

Chemical Analysis Report

SW-DIST-2022-09-22-01

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

Event Description: **Run 17 Pinellas North**
Request ID: **RQ-2022-09-19-14**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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

Date Certified: 14-OCT-2022 10:40

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: Cedar Crk @ Pinehurst

Collection Date/Time: 09/21/2022 13:10

Field ID: G5SW0129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358801	DEP SOP: NU-094-1	Color (true)	54		PCU	P420002	
	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P420012	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P420330	
		Sulfate	30		mg SO4/L	P420333	
	SM 2320 B-2011	Total Alkalinity	102		mg CaCO3/L	P420379	
	SM 2540 C-2011	TDS	398		mg/L	P420487	
	SM 2540 D-2011	TSS	2	I	mg/L	P420476	
	SM 4500-F- C-2011	Fluoride	0.41		mg F/L	P420383	
2358803	EPA 350.1 Rev. 2.0	Ammonia-N	0.060		mg N/L	P420735	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P420199	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.37		mg N/L	P420412	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P420231	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P420174	
2358805	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.094		mg P/L	P420006	
2358833	EPA 8321B	Aldicarb	0.020	U	ug/L	P420045	
		Aldicarb Sulfone	0.0020	U	ug/L	P420045	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P420045	
		Carbaryl	0.0020	U	ug/L	P420045	
		Carbofuran	0.0020	U	ug/L	P420045	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P420045	
		Methiocarb	0.0020	U	ug/L	P420045	
		Methomyl	0.0020	U	ug/L	P420045	
		Oxamyl	0.0020	U	ug/L	P420045	
		Propoxur	0.0020	U	ug/L	P420045	
2358835		2,4-D	66		ug/L	P420123	
		Acesulfame K	0.10	U	ug/L	P419980	
		2,4,5-T	0.0040	U	ug/L	P420123	
		AMPA	3.8		ug/L	P419980	
		Acetaminophen	0.0080	U	ug/L	P420123	
		Acetamiprid	0.0020	U	ug/L	P420123	
		Endothall	0.25	U	ug/L	P419980	
		Glufosinate	0.10	U	ug/L	P419980	
		Glyphosate	190		ug/L	P419980	
		Afidopyropen	0.0020	U	ug/L	P420123	
		Bentazon	0.26		ug/L	P420123	
		Sucralose	2.8		ug/L	P419980	
		Benzovindiflupyr	0.0020	U	ug/L	P420123	
		Carbamazepine	0.0010	I	ug/L	P420123	
		Clothianidin	0.033		ug/L	P420123	
		Dinotefuran	0.0020	U	ug/L	P420123	
		Diuron	0.0020	U	ug/L	P420123	
		Fenuron	0.032	U	ug/L	P420123	
		Fluridone	0.0031	I	ug/L	P420123	

Field ID: G5SW0129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358835	EPA 8321B	Imazapyr	0.33		ug/L	P420123	
		Hydrocodone	0.0020	U	ug/L	P420123	
		Ibuprofen	0.020	U	ug/L	P420123	
		Imidacloprid	0.093		ug/L	P420123	
		Linuron	0.0040	U	ug/L	P420123	
		Mandestrobin	0.0020	U	ug/L	P420123	
		MCPP	0.0056	I	ug/L	P420123	
		Naproxen	0.0080	U	ug/L	P420123	
		Primidone	0.017		ug/L	P420123	
		Pyraclostrobin	0.0020	U	ug/L	P420123	
		Silvex	0.0040	U	ug/L	P420123	
		Thiamethoxam	0.0022	I	ug/L	P420123	
		Tolfenpyrad	0.0020	U	ug/L	P420123	
		Triclopyr	0.0040	U	ug/L	P420123	
2358837	EPA 8270E	Aldrin	0.69	U	ng/L	P420039	
		Alpha-BHC	0.11	U	ng/L	P420039	
		Alpha-Chlordane	0.39	I	ng/L	P420039	
		PCB-1016	2.1	U	ng/L	P420039	
		Beta-BHC	0.11	U	ng/L	P420039	
		PCB-1221	2.1	U	ng/L	P420039	
		Beta-Cyfluthrin	1.3	U	ng/L	P420039	
		PCB-1232	2.1	U	ng/L	P420039	
		Bifenthrin	0.54	I	ng/L	P420039	
		PCB-1242	2.1	U	ng/L	P420039	
		PCB-1248	2.1	U	ng/L	P420039	
		Chlorothalonil	1.4	I	ng/L	P420039	
		PCB-1254	2.1	U	ng/L	P420039	
		Cis-Nonachlor	0.21	U	ng/L	P420039	
		PCB-1260	2.1	U	ng/L	P420039	
		Cypermethrin	1.6	U	ng/L	P420039	
		Dacthal	0.16	U	ng/L	P420039	
		DDD-p,p'	0.26	U	ng/L	P420039	
		DDE-p,p'	0.21	U	ng/L	P420039	
		DDT-p,p'	0.26	U	ng/L	P420039	
		Delta-BHC	0.42	U	ng/L	P420039	
		Deltamethrin	1.3	U	ng/L	P420039	
		Dichlobenil	0.33	I J	ng/L	P420039	CCV
		Dicofol	1.3	U	ng/L	P420039	
		Dieldrin	0.42	U	ng/L	P420039	
		Endosulfan I	0.42	U	ng/L	P420039	
		Endosulfan II	0.42	U	ng/L	P420039	
		Endosulfan Sulfate	0.32	U	ng/L	P420039	
		Endrin	0.42	U	ng/L	P420039	
		Endrin Aldehyde	0.79	U	ng/L	P420039	
		Endrin Ketone	0.42	U	ng/L	P420039	

