
Ethoprop	88.3		P	64 - 116
Etridiazole	50.8		P	34 - 91.0
Fenamiphos	90.1		P	12 - 127
Fenbuconazole	95.7		P	59 - 151
Fipronil	75.9		P	67 - 129
Fipronil Desulfinyl	71.1		P	65 - 127
Fipronil Sulfide	74.2		P	61 - 116
Fipronil Sulfone	85.2		P	55 - 117
Fluazifop-P-butyl	82.4		P	62 - 127
Fludioxonil	83.1		P	62 - 128
Flumioxazin	66.5		P	33 - 250
Flutolanil	72.9		P	56 - 127
Fluxapyroxad	94.6		P	45 - 128
Fonofos	78.5		P	62 - 111
Hexazinone	85.2		P	46 - 139
Imazalil	66.4		P	38 - 142
Iprodione	76.2		P	47 - 135
Loratadine	85.4		P	10 - 244
Malathion	97.6		P	61 - 139
Metalaxyl	64.2		P	10 - 119
Metolachlor	71.9		P	65 - 118
Metribuzin	81.4		P	51 - 250
Mevinphos	90.3		P	53 - 121
Molinate	60.8		P	42 - 96.0
Myclobutanil	75.9		P	55 - 128
Naled	71.9		P	10 - 98.0
Napropamide	61.3		P	49 - 121
Norflurazon	74.5		P	61 - 126

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414703

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Octinoxate	68.8		P	30 - 159
Oxadiazon	67.4		P	59 - 116
Oxybenzone	67.7		P	61 - 139
Oxyfluorfen	86.9		P	64 - 137
Parathion Ethyl	79.0		P	70 - 112
Parathion Methyl	104		P	76 - 133
Pendimethalin	70.2		P	52 - 117
Phenytol	16.9		P	10 - 199
Phorate	72.0		P	48 - 121
Prodiamine	62.3		P	26 - 142
Prometon	70.6		P	43 - 123
Prometryn	74.4		P	66 - 127
Pronamide	81.1		P	75 - 121
Propanil	74.5		P	45 - 150
Propargite	91.5		P	42 - 208
Propiconazole	74.6		P	60 - 125
Pyraflufen Ethyl	87.2		P	70 - 138
Pyridaben	115		P	35 - 245
Pyriproxyfen	89.1		P	30 - 149
Simazine	80.7		P	72 - 125
Stirophos	73.2		P	29 - 164
Sulfentrazone	30.7		P	21 - 139
Tebuconazole	80.5		P	10 - 115
Terbufos	103		P	60 - 123
Terbutylazine	79.0		P	72 - 115
Thiobencarb	70.1		P	31 - 139
Triadimefon	67.2		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P414711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.6		P	10 - 93.0
Alpha-BHC	91.1		P	75 - 106
Alpha-Chlordane	52.9		P	50 - 109
Beta-BHC	85.4		P	36 - 138
Beta-Cyfluthrin	70.6		P	23 - 167
Bifenthrin	52.6		P	11 - 123
Carbophenothion	50.9		P	18 - 96.0
Chlorothalonil	104		P	27 - 190
Cis-Nonachlor	57.1		P	40 - 111
Cypermethrin	73.5		P	25 - 155
Dacthal	79.1		P	72 - 119
DDD-p,p'	58.1		P	47 - 108
DDE-p,p'	65.6		P	48 - 107
DDT-p,p'	65.0		P	49 - 111
Delta-BHC	98.5		P	54 - 138
Deltamethrin	65.7		P	22 - 189
Dichlobenil	73.2		P	32 - 113
Dicofol	189		F	50 - 108
Dieldrin	57.8		P	56 - 110
Endosulfan I	70.6		P	60 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endosulfan II	76.9		P	50 - 120
Endosulfan Sulfate	80.7		P	55 - 121
Endrin	69.2		P	31 - 119
Endrin Aldehyde	68.7		P	36 - 116
Endrin Ketone	84.7		P	69 - 177
Esfenvalerate	73.4		P	10 - 179
Ethalfuralin	71.1		P	49 - 99.0
Fenpropathrin	65.9		P	35 - 119
Gamma-BHC	95.1		P	69 - 120
Gamma-Chlordane	54.9		P	45 - 107
Heptachlor	61.6		P	41 - 100
Heptachlor Epoxide	59.1		P	58 - 106
Hexachlorobenzene	58.0		P	39 - 100
Kepone	86.6		P	10 - 191
Lambda-Cyhalothrin	63.1		P	21 - 206
Methoprene	59.9		P	10 - 129
Methoxychlor	75.2		P	61 - 111
MGK-264	73.7		P	20 - 123
Mirex	55.2		P	10 - 182
Oxychlordane	66.6		P	39 - 110
PCB-1016	106		P	49 - 111
PCB-1260	80.9		P	42 - 116
Permethrin	68.1		P	26 - 152
Phenothrin	53.2		P	10 - 109
Piperonyl Butoxide	87.4		P	19 - 147
Prallethrin	64.7		P	14 - 109
Tau-Fluvalinate	66.7		P	16 - 134
Tetramethrin	82.1		P	10 - 125
Trans-Nonachlor	60.3		P	45 - 107
Triclosan Methyl	67.7		P	60 - 110
Trifluralin	68.1		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P415088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	95.9		P	70 - 121
Alachlor	86.7		P	68 - 119
Ametryn	95.9		P	64 - 139
Atrazine	84.3		P	76 - 120
Atrazine Desethyl	46.5		P	44 - 126
Azoxystrobin	106		P	36 - 224
Bromacil	56.0		P	52 - 121
Butylate	52.2		P	28 - 91.0
Carfentrazone Ethyl	114		P	60 - 141
Chlorfenapyr	85.9		P	56 - 115
Cyanazine	86.0		P	61 - 250
Cyprodinil	84.4		P	55 - 145
Difenoconazole	141		P	49 - 204
Dimethenamid	77.7		P	64 - 115
Dimethomorph	94.3		P	12 - 219
Dithiopyr	88.3		P	64 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	55.0		P	28 - 86.0
Etridiazole	115		F	34 - 91.0
Fenbuconazole	110		P	59 - 151
Fipronil	91.5		P	67 - 129
Fipronil Desulfinyl	89.5		P	65 - 127
Fipronil Sulfide	90.8		P	61 - 116
Fipronil Sulfone	99.2		P	55 - 117
Fluazifop-P-butyl	95.5		P	62 - 127
Fludioxonil	93.4		P	62 - 128
Flumioxazin	132		P	33 - 250
Flutolanil	88.9		P	56 - 127
Fluxapyroxad	115		P	45 - 128
Hexazinone	91.1		P	46 - 139
Imazalil	80.9		P	38 - 142
Iprodione	115		P	47 - 135
Loratadine	84.1		P	10 - 244
Metalaxyl	81.0		P	10 - 119
Metolachlor	87.9		P	65 - 118
Metribuzin	80.9		P	51 - 250
Molinate	73.0		P	42 - 96.0
Myclobutanil	99.5		P	55 - 128
Napropamide	77.3		P	49 - 121
Norflurazon	96.1		P	61 - 126
Oxadiazon	77.5		P	59 - 116
Oxyfluorfen	111		P	64 - 137
Pendimethalin	91.7		P	52 - 117
Phenytol	18.1		P	10 - 199
Prodiamine	97.9		P	26 - 142
Prometon	95.4		P	43 - 123
Prometryn	76.8		P	66 - 127
Pronamide	94.9		P	75 - 121
Propanil	79.4		P	45 - 150
Propargite	110		P	42 - 208
Propiconazole	96.1		P	60 - 125
Pyraflufen Ethyl	107		P	70 - 138
Pyridaben	128		P	35 - 245
Pyriproxyfen	106		P	30 - 149
Simazine	75.1		P	72 - 125
Sulfentrazone	31.3		P	21 - 139
Tebuconazole	100		P	10 - 115
Terbuthylazine	84.1		P	72 - 115
Thiobencarb	81.6		P	31 - 139
Triadimefon	80.7		P	65 - 116

Reference Method: EPA 8276
Batch ID: P414711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.3		P	61 - 118
Toxaphene	113		P	51 - 122

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P414735

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.5		P	40 - 150
2,4,5-T	90.7		P	40 - 150
Acetaminophen	85.8		P	30 - 150
Acetamiprid	82.0		P	40 - 150
Afidopyropen	44.1		P	30 - 150
Bentazon	90.9		P	30 - 150
Benzovindiflupyr	90.9		P	40 - 150
Carbamazepine	97.5		P	40 - 150
Clothianidin	93.8		P	40 - 150
Dinotefuran	93.0		P	40 - 150
Diuron	79.0		P	40 - 150
Fenuron	90.4		P	40 - 150
Fluridone	82.8		P	40 - 150
Hydrocodone	88.6		P	40 - 150
Ibuprofen	83.6		P	40 - 150
Imazapyr	91.8		P	40 - 150
Imidacloprid	87.1		P	40 - 150
Linuron	71.9		P	40 - 150
Mandestrobin	79.7		P	40 - 150
MCPP	105		P	40 - 150
Naproxen	87.0		P	40 - 150
Primidone	95.1		P	40 - 150
Pyraclostrobin	87.4		P	40 - 150
Silvex	83.3		P	40 - 150
Thiamethoxam	89.1		P	40 - 150
Tolfenpyrad	53.2		P	30 - 150
Triclopyr	89.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414737