Field ID: G5SW0129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358837	EPA 8270E	Esfenvalerate	0.79	U	ng/L	P420039	
		Ethalfuralin	0.16	U	ng/L	P420039	
		Fenpropathrin	0.26	U	ng/L	P420039	
		Gamma-BHC	0.13	U	ng/L	P420039	
		Gamma-Chlordane	0.28	I	ng/L	P420039	
		Heptachlor	0.21	U	ng/L	P420039	
		Heptachlor Epoxide	0.64	I	ng/L	P420039	
		Hexachlorobenzene**	1.1	U	ng/L	P420039	
		Kepone	5.8	I J	ng/L	P420039	LCS
		Lambda-Cyhalothrin	0.79	U	ng/L	P420039	
		Methoprene	0.79	U	ng/L	P420039	
		Methoxychlor	0.32	U	ng/L	P420039	
		MGK-264	0.21	U	ng/L	P420039	
		Mirex	0.37	U	ng/L	P420039	
		Oxychlordane	0.32	U	ng/L	P420039	
		Permethrin	1.7	U	ng/L	P420039	
		Phenothrin	0.95	U	ng/L	P420039	MS
		Piperonyl Butoxide	0.65	I	ng/L	P420039	
		Prallethrin	2.1	U	ng/L	P420039	
		Tau-Fluvalinate	0.26	U	ng/L	P420039	
		Tetramethrin	0.79	U	ng/L	P420039	
		Trans-Nonachlor	0.21	U	ng/L	P420039	
		Triclosan Methyl	0.16	U	ng/L	P420039	
		Trifluralin	0.21	U	ng/L	P420039	
	EPA 8276	Chlordane	3.2	I	ng/L	P420039	
	Toxaphene	16	U	ng/L	P420039		
2358839	EPA 8270E	Oxybenzone**	9.8	U	ng/L	P420144	
		Acetochlor	0.24	U	ng/L	P420144	
		Octinoxate**	20	U	ng/L	P420144	
		Alachlor	0.24	U	ng/L	P420144	
		Avobenzone**	98	U	ng/L	P420144	
		Ametryn	2.6		ng/L	P420144	
		Atrazine	1.9		ng/L	P420144	
		PBDE-47**	3.9	U	ng/L	P420144	
		Atrazine Desethyl	1.5	U	ng/L	P420144	
		PBDE-99**	4.9	U	ng/L	P420144	
		Azinphos Methyl	2.0	U	ng/L	P420144	
		Tri-o-cresyl Phosphate**	5.9	U	ng/L	P420144	
		Azoxystrobin	1.7	I	ng/L	P420144	
		Bromacil	8.5		ng/L	P420144	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P420144	
		Butylate	0.39	U	ng/L	P420144	
		Dechlorane Plus**	29	U	ng/L	P420144	
		Caffeine**	9.6	I	ng/L	P420144	