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	82.1		P	40 - 150
Aldicarb	69.1		P	30 - 150
Aldicarb Sulfone	103		P	40 - 150
Aldicarb Sulfoxide	101		P	40 - 150
Carbaryl	84.4		P	40 - 150
Carbofuran	96.4		P	40 - 150
Methiocarb	76.6		P	40 - 150
Methomyl	87.9		P	40 - 150
Oxamyl	102		P	40 - 150
Propoxur	91.9		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414771

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	140		P	40 - 150
AMPA	88.9		P	40 - 150
Endothall	75.1		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	90.7		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P414771

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	113		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P415385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P415390

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414811

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331662	Chloride	95.0		P	90 - 110
2331663	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331662	Sulfate	96.0		P	90 - 110
2331663	Sulfate	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331515	Ammonia-N	105	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331665	NO2NO3-N	106	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331726	Total-P	101	100	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P414703

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331485	Acetochlor	78.7	94.0	P/P	65 - 124
2331485	Alachlor	72.5	89.8	P/P	61 - 121
2331485	Ametryn	74.0	81.1	P/P	52 - 216
2331485	Atrazine Desethyl	33.6	33.9	P/P	15 - 160
2331485	Avobenzone	84.0	84.1	P/P	59 - 206
2331485	Azinphos Methyl	98.6	128	P/P	40 - 292
2331485	Azoxystrobin	86.2	100	P/P	12 - 242
2331485	Bromacil	54.8	58.0	P/P	54 - 167
2331485	Butylate	65.1	65.3	P/P	14 - 94.0
2331485	Caffeine	97.4	94.5	P/P	10 - 226
2331485	Carbophenothion	77.2	89.8	P/P	49 - 122
2331485	Carfentrazone Ethyl	84.4	92.3	P/P	53 - 138
2331485	Chlorfenapyr	66.8	76.4	P/P	50 - 150
2331485	Chlorpyrifos Ethyl	73.6	87.3	P/P	52 - 122
2331485	Chlorpyrifos Methyl	81.7	104	P/P	66 - 117
2331485	Coumaphos	106	125	P/P	50 - 220
2331485	Cyanazine	63.4	77.7	P/P	43 - 245
2331485	Cyprodinil	71.4	80.2	P/P	50 - 150
2331485	Demeton	80.5	76.8	P/P	43 - 188
2331485	Diazinon	88.3	98.1	P/P	69 - 131

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P414703

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331485	Difenoconazole	124	134	P/P	34 - 231
2331485	Dimethenamid	64.9	74.7	P/P	55 - 118
2331485	Dimethomorph	76.8	88.4	P/P	50 - 150
2331485	Disulfoton	70.8	91.7	P/P	38 - 141
2331485	Dithiopyr	70.5	83.0	P/P	42 - 116
2331485	EPTC	47.0	57.6	P/P	18 - 85.0
2331485	Ethion	58.1	68.0	P/P	10 - 131
2331485	Ethoprop	87.9	103	P/P	65 - 129
2331485	Etridiazole	57.5	64.1	P/P	50 - 150
2331485	Fenamiphos	78.2	77.4	P/P	31 - 137
2331485	Fenbuconazole	96.9	112	P/P	57 - 160
2331485	Fipronil	80.3	91.8	P/P	62 - 132
2331485	Fipronil Desulfinyl	75.4	88.7	P/P	57 - 131
2331485	Fipronil Sulfide	70.2	80.5	P/P	15 - 138
2331485	Fipronil Sulfone	80.2	90.5	P/P	21 - 134
2331485	Fluazifop-P-butyl	86.9	95.5	P/P	54 - 133
2331485	Fludioxonil	84.5	94.8	P/P	58 - 127
2331485	Flumioxazin	118	138	P/P	33 - 300
2331485	Flutolanil	71.5	85.0	P/P	42 - 130
2331485	Fluxapyroxad	104	120	P/P	23 - 141
2331485	Fonofos	65.8	85.8	P/P	58 - 119
2331485	Hexazinone	81.0	92.4	P/P	68 - 172
2331485	Imazalil	63.0	74.0	P/P	48 - 283
2331485	Iprodione	112	129	P/P	38 - 140
2331485	Loratadine	81.5	94.3	P/P	50 - 150
2331485	Malathion	82.3	106	P/P	40 - 137
2331485	Metalaxyl	61.9	69.4	P/P	21 - 129
2331485	Metolachlor	73.6	85.0	P/P	55 - 122
2331485	Metribuzin	75.4	83.3	P/P	38 - 187
2331485	Mevinphos	78.5	94.9	P/P	54 - 134
2331485	Molinate	67.1	76.6	P/P	41 - 97.0
2331485	Myclobutanil	82.7	93.8	P/P	56 - 125
2331485	Naled	59.8	82.5	P/P	10 - 108
2331485	Napropamide	57.1	68.8	P/P	50 - 150
2331485	Norflurazon	79.9	86.2	P/P	32 - 122
2331485	Octinoxate	69.2	61.0	P/P	25 - 150
2331485	Oxadiazon	66.0	74.7	P/P	40 - 119
2331485	Oxybenzone	72.1	65.1	P/P	59 - 147
2331485	Oxyfluorfen	101	118	P/P	61 - 153
2331485	Parathion Ethyl	80.4	98.1	P/P	59 - 130
2331485	Parathion Methyl	96.3	119	P/P	65 - 155
2331485	Pendimethalin	80.8	97.8	P/P	49 - 138
2331485	Phenytoin	39.2	47.3	F/F	50 - 200
2331485	Phorate	68.8	82.3	P/P	54 - 161
2331485	Prodiamine	73.8	88.8	P/P	33 - 161
2331485	Prometon	64.1	80.3	P/P	48 - 140
2331485	Prometryn	67.0	76.4	P/P	55 - 134
2331485	Pronamide	83.6	99.8	P/P	66 - 137
2331485	Propanil	77.1	85.4	P/P	50 - 150
2331485	Propargite	96.3	111	P/P	50 - 200
2331485	Propiconazole	86.1	93.0	P/P	36 - 150
2331485	Pyraflufen Ethyl	90.0	103	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P414703

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331485	Pyridaben	101	113	P/P	50 - 200
2331485	Pyriproxyfen	84.5	97.2	P/P	10 - 165
2331485	Simazine	99.4	108	P/P	57 - 145
2331485	Stirophos	45.4	57.5	F/P	50 - 150
2331485	Sulfentrazone	91.7	90.5	P/P	34 - 140
2331485	Tebuconazole	86.3	99.4	P/P	10 - 127
2331485	Terbufos	95.1	112	P/P	59 - 138
2331485	Terbuthylazine	75.2	84.6	P/P	68 - 119
2331485	Thiobencarb	73.2	83.7	P/P	50 - 150
2331485	Triadimefon	62.0	64.2	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P414711

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331768	Aldrin	50.9	56.6	P/P	10 - 89.0
2331768	Alpha-BHC	103	102	P/P	71 - 105
2331768	Alpha-Chlordane	74.4	74.6	P/P	43 - 107
2331768	Beta-BHC	78.1	71.9	P/P	57 - 152
2331768	Beta-Cyfluthrin	45.1	37.7	P/P	29 - 186
2331768	Bifenthrin	35.9	33.6	P/P	19 - 119
2331768	Carbophenothion	31.9	20.6	P/P	19 - 107
2331768	Chlorothalonil	84.8	82.5	P/P	10 - 245
2331768	Cis-Nonachlor	49.9	44.8	P/P	36 - 110
2331768	Cypermethrin	46.9	36.4	P/P	24 - 169
2331768	Dacthal	79.2	72.4	P/P	62 - 115
2331768	DDD-p,p'	42.4	36.7	P/P	36 - 109
2331768	DDE-p,p'	54.9	56.0	P/P	30 - 114
2331768	DDT-p,p'	68.2	72.3	P/P	42 - 108
2331768	Delta-BHC	139	139	P/P	60 - 164
2331768	Deltamethrin	39.8	25.9	P/P	10 - 210
2331768	Dichlobenil	34.7	31.8	P/P	23 - 108
2331768	Dicofol	188	142	F/F	44 - 109
2331768	Dieldrin	65.2	65.9	P/P	37 - 119
2331768	Endosulfan I	67.6	68.4	P/P	52 - 105
2331768	Endosulfan II	93.7	95.7	P/P	35 - 127
2331768	Endosulfan Sulfate	72.7	55.8	P/P	39 - 130
2331768	Endrin	60.7	57.7	P/P	30 - 116
2331768	Endrin Aldehyde	83.7	68.8	P/P	20 - 110
2331768	Endrin Ketone	95.2	95.9	P/P	48 - 134
2331768	Esfenvalerate	52.1	43.6	P/P	10 - 199
2331768	Ethalfuralin	75.4	75.2	P/P	48 - 95.0
2331768	Fenpropathrin	56.6	61.4	P/P	37 - 121
2331768	Gamma-BHC	82.2	89.9	P/P	61 - 126
2331768	Gamma-Chlordane	68.8	69.9	P/P	39 - 105
2331768	Heptachlor	78.0	77.1	P/P	38 - 96.0
2331768	Heptachlor Epoxide	71.4	67.3	P/P	42 - 114
2331768	Hexachlorobenzene	65.2	61.6	P/P	39 - 93.0
2331768	Kepone	176	105	P/P	10 - 215
2331768	Lambda-Cyhalothrin	38.3	30.1	P/P	10 - 204
2331768	Methoprene	57.6	66.1	P/P	17 - 108
2331768	Methoxychlor	76.7	80.0	P/P	56 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P414711