Field ID: G5SW0129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358839	EPA 8270E	Carbophenothion	0.20	U	ng/L	P420144	
		Carfentrazone Ethyl	0.098	U	ng/L	P420144	
		Chlorfenapyr	0.17	U	ng/L	P420144	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P420144	
		Chlorpyrifos Methyl	0.049	U	ng/L	P420144	
		Coumaphos	0.49	U	ng/L	P420144	
		Cyanazine	3.2	U	ng/L	P420144	
		Cyprodinil	0.098	U	ng/L	P420144	
		Demeton	1.5	U	ng/L	P420144	
		Diazinon	0.12	U	ng/L	P420144	
		Difenoconazole	0.59	U	ng/L	P420144	
		Dimethenamid	0.098	U	ng/L	P420144	
		Dimethomorph	0.17	U	ng/L	P420144	
		Disulfoton	0.49	U	ng/L	P420144	
		Dithiopyr	0.61	U	ng/L	P420144	
		EPTC	1.2	U	ng/L	P420144	
		Ethion	0.15	U	ng/L	P420144	
		Ethoprop	0.098	U	ng/L	P420144	
		Etridiazole	0.15	U	ng/L	P420144	
		Fenamiphos	0.49	U	ng/L	P420144	
		Fenbuconazole	0.12	U	ng/L	P420144	
		Fipronil	0.55	I	ng/L	P420144	
		Fipronil Desulfinyl**	1.4		ng/L	P420144	
		Fipronil Sulfide	1.9		ng/L	P420144	
		Fipronil Sulfone	4.3		ng/L	P420144	
		Fluazifop-P-butyl	0.098	U	ng/L	P420144	
		Fludioxonil	0.12	U	ng/L	P420144	
		Flumioxazin	4.4	U	ng/L	P420144	
		Flutolanil	0.098	U	ng/L	P420144	
		Fluxapyroxad	0.098	U	ng/L	P420144	
		Fonofos	0.20	U	ng/L	P420144	
		Hexazinone	0.49	U	ng/L	P420144	
		Imazalil	0.73	U	ng/L	P420144	
		Iprodione	0.59	U	ng/L	P420144	
		Loratadine**	0.34	U	ng/L	P420144	
		Malathion	0.34	U	ng/L	P420144	
		Metalaxyl	0.73	U	ng/L	P420144	
		Metolachlor	0.34	U	ng/L	P420144	
		Metribuzin	8.2		ng/L	P420144	
		Mevinphos	1.0	U	ng/L	P420144	
		Molinate	0.29	U	ng/L	P420144	
		Myclobutanil	0.89	I	ng/L	P420144	
		Naled	1.5	U	ng/L	P420144	
		Napropamide	0.39	U	ng/L	P420144	
		Norflurazon	0.49	U	ng/L	P420144	

Field ID: G5SW0129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358839	EPA 8270E	Oxadiazon	2.0		ng/L	P420144	
		Oxyfluorfen	0.15	U	ng/L	P420144	
		Parathion Ethyl	0.24	U	ng/L	P420144	
		Parathion Methyl	0.54	U	ng/L	P420144	
		Pendimethalin	0.98	U	ng/L	P420144	
		Phenytain**	3.4	U	ng/L	P420144	
		Phorate	0.51	U	ng/L	P420144	
		Prodiamine	0.17	U	ng/L	P420144	
		Prometon	0.88	U	ng/L	P420144	
		Prometryn	0.20	U	ng/L	P420144	RPD
		Pronamide	0.15	U	ng/L	P420144	
		Propanil	0.12	U	ng/L	P420144	
		Propargite	1.5	U	ng/L	P420144	
		Propiconazole	6.8		ng/L	P420144	
		Pyraflufen Ethyl	0.24	U	ng/L	P420144	
		Pyridaben	0.44	U	ng/L	P420144	RPD
		Pyriproxyfen	0.12	U	ng/L	P420144	
		Simazine	0.49	U	ng/L	P420144	
		Stirophos	0.12	U	ng/L	P420144	
		Sulfentrazone	20		ng/L	P420144	
		Tebuconazole	0.56	I	ng/L	P420144	
		Terbufos	0.098	U	ng/L	P420144	
		Terbutylazine	0.42	U	ng/L	P420144	
		Thiobencarb	0.59	U	ng/L	P420144	
		Triadimefon	0.52	I	ng/L	P420144	

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.
EPA 8321B: The surrogate 2,4-D-d3 recovery could not be assessed due to an elevated level of 2,4-D in the sample matrix.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Cedar Creek above Patricia Ave.

Collection Date/Time: 09/21/2022 14:30

Field ID: G5SW0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358802	DEP SOP: NU-094-1	Color (true)	63		PCU	P420002	
	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P420012	
	EPA 300.0 Rev. 2.1	Chloride	130		mg Cl/L	P420330	
		Sulfate	28		mg SO4/L	P420333	
	SM 2320 B-2011	Total Alkalinity	121		mg CaCO3/L	P420379	
	SM 2540 C-2011	TDS	415		mg/L	P420487	
	SM 2540 D-2011	TSS	3	I	mg/L	P420476	
	SM 4500-F- C-2011	Fluoride	0.37		mg F/L	P420383	
2358804	EPA 350.1 Rev. 2.0	Ammonia-N	0.070		mg N/L	P420735	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P420203	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.36		mg N/L	P420412	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P420231	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P420387	
2358806	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.084		mg P/L	P420006	
2358834	EPA 8321B	Aldicarb	0.020	U	ug/L	P420045	
		Aldicarb Sulfone	0.0020	U	ug/L	P420045	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P420045	
		Carbaryl	0.0020	U	ug/L	P420045	
		Carbofuran	0.0020	U	ug/L	P420045	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P420045	
		Methiocarb	0.0020	U	ug/L	P420045	
		Methomyl	0.0020	U	ug/L	P420045	
		Oxamyl	0.0020	U	ug/L	P420045	
		Propoxur	0.0020	U	ug/L	P420045	
		2,4-D	8.8		ug/L	P420123	
		Acesulfame K	0.10	U	ug/L	P419980	
2358836		2,4,5-T	0.0040	U	ug/L	P420123	
		AMPA	1.2		ug/L	P419980	
		Acetaminophen	0.0080	U	ug/L	P420123	
		Acetamiprid	0.0020	U	ug/L	P420123	
		Endothall	0.25	U	ug/L	P419980	
		Glufosinate	0.10	U	ug/L	P419980	
		Glyphosate	20		ug/L	P419980	
		Afidopyrophen	0.0020	U	ug/L	P420123	
		Bentazon	0.30		ug/L	P420123	
		Sucralose	2.4		ug/L	P419980	
		Benzovindiflupyr	0.0020	U	ug/L	P420123	
		Carbamazepine	0.0011	I	ug/L	P420123	
		Clothianidin	0.027		ug/L	P420123	
		Dinotefuran	0.0049	I	ug/L	P420123	
		Diuron	0.0020	U	ug/L	P420123	
		Fenuron	0.032	U	ug/L	P420123	
		Fluridone	0.016		ug/L	P420123	