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331768	MGK-264	71.2	62.0	P/P	35 - 120
2331768	Mirex	43.6	51.7	P/P	10 - 178
2331768	Oxychlordane	67.3	73.2	P/P	47 - 91.0
2331768	Permethrin	44.6	35.0	P/P	27 - 170
2331768	Phenothrin	26.8	21.5	P/P	10 - 133
2331768	Piperonyl Butoxide	67.1	48.8	P/P	23 - 150
2331768	Prallethrin	57.2	40.9	P/P	21 - 113
2331768	Tau-Fluvalinate	38.2	28.0	P/P	16 - 158
2331768	Tetramethrin	52.6	41.8	P/P	22 - 132
2331768	Trans-Nonachlor	54.4	50.4	P/P	43 - 102
2331768	Triclosan Methyl	61.5	51.1	P/P	49 - 109
2331768	Trifluralin	68.3	60.7	P/P	48 - 93.0
2331808	PCB-1016	80.8	73.8	P/P	46 - 110
2331808	PCB-1260	80.3	82.9	P/P	42 - 111

Reference Method: EPA 8270E

Batch ID: P415088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333511	Acetochlor	104	85.4	P/P	65 - 124
2333511	Alachlor	96.1	76.9	P/P	61 - 121
2333511	Ametryn	116	99.4	P/P	52 - 216
2333511	Atrazine Desethyl	22.9	24.7	P/P	15 - 160
2333511	Azoxystrobin	80.6	99.9	P/P	12 - 242
2333511	Bromacil	59.6	57.5	P/P	54 - 167
2333511	Butylate	50.6	59.2	P/P	14 - 94.0
2333511	Carfentrazone Ethyl	125	100	P/P	53 - 138
2333511	Chlorfenapyr	83.5	85.7	P/P	50 - 150
2333511	Cyanazine	80.6	58.9	P/P	43 - 245
2333511	Cyprodinil	90.6	76.5	P/P	50 - 150
2333511	Difenoconazole	170	99.9	P/P	34 - 231
2333511	Dimethenamid	87.1	66.7	P/P	55 - 118
2333511	Dimethomorph	88.4	142	P/P	50 - 150
2333511	EPTC	44.9	55.6	P/P	18 - 85.0
2333511	Etridiazole	124	120	P/P	50 - 150
2333511	Fenbuconazole	124	92.3	P/P	57 - 160
2333511	Fipronil	103	86.5	P/P	62 - 132
2333511	Fipronil Desulfinyl	95.7	81.8	P/P	57 - 131
2333511	Fipronil Sulfide	87.8	81.9	P/P	15 - 138
2333511	Fipronil Sulfone	91.7	74.4	P/P	21 - 134
2333511	Fluazifop-P-butyl	103	85.6	P/P	54 - 133
2333511	Fludioxonil	97.1	76.2	P/P	58 - 127
2333511	Flumioxazin	158	82.7	P/P	33 - 300
2333511	Flutolanil	91.9	72.5	P/P	42 - 130
2333511	Fluxapyroxad	131	78.9	P/P	23 - 141
2333511	Hexazinone	88.2	70.9	P/P	68 - 172
2333511	Imazalil	73.8	75.7	P/P	48 - 283
2333511	Iprodione	140	112	P/P	38 - 140
2333511	Loratadine	88.5	163	P/F	50 - 150
2333511	Metalaxyl	80.1	67.0	P/P	21 - 129
2333511	Metolachlor	90.7	73.1	P/P	55 - 122
2333511	Metribuzin	75.1	88.5	P/P	38 - 187

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P415088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333511	Molinate	73.0	69.6	P/P	41 - 97.0
2333511	Myclobutanil	98.9	75.8	P/P	56 - 125
2333511	Napropamide	75.4	27.3	P/F	50 - 150
2333511	Oxyfluorfen	120	98.6	P/P	61 - 153
2333511	Pendimethalin	105	93.8	P/P	49 - 138
2333511	Phenytol	45.6	33.3	F/F	50 - 200
2333511	Prodiamine	101	90.0	P/P	33 - 161
2333511	Prometon	106	95.4	P/P	48 - 140
2333511	Prometryn	84.8	75.2	P/P	55 - 134
2333511	Pronamide	101	79.7	P/P	66 - 137
2333511	Propanil	81.7	70.3	P/P	50 - 150
2333511	Propargite	115	66.8	P/P	50 - 200
2333511	Pyraflufen Ethyl	122	103	P/P	50 - 150
2333511	Pyridaben	116	95.7	P/P	50 - 200
2333511	Pyriproxyfen	105	25.0	P/P	10 - 165
2333511	Simazine	190	178	F/F	57 - 145
2333511	Tebuconazole	102	50.5	P/P	10 - 127
2333511	Terbuthylazine	90.5	76.8	P/P	68 - 119
2333511	Thiobencarb	84.6	70.9	P/P	50 - 150
2333511	Triadimefon	75.2	66.9	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P414711

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331808	Chlordane	91.5	88.0	P/P	55 - 128
2331808	Toxaphene	120	123	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P414735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331275	2,4,5-T	104	97.2	P/P	40 - 150
2331275	Acetaminophen	110	110	P/P	30 - 150
2331275	Acetamiprid	83.9	75.6	P/P	40 - 150
2331275	Afidopyropen	46.4	47.8	P/P	30 - 150
2331275	Benzovindiflupyr	88.0	87.4	P/P	40 - 150
2331275	Carbamazepine	110	108	P/P	40 - 150
2331275	Clothianidin	119	118	P/P	40 - 150
2331275	Dinotefuran	135	130	P/P	40 - 150
2331275	Diuron	79.1	84.5	P/P	40 - 150
2331275	Fenuron	83.8	81.5	P/P	40 - 150
2331275	Fluridone	83.5	83.7	P/P	40 - 150
2331275	Hydrocodone	100	100	P/P	40 - 150
2331275	Ibuprofen	84.4	86.9	P/P	40 - 150
2331275	Imidacloprid	147	137	P/P	40 - 150
2331275	Linuron	69.7	72.7	P/P	40 - 150
2331275	Mandestrobin	83.7	82.5	P/P	40 - 150
2331275	MCP	123	121	P/P	40 - 150
2331275	Naproxen	91.1	76.2	P/P	40 - 150
2331275	Primidone	118	117	P/P	40 - 150
2331275	Pyraclostrobin	83.6	77.5	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P414735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331275	Silvex	99.6	91.8	P/P	40 - 150
2331275	Thiamethoxam	140	134	P/P	40 - 150
2331275	Tolfenpyrad	57.0	53.6	P/P	30 - 150
2331275	Triclopyr	113	100	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330834	3-Hydroxycarbofuran	88.7	97.6	P/P	40 - 150
2330834	Aldicarb	76.5	77.1	P/P	30 - 150
2330834	Aldicarb Sulfone	125	117	P/P	40 - 150
2330834	Aldicarb Sulfoxide	52.7	47.5	P/P	40 - 150
2330834	Carbaryl	73.8	69.3	P/P	40 - 150
2330834	Carbofuran	82.1	77.0	P/P	40 - 150
2330834	Methiocarb	77.0	75.1	P/P	40 - 150
2330834	Methomyl	86.4	81.9	P/P	40 - 150
2330834	Oxamyl	99.8	93.3	P/P	40 - 150
2330834	Propoxur	85.3	81.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414771

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331315	Acesulfame K	125	127	P/P	40 - 150
2331315	AMPA	67.0	61.8	P/P	40 - 150
2331315	Endothall	72.4	72.9	P/P	40 - 150
2331315	Glufosinate	92.8	82.8	P/P	40 - 150
2331315	Glyphosate	79.9	97.2	P/P	40 - 150
2331315	Sucralose	108	112	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P415390

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331887	Fluoride	99.1	99.7	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P414811

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331634	Organic Carbon	96.9	96.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P414727

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331632	Color (true)	2.58	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331630	Turbidity	2.03	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331662	Chloride	0.268	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331662	Sulfate	1.05	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331515	Ammonia-N	0.957	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331665	NO2NO3-N	0.948	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331726	Total-P	0.557	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P414703

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331485	Acetochlor	17.6	Spike	P	0 - 27
2331485	Alachlor	21.4	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414703

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331485	Ametryn	9.16	Spike	P	0 - 34
2331485	Atrazine	3.83	Spike	P	0 - 41
2331485	Atrazine Desethyl	0.563	Spike	P	0 - 38
2331485	Avobenzone	0.0828	Spike	P	0 - 30
2331485	Azinphos Methyl	25.6	Spike	P	0 - 62
2331485	Azoxystrobin	15.0	Spike	P	0 - 32
2331485	Bromacil	5.77	Spike	P	0 - 30
2331485	Butylate	0.271	Spike	P	0 - 59
2331485	Caffeine	2.95	Spike	P	0 - 60
2331485	Carbophenothion	15.1	Spike	P	0 - 25
2331485	Carfentrazone Ethyl	8.94	Spike	P	0 - 26
2331485	Chlorfenapyr	13.4	Spike	P	0 - 30
2331485	Chlorpyrifos Ethyl	17.1	Spike	P	0 - 27
2331485	Chlorpyrifos Methyl	23.8	Spike	P	0 - 26
2331485	Coumaphos	16.9	Spike	P	0 - 30
2331485	Cyanazine	20.3	Spike	P	0 - 58
2331485	Cyprodinil	11.6	Spike	P	0 - 30
2331485	Demeton	4.66	Spike	P	0 - 25
2331485	Diazinon	10.5	Spike	P	0 - 29
2331485	Difenoconazole	7.62	Spike	P	0 - 25
2331485	Dimethenamid	14.1	Spike	P	0 - 30
2331485	Dimethomorph	14.0	Spike	P	0 - 30
2331485	Disulfoton	25.7	Spike	P	0 - 33
2331485	Dithiopyr	16.4	Spike	P	0 - 22
2331485	EPTC	20.1	Spike	P	0 - 38
2331485	Ethion	15.7	Spike	P	0 - 79
2331485	Ethoprop	15.8	Spike	P	0 - 23
2331485	Etridiazole	10.9	Spike	P	0 - 30
2331485	Fenamiphos	1.03	Spike	P	0 - 58
2331485	Fenbuconazole	14.7	Spike	P	0 - 37
2331485	Fipronil	12.2	Spike	P	0 - 33
2331485	Fipronil Desulfinyl	14.3	Spike	P	0 - 26
2331485	Fipronil Sulfide	11.1	Spike	P	0 - 37
2331485	Fipronil Sulfone	8.29	Spike	P	0 - 50
2331485	Fluazifop-P-butyl	9.44	Spike	P	0 - 24
2331485	Fludioxonil	11.5	Spike	P	0 - 26
2331485	Flumioxazin	15.7	Spike	P	0 - 37
2331485	Flutolanil	17.3	Spike	P	0 - 26
2331485	Fluxapyroxad	14.4	Spike	P	0 - 34
2331485	Fonofos	26.4	Spike	P	0 - 27
2331485	Hexazinone	13.2	Spike	P	0 - 36
2331485	Imazalil	16.2	Spike	P	0 - 65
2331485	Iprodione	13.5	Spike	P	0 - 33
2331485	Loratadine	14.5	Spike	P	0 - 30
2331485	Malathion	25.0	Spike	P	0 - 44
2331485	Metalaxyl	11.4	Spike	P	0 - 38
2331485	Metolachlor	14.3	Spike	P	0 - 36
2331485	Metribuzin	9.95	Spike	P	0 - 63
2331485	Mevinphos	18.9	Spike	P	0 - 26
2331485	Molinate	13.2	Spike	P	0 - 40
2331485	Myclobutanil	12.6	Spike	P	0 - 21

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414703

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331485	Naled	31.9	Spike	F	0 - 26
2331485	Napropamide	18.7	Spike	P	0 - 30
2331485	Norflurazon	7.59	Spike	P	0 - 24
2331485	Octinoxate	12.5	Spike	P	0 - 30
2331485	Oxadiazon	10.6	Spike	P	0 - 27
2331485	Oxybenzone	10.2	Spike	P	0 - 30
2331485	Oxyfluorfen	14.9	Spike	P	0 - 24
2331485	Parathion Ethyl	19.9	Spike	P	0 - 28
2331485	Parathion Methyl	20.8	Spike	P	0 - 27
2331485	Pendimethalin	19.1	Spike	P	0 - 31
2331485	Phenytoin	18.7	Spike	P	0 - 30
2331485	Phorate	17.8	Spike	P	0 - 27
2331485	Prodiamine	18.4	Spike	P	0 - 52
2331485	Prometon	22.5	Spike	P	0 - 31
2331485	Prometryn	13.2	Spike	P	0 - 28
2331485	Pronamide	17.7	Spike	P	0 - 26
2331485	Propanil	10.2	Spike	P	0 - 30
2331485	Propargite	14.3	Spike	P	0 - 30
2331485	Propiconazole	7.66	Spike	P	0 - 31
2331485	Pyraflufen Ethyl	13.8	Spike	P	0 - 30
2331485	Pyridaben	11.3	Spike	P	0 - 30
2331485	Pyriproxyfen	14.0	Spike	P	0 - 50
2331485	Simazine	8.08	Spike	P	0 - 29
2331485	Stiropfos	23.4	Spike	P	0 - 30
2331485	Sulfentrazone	1.28	Spike	P	0 - 33
2331485	Tebuconazole	14.2	Spike	P	0 - 44
2331485	Terbufos	16.7	Spike	P	0 - 29
2331485	Terbuthylazine	11.8	Spike	P	0 - 27
2331485	Thiobencarb	13.4	Spike	P	0 - 30
2331485	Triadimefon	3.45	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P414711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331768	Aldrin	10.7	Spike	P	0 - 37
2331768	Alpha-BHC	1.10	Spike	P	0 - 16
2331768	Alpha-Chlordane	0.262	Spike	P	0 - 28
2331768	Beta-BHC	8.33	Spike	P	0 - 32
2331768	Beta-Cyfluthrin	17.8	Spike	P	0 - 41
2331768	Bifenthrin	6.50	Spike	P	0 - 36
2331768	Carbophenothion	43.3	Spike	P	0 - 81
2331768	Chlorothalonil	2.80	Spike	P	0 - 54
2331768	Cis-Nonachlor	10.8	Spike	P	0 - 33
2331768	Cypermethrin	25.1	Spike	P	0 - 38
2331768	Dacthal	8.97	Spike	P	0 - 23
2331768	DDD-p,p'	14.4	Spike	P	0 - 35
2331768	DDE-p,p'	1.97	Spike	P	0 - 27
2331768	DDT-p,p'	5.87	Spike	P	0 - 31
2331768	Delta-BHC	0.446	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331768	Deltamethrin	42.5	Spike	P	0 - 76
2331768	Dichlobenil	8.92	Spike	P	0 - 33
2331768	Dicofol	27.7	Spike	F	0 - 24
2331768	Dieldrin	1.08	Spike	P	0 - 35
2331768	Endosulfan I	1.16	Spike	P	0 - 25
2331768	Endosulfan II	2.12	Spike	P	0 - 31
2331768	Endosulfan Sulfate	26.3	Spike	P	0 - 38
2331768	Endrin	5.08	Spike	P	0 - 53
2331768	Endrin Aldehyde	19.6	Spike	P	0 - 81
2331768	Endrin Ketone	0.725	Spike	P	0 - 33
2331768	Esfenvalerate	17.7	Spike	P	0 - 46
2331768	Ethalfuralin	0.276	Spike	P	0 - 22
2331768	Fenpropathrin	8.10	Spike	P	0 - 29
2331768	Gamma-BHC	8.94	Spike	P	0 - 17
2331768	Gamma-Chlordane	1.55	Spike	P	0 - 28
2331768	Heptachlor	1.22	Spike	P	0 - 28
2331768	Heptachlor Epoxide	6.04	Spike	P	0 - 23
2331768	Hexachlorobenzene	5.64	Spike	P	0 - 22
2331768	Kepone	50.8	Spike	P	0 - 61
2331768	Lambda-Cyhalothrin	23.9	Spike	P	0 - 52
2331768	Methoprene	13.6	Spike	P	0 - 38
2331768	Methoxychlor	4.19	Spike	P	0 - 29
2331768	MGK-264	13.9	Spike	P	0 - 41
2331768	Mirex	16.9	Spike	P	0 - 39
2331768	Oxychlordane	8.26	Spike	P	0 - 33
2331768	Permethrin	24.2	Spike	P	0 - 39
2331768	Phenothrin	22.0	Spike	P	0 - 52
2331768	Piperonyl Butoxide	31.5	Spike	P	0 - 91
2331768	Prallethrin	33.2	Spike	P	0 - 34
2331768	Tau-Fluvalinate	30.8	Spike	P	0 - 41
2331768	Tetramethrin	22.9	Spike	P	0 - 43
2331768	Trans-Nonachlor	7.62	Spike	P	0 - 31
2331768	Triclosan Methyl	18.5	Spike	P	0 - 24
2331768	Trifluralin	11.8	Spike	P	0 - 23
2331808	PCB-1016	9.04	Spike	P	0 - 32
2331808	PCB-1260	3.20	Spike	P	0 - 31

Reference Method: EPA 8270E
Batch ID: P415088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333511	Acetochlor	19.6	Spike	P	0 - 27
2333511	Alachlor	22.2	Spike	P	0 - 27
2333511	Ametryn	15.4	Spike	P	0 - 34
2333511	Atrazine	24.9	Spike	P	0 - 41
2333511	Atrazine Desethyl	2.36	Spike	P	0 - 38
2333511	Azoxystrobin	11.1	Spike	P	0 - 32
2333511	Bromacil	2.51	Spike	P	0 - 30
2333511	Butylate	15.7	Spike	P	0 - 59
2333511	Carfentrazone Ethyl	22.1	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P415088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333511	Chlorfenapyr	2.67	Spike	P	0 - 30
2333511	Cyanazine	31.2	Spike	P	0 - 58
2333511	Cyprodinil	16.8	Spike	P	0 - 30
2333511	Difenoconazole	51.8	Spike	F	0 - 25
2333511	Dimethenamid	26.4	Spike	P	0 - 30
2333511	Dimethomorph	46.3	Spike	F	0 - 30
2333511	Dithiopyr	12.0	Spike	P	0 - 22
2333511	EPTC	21.2	Spike	P	0 - 38
2333511	Etridiazole	3.18	Spike	P	0 - 30
2333511	Fenbuconazole	26.8	Spike	P	0 - 37
2333511	Fipronil	16.4	Spike	P	0 - 33
2333511	Fipronil Desulfinyl	12.4	Spike	P	0 - 26
2333511	Fipronil Sulfide	5.88	Spike	P	0 - 37
2333511	Fipronil Sulfone	16.1	Spike	P	0 - 50
2333511	Fluazifop-P-butyl	18.7	Spike	P	0 - 24
2333511	Fludioxonil	24.2	Spike	P	0 - 26
2333511	Flumioxazin	62.5	Spike	F	0 - 37
2333511	Flutolanil	19.9	Spike	P	0 - 26
2333511	Fluxapyroxad	45.4	Spike	F	0 - 34
2333511	Hexazinone	13.2	Spike	P	0 - 36
2333511	Imazalil	2.54	Spike	P	0 - 65
2333511	Iprodione	22.0	Spike	P	0 - 33
2333511	Loratadine	59.1	Spike	F	0 - 30
2333511	Metalaxyl	13.8	Spike	P	0 - 38
2333511	Metolachlor	18.8	Spike	P	0 - 36
2333511	Metribuzin	16.4	Spike	P	0 - 63
2333511	Molinate	4.69	Spike	P	0 - 40
2333511	Myclobutanil	20.4	Spike	P	0 - 21
2333511	Napropamide	93.5	Spike	F	0 - 30
2333511	Norflurazon	5.78	Spike	P	0 - 24
2333511	Oxadiazon	46.1	Spike	F	0 - 27
2333511	Oxyfluorfen	19.8	Spike	P	0 - 24
2333511	Pendimethalin	11.4	Spike	P	0 - 31
2333511	Phenytol	31.3	Spike	F	0 - 30
2333511	Prodiamine	9.72	Spike	P	0 - 52
2333511	Prometon	10.3	Spike	P	0 - 31
2333511	Prometryn	12.0	Spike	P	0 - 28
2333511	Pronamide	23.9	Spike	P	0 - 26
2333511	Propanil	15.0	Spike	P	0 - 30
2333511	Propargite	53.0	Spike	F	0 - 30
2333511	Propiconazole	10.6	Spike	P	0 - 31
2333511	Pyraflufen Ethyl	17.4	Spike	P	0 - 30
2333511	Pyridaben	18.8	Spike	P	0 - 30
2333511	Pyriproxyfen	123	Spike	F	0 - 50
2333511	Simazine	6.79	Spike	P	0 - 29
2333511	Sulfentrazone	12.0	Spike	P	0 - 33
2333511	Tebuconazole	54.4	Spike	F	0 - 44
2333511	Terbuthylazine	16.3	Spike	P	0 - 27
2333511	Thiobencarb	17.6	Spike	P	0 - 30
2333511	Triadimefon	11.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P414711

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331808	Chlordane	3.87	Spike	P	0 - 25
2331808	Toxaphene	2.72	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: P414735

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331275	2,4-D	0.530	Spike	P	0 - 30
2331275	2,4,5-T	7.18	Spike	P	0 - 30
2331275	Acetaminophen	0.0692	Spike	P	0 - 30
2331275	Acetamiprid	10.4	Spike	P	0 - 30
2331275	Afidopyropen	3.15	Spike	P	0 - 30
2331275	Benzovindiflupyr	0.688	Spike	P	0 - 30
2331275	Carbamazepine	1.45	Spike	P	0 - 30
2331275	Clothianidin	0.345	Spike	P	0 - 30
2331275	Dinotefuran	3.11	Spike	P	0 - 30
2331275	Diuron	6.36	Spike	P	0 - 30
2331275	Fenuron	2.78	Spike	P	0 - 30
2331275	Fluridone	0.0989	Spike	P	0 - 30
2331275	Hydrocodone	0.0943	Spike	P	0 - 30
2331275	Ibuprofen	2.89	Spike	P	0 - 30
2331275	Imazapyr	0.196	Spike	P	0 - 30
2331275	Imidacloprid	5.86	Spike	P	0 - 30
2331275	Linuron	4.22	Spike	P	0 - 30
2331275	Mandestrobin	1.47	Spike	P	0 - 30
2331275	MCP	1.14	Spike	P	0 - 30
2331275	Naproxen	17.8	Spike	P	0 - 30
2331275	Primidone	1.40	Spike	P	0 - 30
2331275	Pyraclostrobin	7.59	Spike	P	0 - 30
2331275	Silvex	8.15	Spike	P	0 - 30
2331275	Thiamethoxam	4.75	Spike	P	0 - 30
2331275	Tolfenpyrad	6.32	Spike	P	0 - 30
2331275	Triclopyr	11.9	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P414737

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330834	3-Hydroxycarbofuran	9.55	Spike	P	0 - 30
2330834	Aldicarb	0.710	Spike	P	0 - 30
2330834	Aldicarb Sulfone	6.60	Spike	P	0 - 30
2330834	Aldicarb Sulfoxide	10.4	Spike	P	0 - 30
2330834	Carbaryl	6.34	Spike	P	0 - 30
2330834	Carbofuran	6.34	Spike	P	0 - 30
2330834	Methiocarb	2.55	Spike	P	0 - 30
2330834	Methomyl	5.42	Spike	P	0 - 30
2330834	Oxamyl	6.75	Spike	P	0 - 30
2330834	Propoxur	4.36	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P414771

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331315	Acesulfame K	1.58	Spike	P	0 - 30
2331315	AMPA	4.94	Spike	P	0 - 30
2331315	Endothall	0.753	Spike	P	0 - 30
2331315	Glufosinate	11.4	Spike	P	0 - 30
2331315	Glyphosate	9.62	Spike	P	0 - 30
2331315	Sucralose	3.90	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P415385

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331887	Total Alkalinity	0.396	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011

Batch ID: P415284

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331615	TDS	0.0	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P415390

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331887	Fluoride	0.476	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011

Batch ID: P414811

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331634	Organic Carbon	0.140	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2331696
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	66.9	P	30 - 160

Lab Sample ID: 2331697
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	113	P	30 - 160
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Carbamazepine-d10	96.0	P	30 - 160
EPA 8321B	Diuron-d6	66.8	P	30 - 160
EPA 8321B	Endothall-d6	116	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.5	P	30 - 160
EPA 8321B	Primidone-d5	92.0	P	30 - 160
EPA 8321B	Sucralose-d6	155	P	30 - 160

Lab Sample ID: 2331698
Field Sample ID: G3SD0175

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	108	P	30 - 160
EPA 8321B	Carbamazepine-d10	100	P	30 - 160
EPA 8321B	Diuron-d6	71.6	P	30 - 160
EPA 8321B	Endothall-d6	108	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	74.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.5	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	158	P	30 - 160

Lab Sample ID: 2331699
Field Sample ID: G3SD0083

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	75.1	P	30 - 160

Lab Sample ID: 2331700
Field Sample ID: G3SD0083

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	86.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	82.8	P	30 - 160
EPA 8321B	Diuron-d6	60.2	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	34.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.9	P	30 - 160
EPA 8321B	Primidone-d5	83.1	P	30 - 160
EPA 8321B	Sucralose-d6	36.6	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2331701
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	109	P	38 - 115
EPA 8270E	Decachlorobiphenyl	81.3	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	70.8	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	36.1	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	80.1	P	30 - 97.0
EPA 8276	PCNB	98.9	P	45 - 119

Lab Sample ID: 2331702
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	32.2	P	20 - 200
EPA 8270E	Caffeine-d9	41.1	P	20 - 200
EPA 8270E	Simazine-d10	84.9	P	71 - 140
EPA 8270E	Terbufos-d10	72.3	P	62 - 131
EPA 8270E	Terbufos-d10	70.4	P	62 - 131
EPA 8270E	Terphenyl-d14	61.3	P	52 - 141

Lab Sample ID: 2331703
Field Sample ID: G3SD0175

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	103	P	38 - 115
EPA 8270E	Decachlorobiphenyl	57.4	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	60.3	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	67.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	76.8	P	30 - 97.0
EPA 8276	PCNB	101	P	45 - 119

Lab Sample ID: 2331704
Field Sample ID: G3SD0083

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	97.9	P	38 - 115
EPA 8270E	Decachlorobiphenyl	62.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	57.2	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	66.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	74.5	P	30 - 97.0
EPA 8276	PCNB	107	P	45 - 119

Lab Sample ID: 2331705
Field Sample ID: G3SD0083

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	46.3	P	20 - 200
EPA 8270E	Simazine-d10	76.8	P	71 - 140
EPA 8270E	Terbufos-d10	90.1	P	62 - 131
EPA 8270E	Terphenyl-d14	76.1	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112604

Included Lab Sample IDs: 2331688

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A112605

Included Lab Sample IDs: 2331688

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	105	P/P	85 - 115

Reference Method: SM 5310 B-2011

Run ID: A112642

Included Lab Sample IDs: 2331689

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.3	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A112660

Included Lab Sample IDs: 2331697, 2331698, 2331700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	143	154	P/P	60 - 160
Sucralose	110	115	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A112661

Included Lab Sample IDs: 2331697, 2331698, 2331700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	88.8	91.9	P/P	60 - 160
Endothall	70.5	67.5	P/P	60 - 160
Glufosinate	102	99.0	P/P	60 - 160
Glyphosate	92.9	95.0	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A112673

Included Lab Sample IDs: 2331697, 2331698, 2331700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.1	95.2	P/P	50 - 150
2,4,5-T	99.5	103	P/P	50 - 150
3-Hydroxycarbofuran	99.8	103	P/P	60 - 150
Acetaminophen	104	103	P/P	60 - 160
Acetamiprid	103	101	P/P	50 - 150
Afidopyropen	97.0	97.7	P/P	50 - 150
Aldicarb	96.8	99.3	P/P	60 - 150
Aldicarb Sulfone	103	103	P/P	50 - 150
Aldicarb Sulfoxide	103	104	P/P	50 - 150
Bentazon	101	108	P/P	50 - 160
Bentazon	108	104	P/P	50 - 160
Benzovindiflupyr	113	105	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A112673

Included Lab Sample IDs: 2331697, 2331698, 2331700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbamazepine	104	101	P/P	60 - 150
Carbaryl	98.9	109	P/P	60 - 150
Carbofuran	103	106	P/P	50 - 150
Clothianidin	107	99.8	P/P	60 - 150
Dinotefuran	102	102	P/P	50 - 150
Diuron	97.8	102	P/P	60 - 160
Fenuron	103	101	P/P	60 - 150
Fluridone	110	114	P/P	60 - 160
Hydrocodone	97.9	98.8	P/P	60 - 150
Ibuprofen	108	101	P/P	50 - 160
Imazapyr	91.7	92.4	P/P	50 - 150
Imidacloprid	97.2	90.9	P/P	60 - 150
Linuron	106	98.7	P/P	60 - 150
Mandestrobin	108	110	P/P	50 - 150
MCPP	93.6	88.3	P/P	50 - 150
Methiocarb	102	101	P/P	50 - 150
Methomyl	103	100	P/P	50 - 150
Naproxen	105	131	P/P	50 - 160
Oxamyl	103	102	P/P	50 - 150
Primidone	103	102	P/P	60 - 150
Propoxur	104	106	P/P	50 - 150
Pyraclostrobin	108	108	P/P	60 - 150
Silvex	94.1	93.3	P/P	50 - 150
Thiamethoxam	99.4	99.4	P/P	50 - 150
Tolfenpyrad	102	104	P/P	60 - 150
Triclopyr	96.7	90.5	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A112696

Included Lab Sample IDs: 2331689

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A112707

Included Lab Sample IDs: 2331688

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	101	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112714

Included Lab Sample IDs: 2331702, 2331705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.1		P	80 - 120
Alachlor	94.6		P	80 - 120
Ametryn	91.6		P	80 - 120
Atrazine	95.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112714

Included Lab Sample IDs: 2331702, 2331705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	83.5		P	80 - 120
Azoxystrobin	98.7		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	98.6		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	94.1		P	80 - 120
Chlorfenapyr	107		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	88.8		P	80 - 120
Cyanazine	87.6		P	80 - 120
Cyprodinil	90.9		P	80 - 120
Demeton	98.3		P	80 - 120
Diazinon	96.8		P	80 - 120
Difenoconazole	86.0		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	98.4		P	80 - 120
Disulfoton	99.4		P	80 - 120
Dithiopyr	97.3		P	80 - 120
EPTC	95.0		P	80 - 120
Ethion	95.0		P	80 - 120
Ethoprop	97.8		P	80 - 120
Etridiazole	99.5		P	80 - 120
Fenamiphos	103		P	80 - 120
Fenbuconazole	90.9		P	80 - 120
Fipronil	99.0		P	80 - 120
Fipronil Desulfinyl	97.8		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	106		P	80 - 120
Fluazifop-P-butyl	108		P	80 - 120
Fludioxonil	106		P	80 - 120
Flumioxazin	82.8		P	80 - 120
Flutolanil	98.5		P	80 - 120
Fluxapyroxad	96.8		P	80 - 120
Fonofos	93.2		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	97.9		P	80 - 120
Iprodione	89.8		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	104		P	80 - 120
Metalaxyl	95.8		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	94.8		P	80 - 120
Molinate	94.2		P	80 - 120
Myclobutanil	97.8		P	80 - 120
Naled	104		P	80 - 120
Napropamide	95.6		P	80 - 120
Norflurazon	94.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112714

Included Lab Sample IDs: 2331702, 2331705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxadiazon	103		P	80 - 120
Oxyfluorfen	92.0		P	80 - 120
Parathion Ethyl	97.0		P	80 - 120
Parathion Methyl	97.7		P	80 - 120
Pendimethalin	94.6		P	80 - 120
Phenytoin	94.6		P	80 - 120
Phorate	91.3		P	80 - 120
Prodiamine	82.4		P	80 - 120
Prometon	85.4		P	80 - 120
Prometryn	88.1		P	80 - 120
Pronamide	90.8		P	80 - 120
Propanil	95.0		P	80 - 120
Propargite	91.2		P	80 - 120
Propiconazole	95.3		P	80 - 120
Pyraflufen Ethyl	99.0		P	80 - 120
Pyridaben	95.8		P	80 - 120
Pyriproxyfen	94.1		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	97.3		P	80 - 120
Sulfentrazone	95.6		P	80 - 120
Tebuconazole	93.4		P	80 - 120
Terbufos	94.2		P	80 - 120
Terbuthylazine	99.2		P	80 - 120
Thiobencarb	96.7		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 8270E

Run ID: A112719

Included Lab Sample IDs: 2331701, 2331703, 2331704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	154*		F	80 - 120
PCB-1260	93.7		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112731

Included Lab Sample IDs: 2331689

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	99.9	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112735

Included Lab Sample IDs: 2331701, 2331703, 2331704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.4		P	80 - 120
Alpha-BHC	98.5		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	93.6		P	80 - 120
Beta-Cyfluthrin	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112735

Included Lab Sample IDs: 2331701, 2331703, 2331704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bifenthrin	107		P	80 - 120
Carbophenothion	99.6		P	80 - 120
Chlorothalonil	89.3		P	80 - 120
Cis-Nonachlor	96.0		P	80 - 120
Cypermethrin	106		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	95.4		P	80 - 120
Deltamethrin	86.8		P	80 - 120
Dichlobenil	89.0		P	80 - 120
Dicofol	153*		F	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	98.6		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	100		P	80 - 120
Endrin Ketone	98.7		P	80 - 120
Esfenvalerate	105		P	80 - 120
Ethalfuralin	99.3		P	80 - 120
Fenpropathrin	110		P	80 - 120
Gamma-BHC	99.0		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	99.1		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	91.2		P	80 - 120
Kepone	91.4		P	80 - 120
Lambda-Cyhalothrin	105		P	80 - 120
Methoprene	101		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	100		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	105		P	80 - 120
Phenothrin	104		P	80 - 120
Piperonyl Butoxide	86.1		P	80 - 120
Prallethrin	101		P	80 - 120
Tau-Fluvalinate	105		P	80 - 120
Tetramethrin	99.3		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	99.1		P	80 - 120
Trifluralin	98.5		P	80 - 120

Reference Method: EPA 8270E

Run ID: A112760

Included Lab Sample IDs: 2331702, 2331705

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112760

Included Lab Sample IDs: 2331702, 2331705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Octinoxate	96.2		P	80 - 120
Oxybenzone	94.8		P	80 - 120

Reference Method: EPA 8276

Run ID: A112840

Included Lab Sample IDs: 2331701, 2331703, 2331704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.6		P	80 - 120
Toxaphene	101		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112905

Included Lab Sample IDs: 2331689

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.9	99.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A112906

Included Lab Sample IDs: 2331688

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.5	102	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A112906

Included Lab Sample IDs: 2331688

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	98.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112908

Included Lab Sample IDs: 2331702

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.8		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	81.0		P	80 - 120
Atrazine	97.7		P	80 - 120
Atrazine Desethyl	93.3		P	80 - 120
Azoxystrobin	98.7		P	80 - 120
Bromacil	93.6		P	80 - 120
Butylate	99.9		P	80 - 120
Carfentrazone Ethyl	96.4		P	80 - 120
Chlorfenapyr	112		P	80 - 120
Cyanazine	87.5		P	80 - 120
Cyprodinil	90.3		P	80 - 120
Difenoconazole	88.0		P	80 - 120
Dimethenamid	98.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A112908
Included Lab Sample IDs: 2331702

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethomorph	96.9		P	80 - 120
Dithiopyr	97.0		P	80 - 120
EPTC	102		P	80 - 120
Etridiazole	92.0		P	80 - 120
Fenbuconazole	91.4		P	80 - 120
Fipronil	98.6		P	80 - 120
Fipronil Desulfinyl	98.2		P	80 - 120
Fipronil Sulfide	109		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	102		P	80 - 120
Flumioxazin	80.2		P	80 - 120
Flutolanil	88.8		P	80 - 120
Fluxapyroxad	97.1		P	80 - 120
Hexazinone	99.6		P	80 - 120
Imazalil	111		P	80 - 120
Iprodione	96.6		P	80 - 120
Loratadine	101		P	80 - 120
Metalaxyl	99.1		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	92.2		P	80 - 120
Molinate	103		P	80 - 120
Myclobutanil	104		P	80 - 120
Napropamide	93.1		P	80 - 120
Norflurazon	99.6		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	93.0		P	80 - 120
Pendimethalin	97.3		P	80 - 120
Phenytol	95.7		P	80 - 120
Prodiamine	86.3		P	80 - 120
Prometon	86.9		P	80 - 120
Prometryn	82.7		P	80 - 120
Pronamide	98.2		P	80 - 120
Propanil	91.6		P	80 - 120
Propargite	93.3		P	80 - 120
Propiconazole	93.5		P	80 - 120
Pyraflufen Ethyl	97.6		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	91.3		P	80 - 120
Simazine	95.1		P	80 - 120
Sulfentrazone	91.8		P	80 - 120
Tebuconazole	93.8		P	80 - 120
Terbutylazine	95.8		P	80 - 120
Thiobencarb	96.4		P	80 - 120
Triadimefon	103		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A112973
Included Lab Sample IDs: 2331689

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

Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112973

Included Lab Sample IDs: 2331689

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	108	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		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	102				2.58	
EPA 180.1 Rev. 2.0	Turbidity	96.6				2.03	
EPA 300.0 Rev. 2.1	Chloride	97.6	95.0	97.9		0.268	
	Sulfate	97.2	96.0	97.8		1.05	
EPA 350.1 Rev. 2.0	Ammonia-N	101	105	104			0.957
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106					
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	103	106	105			0.948
EPA 365.1 Rev. 2.0	Total-P	102	101	100			0.557
EPA 8270E	Acetochlor	76.7	78.7	94.0			17.6
	Acetochlor	95.9	104	85.4			19.6
	Alachlor	69.0	72.5	89.8			21.4
	Alachlor	86.7	96.1	76.9			22.2
	Aldrin	49.6	50.9	56.6			10.7
	Alpha-BHC	91.1	103	102			1.10
	Alpha-Chlordane	52.9	74.4	74.6			0.262
	Ametryn	67.4	74.0	81.1			9.16
	Ametryn	95.9	116	99.4			15.4
	Atrazine	77.9					3.83
	Atrazine	84.3					24.9
	Atrazine Desethyl	46.2	33.6	33.9			0.563
	Atrazine Desethyl	46.5	22.9	24.7			2.36
	Avobenzone	88.1	84.0	84.1			0.0828
	Azinphos Methyl	108	98.6	128			25.6
	Azoxystrobin	95.4	86.2	100			15.0
	Azoxystrobin	106	80.6	99.9			11.1
	Beta-BHC	85.4	78.1	71.9			8.33
	Beta-Cyfluthrin	70.6	45.1	37.7			17.8
	Bifenthrin	52.6	35.9	33.6			6.50
	Bromacil	58.1	54.8	58.0			5.77
	Bromacil	56.0	59.6	57.5			2.51
	Butylate	53.8	65.1	65.3			0.271
	Butylate	52.2	50.6	59.2			15.7
	Caffeine	98.4	97.4	94.5			2.95
	Carbophenothion	91.6	77.2	89.8			15.1
	Carbophenothion	50.9	31.9	20.6			43.3
	Carfentrazone Ethyl	83.1	84.4	92.3			8.94
	Carfentrazone Ethyl	114	125	100			22.1
	Chlorfenapyr	80.2	66.8	76.4			13.4
	Chlorfenapyr	85.9	83.5	85.7			2.67
	Chlorothalonil	104	84.8	82.5			2.80
	Chlorpyrifos Ethyl	86.9	73.6	87.3			17.1
	Chlorpyrifos Methyl	95.2	81.7	104			23.8
	Cis-Nonachlor	57.1	49.9	44.8			10.8
	Coumaphos	124	106	125			16.9
	Cyanazine	70.8	63.4	77.7			20.3
	Cyanazine	86.0	80.6	58.9			31.2
	Cypermethrin	73.5	46.9	36.4			25.1
	Cyprodinil	70.2	71.4	80.2			11.6
	Cyprodinil	84.4	90.6	76.5			16.8
	Dacthal	79.1	79.2	72.4			8.97
	DDD-p,p'	58.1	42.4	36.7			14.4
	DDE-p,p'	65.6	54.9	56.0			1.97
	DDT-p,p'	65.0	68.2	72.3			5.87
	Delta-BHC	98.5	139	139			0.446

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Deltamethrin	65.7	39.8	25.9			42.5
	Demeton	70.5	80.5	76.8			4.66
	Diazinon	81.3	88.3	98.1			10.5
	Dichlobenil	73.2	34.7	31.8			8.92
	Dicofol	189	188	142			27.7
	Dieldrin	57.8	65.2	65.9			1.08
	Difenoconazole	122	124	134			7.62
	Difenoconazole	141	170	99.9			51.8
	Dimethenamid	68.7	64.9	74.7			14.1
	Dimethenamid	77.7	87.1	66.7			26.4
	Dimethomorph	87.8	76.8	88.4			14.0
	Dimethomorph	94.3	88.4	142			46.3
	Disulfoton	83.3	70.8	91.7			25.7
	Dithiopyr	69.7	70.5	83.0			16.4
	Dithiopyr	88.3					12.0
	Endosulfan I	70.6	67.6	68.4			1.16
	Endosulfan II	76.9	93.7	95.7			2.12
	Endosulfan Sulfate	80.7	72.7	55.8			26.3
	Endrin	69.2	60.7	57.7			5.08
	Endrin Aldehyde	68.7	83.7	68.8			19.6
	Endrin Ketone	84.7	95.2	95.9			0.725
	EPTC	44.6	47.0	57.6			20.1
	EPTC	55.0	44.9	55.6			21.2
	Esfenvalerate	73.4	52.1	43.6			17.7
	Ethalfuralin	71.1	75.4	75.2			0.276
	Ethion	66.4	58.1	68.0			15.7
	Ethoprop	88.3	87.9	103			15.8
	Etridiazole	50.8	57.5	64.1			10.9
	Etridiazole	115	124	120			3.18
	Fenamiphos	90.1	78.2	77.4			1.03
	Fenbuconazole	95.7	96.9	112			14.7
	Fenbuconazole	110	124	92.3			26.8
	Fenpropathrin	65.9	56.6	61.4			8.10
	Fipronil	75.9	80.3	91.8			12.2
	Fipronil	91.5	103	86.5			16.4
	Fipronil Desulfinyl	71.1	75.4	88.7			14.3
	Fipronil Desulfinyl	89.5	95.7	81.8			12.4
	Fipronil Sulfide	74.2	70.2	80.5			11.1
	Fipronil Sulfide	90.8	87.8	81.9			5.88
	Fipronil Sulfone	85.2	80.2	90.5			8.29
	Fipronil Sulfone	99.2	91.7	74.4			16.1
	Fluazifop-P-butyl	82.4	86.9	95.5			9.44
	Fluazifop-P-butyl	95.5	103	85.6			18.7
	Fludioxonil	83.1	84.5	94.8			11.5
	Fludioxonil	93.4	97.1	76.2			24.2
	Flumioxazin	66.5	118	138			15.7
	Flumioxazin	132	158	82.7			62.5
	Flutolanil	72.9	71.5	85.0			17.3
	Flutolanil	88.9	91.9	72.5			19.9
	Fluxapyroxad	94.6	104	120			14.4
	Fluxapyroxad	115	131	78.9			45.4
	Fonofos	78.5	65.8	85.8			26.4
	Gamma-BHC	95.1	82.2	89.9			8.94
	Gamma-Chlordane	54.9	68.8	69.9			1.55

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Heptachlor	61.6	78.0	77.1			1.22
	Heptachlor Epoxide	59.1	71.4	67.3			6.04
	Hexachlorobenzene	58.0	65.2	61.6			5.64
	Hexazinone	85.2	81.0	92.4			13.2
	Hexazinone	91.1	88.2	70.9			13.2
	Imazalil	66.4	63.0	74.0			16.2
	Imazalil	80.9	73.8	75.7			2.54
	Iprodione	76.2	112	129			13.5
	Iprodione	115	140	112			22.0
	Kepone	86.6	176	105			50.8
	Lambda-Cyhalothrin	63.1	38.3	30.1			23.9
	Loratadine	85.4	81.5	94.3			14.5
	Loratadine	84.1	88.5	163			59.1
	Malathion	97.6	82.3	106			25.0
	Metalaxyl	64.2	61.9	69.4			11.4
	Metalaxyl	81.0	80.1	67.0			13.8
	Methoprene	59.9	57.6	66.1			13.6
	Methoxychlor	75.2	76.7	80.0			4.19
	Metolachlor	71.9	73.6	85.0			14.3
	Metolachlor	87.9	90.7	73.1			18.8
	Metribuzin	81.4	75.4	83.3			9.95
	Metribuzin	80.9	75.1	88.5			16.4
	Mevinphos	90.3	78.5	94.9			18.9
	MGK-264	73.7	71.2	62.0			13.9
	Mirex	55.2	43.6	51.7			16.9
	Molinate	60.8	76.6	67.1			13.2
	Molinate	73.0	73.0	69.6			4.69
	Myclobutanil	75.9	93.8	82.7			12.6
	Myclobutanil	99.5	98.9	75.8			20.4
	Naled	71.9	82.5	59.8			31.9
	Napropamide	61.3	68.8	57.1			18.7
	Napropamide	77.3	75.4	27.3			93.5
	Norflurazon	74.5	86.2	79.9			7.59
	Norflurazon	96.1					5.78
	Octinoxate	68.8	69.2	61.0			12.5
	Oxadiazon	67.4	74.7	66.0			10.6
	Oxadiazon	77.5					46.1
	Oxybenzone	67.7	72.1	65.1			10.2
	Oxychlordane	66.6	67.3	73.2			8.26
	Oxyfluorfen	86.9	118	101			14.9
	Oxyfluorfen	111	120	98.6			19.8
	Parathion Ethyl	79.0	98.1	80.4			19.9
	Parathion Methyl	104	119	96.3			20.8
	PCB-1016	106	80.8	73.8			9.04
	PCB-1260	80.9	80.3	82.9			3.20
	Pendimethalin	70.2	97.8	80.8			19.1
	Pendimethalin	91.7	105	93.8			11.4
	Permethrin	68.1	44.6	35.0			24.2
	Phenothrin	53.2	26.8	21.5			22.0
	Phenytol	16.9	47.3	39.2			18.7
	Phenytol	18.1	45.6	33.3			31.3
	Phorate	72.0	82.3	68.8			17.8
	Piperonyl Butoxide	87.4	67.1	48.8			31.5
	Prallethrin	64.7	57.2	40.9			33.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Prodiamine	62.3	88.8	73.8			18.4
	Prodiamine	97.9	101	90.0			9.72
	Prometon	70.6	80.3	64.1			22.5
	Prometon	95.4	106	95.4			10.3
	Prometryn	74.4	76.4	67.0			13.2
	Prometryn	76.8	84.8	75.2			12.0
	Pronamide	81.1	99.8	83.6			17.7
	Pronamide	94.9	101	79.7			23.9
	Propanil	74.5	85.4	77.1			10.2
	Propanil	79.4	81.7	70.3			15.0
	Propargite	91.5	111	96.3			14.3
	Propargite	110	115	66.8			53.0
	Propiconazole	74.6	93.0	86.1			7.66
	Propiconazole	96.1					10.6
	Pyraflufen Ethyl	87.2	103	90.0			13.8
	Pyraflufen Ethyl	107	122	103			17.4
	Pyridaben	115	113	101			11.3
	Pyridaben	128	116	95.7			18.8
	Pyriproxyfen	89.1	97.2	84.5			14.0
	Pyriproxyfen	106	105	25.0			123
	Simazine	80.7	108	99.4			8.08
	Simazine	75.1	190	178			6.79
	Stirophos	73.2	57.5	45.4			23.4
	Sulfentrazone	30.7	90.5	91.7			1.28
	Sulfentrazone	31.3					12.0
	Tau-Fluvalinate	66.7	38.2	28.0			30.8
	Tebuconazole	80.5	99.4	86.3			14.2
	Tebuconazole	100	102	50.5			54.4
	Terbufos	103	112	95.1			16.7
	Terbuthylazine	79.0	84.6	75.2			11.8
	Terbuthylazine	84.1	90.5	76.8			16.3
	Tetramethrin	82.1	52.6	41.8			22.9
	Thiobencarb	70.1	83.7	73.2			13.4
	Thiobencarb	81.6	84.6	70.9			17.6
	Trans-Nonachlor	60.3	54.4	50.4			7.62
	Triadimefon	67.2	64.2	62.0			3.45
	Triadimefon	80.7	75.2	66.9			11.7
	Triclosan Methyl	67.7	61.5	51.1			18.5
	Trifluralin	68.1	68.3	60.7			11.8
EPA 8276	Chlordane	91.3	91.5	88.0			3.87
	Toxaphene	113	120	123			2.72
EPA 8321B	2,4-D	99.5					0.530
	2,4,5-T	90.7	97.2	104			7.18
	3-Hydroxycarbofuran	82.1	88.7	97.6			9.55
	Acesulfame K	140	125	127			1.58
	Acetaminophen	85.8	110	110			0.0692
	Acetamiprid	82.0	83.9	75.6			10.4
	Afidopyropen	44.1	46.4	47.8			3.15
	Aldicarb	69.1	76.5	77.1			0.710
	Aldicarb Sulfone	103	125	117			6.60
	Aldicarb Sulfoxide	101	52.7	47.5			10.4
	AMPA	88.9	67.0	61.8			4.94
	Bentazon	90.9					
	Benzovindiflupyr	90.9	87.4	88.0			0.688

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Carbamazepine	97.5	110	108			1.45
	Carbaryl	84.4	73.8	69.3			6.34
	Carbofuran	96.4	82.1	77.0			6.34
	Clothianidin	93.8	119	118			0.345
	Dinotefuran	93.0	135	130			3.11
	Diuron	79.0	79.1	84.5			6.36
	Endothall	75.1	72.4	72.9			0.753
	Fenuron	90.4	83.8	81.5			2.78
	Fluridone	82.8	83.7	83.5			0.0989
	Glufosinate	101	92.8	82.8			11.4
	Glyphosate	90.7	79.9	97.2			9.62
	Hydrocodone	88.6	100	100			0.0943
	Ibuprofen	83.6	86.9	84.4			2.89
	Imazapyr	91.8					0.196
	Imidacloprid	87.1	147	137			5.86
	Linuron	71.9	72.7	69.7			4.22
	Mandestrobin	79.7	82.5	83.7			1.47
	MCPP	105	121	123			1.14
	Methiocarb	76.6	77.0	75.1			2.55
	Methomyl	87.9	86.4	81.9			5.42
	Naproxen	87.0	76.2	91.1			17.8
	Oxamyl	102	99.8	93.3			6.75
	Primidone	95.1	118	117			1.40
	Propoxur	91.9	85.3	81.7			4.36
	Pyraclostrobin	87.4	77.5	83.6			7.59
	Silvex	83.3	91.8	99.6			8.15
	Sucralose	113	108	112			3.90
	Thiamethoxam	89.1	140	134			4.75
	Tolfenpyrad	53.2	53.6	57.0			6.32
	Triclopyr	89.8	100	113			11.9
SM 2320 B-2011	Total Alkalinity	102				0.396	
SM 2540 C-2011	TDS					0.0	
SM 4500-F- C-2011	Fluoride	98.9	99.1	99.7			0.476
SM 5310 B-2011	Organic Carbon	93.2	96.9	96.7			0.140

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2331688
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2331688
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2331688
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2331688
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2331689
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2331689
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2331689
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2331689
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2331702, 2331705
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2331701, 2331703, 2331704
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2331702, 2331705
EPA 8270E	PCBs in water matrices by GC/MS/MS	2331701, 2331703, 2331704
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2331701, 2331703, 2331704
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2331696, 2331699

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2331697, 2331698, 2331700
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2331688
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2331688
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2331688
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2331688
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2331689

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	06/03/2022			06/03/2022 17:05	Anna M. Plaviak	2331688
EPA 180.1 Rev. 2.0	06/03/2022			06/03/2022 14:14	Khloe J Berg	2331688
EPA 300.0 Rev. 2.1	06/03/2022			06/09/2022 18:46	Anna M. Plaviak	2331688
EPA 350.1 Rev. 2.0	06/03/2022			06/17/2022 15:53	Ping Hua	2331689
EPA 351.2 Rev. 2.0	06/03/2022	06/20/2022 16:21	Samantha L Bates	06/21/2022 12:09	Alexandra J Mattheus	2331689
EPA 353.2 Rev. 2.0	06/03/2022			06/07/2022 17:09	Touraj Touran	2331689
EPA 365.1 Rev. 2.0	06/03/2022	06/08/2022 15:25	Adam P Silver	06/09/2022 16:49	James L Waggerby	2331689
EPA 8270E	06/03/2022	06/06/2022 08:00	Fe-Val Siddell	06/09/2022 19:52	Vandana T. Nagar	2331702
	06/03/2022	06/06/2022 08:00	Fe-Val Siddell	06/09/2022 20:19	Vandana T. Nagar	2331705
	06/03/2022	06/06/2022 08:00	Fe-Val Siddell	06/10/2022 22:15	Arthur Maknenko	2331702
	06/03/2022	06/06/2022 08:00	Fe-Val Siddell	06/10/2022 22:35	Arthur Maknenko	2331705
	06/03/2022	06/07/2022 08:00	Fe-Val Siddell	06/09/2022 18:56	Michael Poppell	2331701
	06/03/2022	06/07/2022 08:00	Fe-Val Siddell	06/09/2022 19:25	Michael Poppell	2331703
	06/03/2022	06/07/2022 08:00	Fe-Val Siddell	06/09/2022 19:55	Michael Poppell	2331704
	06/03/2022	06/07/2022 08:00	Fe-Val Siddell	06/10/2022 03:47	Arthur Maknenko	2331701
	06/03/2022	06/07/2022 08:00	Fe-Val Siddell	06/10/2022 04:17	Arthur Maknenko	2331703
	06/03/2022	06/07/2022 08:00	Fe-Val Siddell	06/10/2022 04:47	Arthur Maknenko	2331704
	06/03/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 18:15	Michael Poppell	2331702
	06/03/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 18:42	Michael Poppell	2331702
EPA 8276	06/03/2022	06/07/2022 08:00	Fe-Val Siddell	06/12/2022 08:07	Julie Wi	2331701
	06/03/2022	06/07/2022 08:00	Fe-Val Siddell	06/12/2022 09:03	Julie Wi	2331703
	06/03/2022	06/07/2022 08:00	Fe-Val Siddell	06/12/2022 09:58	Julie Wi	2331704
EPA 8321B	06/03/2022	06/06/2022 09:00	Hoor Shaik	06/07/2022 06:44	Juyoung Kim	2331697
	06/03/2022	06/06/2022 09:00	Hoor Shaik	06/07/2022 07:19	Juyoung Kim	2331698
	06/03/2022	06/06/2022 09:00	Hoor Shaik	06/07/2022 07:54	Juyoung Kim	2331700
	06/03/2022	06/06/2022 09:00	Hoor Shaik	06/07/2022 10:13	Juyoung Kim	2331700
	06/03/2022	06/06/2022 09:00	June Rhew	06/06/2022 18:34	Juyoung Kim	2331696
	06/03/2022	06/06/2022 09:00	June Rhew	06/06/2022 19:08	Juyoung Kim	2331699
	06/03/2022	06/07/2022 10:00	Umesh Chiluwal	06/07/2022 14:55	Umesh Chiluwal	2331697
	06/03/2022	06/07/2022 10:00	Umesh Chiluwal	06/07/2022 15:10	Umesh Chiluwal	2331698
	06/03/2022	06/07/2022 10:00	Umesh Chiluwal	06/07/2022 15:25	Umesh Chiluwal	2331700
	06/03/2022	06/07/2022 10:00	Umesh Chiluwal	06/07/2022 23:00	Umesh Chiluwal	2331697
	06/03/2022	06/07/2022 10:00	Umesh Chiluwal	06/07/2022 23:13	Umesh Chiluwal	2331698
	06/03/2022	06/07/2022 10:00	Umesh Chiluwal	06/07/2022 23:26	Umesh Chiluwal	2331700
SM 2320 B-2011	06/03/2022			06/16/2022 06:50	Dale L. Simmons	2331688
SM 2540 C-2011	06/03/2022			06/07/2022 14:33	Ping Hua	2331688
SM 2540 D-2011	06/03/2022			06/07/2022 14:32	Ping Hua	2331688
SM 4500-F- C-2011	06/03/2022			06/16/2022 06:50	Dale L. Simmons	2331688
SM 5310 B-2011	06/03/2022			06/06/2022 22:25	Khloe J Berg	2331689