Field ID: G5SW0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358836	EPA 8321B	Imazapyr	0.65		ug/L	P420123	
		Hydrocodone	0.0020	U	ug/L	P420123	
		Ibuprofen	0.020	U	ug/L	P420123	
		Imidacloprid	0.063		ug/L	P420123	
		Linuron	0.0040	U	ug/L	P420123	
		Mandestrobin	0.0020	U	ug/L	P420123	
		MCP	0.0023	I	ug/L	P420123	
		Naproxen	0.0080	U	ug/L	P420123	
		Primidone	0.016		ug/L	P420123	
		Pyraclostrobin	0.0020	U	ug/L	P420123	
		Silvex	0.0040	U	ug/L	P420123	
		Thiamethoxam	0.0020	I	ug/L	P420123	
		Tolfenpyrad	0.0020	U	ug/L	P420123	
		Triclopyr	0.0040	U	ug/L	P420123	
2358838	EPA 8270E	Aldrin	0.70	U	ng/L	P420039	
		Alpha-BHC	0.11	U	ng/L	P420039	
		Alpha-Chlordane	0.30	I	ng/L	P420039	
		PCB-1016	2.1	U	ng/L	P420039	
		Beta-BHC	0.11	U	ng/L	P420039	
		PCB-1221	2.1	U	ng/L	P420039	
		Beta-Cyfluthrin	1.3	U	ng/L	P420039	
		PCB-1232	2.1	U	ng/L	P420039	
		Bifenthrin	0.54	U	ng/L	P420039	
		PCB-1242	2.1	U	ng/L	P420039	
		PCB-1248	2.1	U	ng/L	P420039	
		Chlorothalonil	1.3	U	ng/L	P420039	
		PCB-1254	2.1	U	ng/L	P420039	
		Cis-Nonachlor	0.21	U	ng/L	P420039	
		PCB-1260	2.1	U	ng/L	P420039	
		Cypermethrin	1.6	U	ng/L	P420039	
		Dacthal	0.16	U	ng/L	P420039	
		DDD-p,p'	0.27	U	ng/L	P420039	
		DDE-p,p'	0.21	U	ng/L	P420039	
		DDT-p,p'	0.27	U	ng/L	P420039	
		Delta-BHC	0.43	U	ng/L	P420039	
		Deltamethrin	1.3	U	ng/L	P420039	
		Dichlobenil	0.27	UJ	ng/L	P420039	CCV
		Dicofol	1.3	U	ng/L	P420039	
		Dieldrin	0.99	I	ng/L	P420039	
		Endosulfan I	0.43	U	ng/L	P420039	
		Endosulfan II	0.43	U	ng/L	P420039	
		Endosulfan Sulfate	0.32	U	ng/L	P420039	
		Endrin	0.43	U	ng/L	P420039	
		Endrin Aldehyde	0.80	U	ng/L	P420039	
		Endrin Ketone	0.43	U	ng/L	P420039	

Field ID: G5SW0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358838	EPA 8270E	Esfenvalerate	0.80	U	ng/L	P420039	
		Ethalfuralin	0.16	U	ng/L	P420039	
		Fenpropathrin	0.27	U	ng/L	P420039	
		Gamma-BHC	0.13	U	ng/L	P420039	
		Gamma-Chlordane	0.21	U	ng/L	P420039	
		Heptachlor	0.21	U	ng/L	P420039	
		Heptachlor Epoxide	0.46	I	ng/L	P420039	
		Hexachlorobenzene**	1.1	U	ng/L	P420039	
		Kepone	13	I J	ng/L	P420039	LCS
		Lambda-Cyhalothrin	0.80	U	ng/L	P420039	
		Methoprene	0.80	U	ng/L	P420039	
		Methoxychlor	0.32	U	ng/L	P420039	
		MGK-264	0.21	U	ng/L	P420039	
		Mirex	0.38	U	ng/L	P420039	
		Oxychlordane	0.32	U	ng/L	P420039	
		Permethrin	1.7	U	ng/L	P420039	
		Phenothrin	0.97	UJ	ng/L	P420039	MS
		Piperonyl Butoxide	0.43	I	ng/L	P420039	
		Prallethrin	2.1	U	ng/L	P420039	
		Tau-Fluvalinate	0.27	U	ng/L	P420039	
		Tetramethrin	0.80	U	ng/L	P420039	
		Trans-Nonachlor	0.21	U	ng/L	P420039	
		Triclosan Methyl	0.16	U	ng/L	P420039	
		Trifluralin	0.21	U	ng/L	P420039	
	EPA 8276	Chlordane	2.7	I	ng/L	P420039	
	Toxaphene	16	U	ng/L	P420039		
2358840	EPA 8270E	Oxybenzone**	9.9	U	ng/L	P420144	
		Acetochlor	0.25	U	ng/L	P420144	
		Octinoxate**	20	U	ng/L	P420144	
		Alachlor	0.25	U	ng/L	P420144	
		Avobenzone**	99	U	ng/L	P420144	
		Ametryn	1.6	I	ng/L	P420144	
		Atrazine	1.5		ng/L	P420144	
		PBDE-47**	4.0	U	ng/L	P420144	
		Atrazine Desethyl	1.5	U	ng/L	P420144	
		PBDE-99**	5.0	U	ng/L	P420144	
		Azinphos Methyl	2.0	U	ng/L	P420144	
		Tri-o-cresyl Phosphate**	5.9	U	ng/L	P420144	
		Azoxystrobin	1.2	I	ng/L	P420144	
		Bromacil	3.5		ng/L	P420144	
		2-Ethylhexyl	12	U	ng/L	P420144	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.40	U	ng/L	P420144	
		Dechlorane Plus**	30	U	ng/L	P420144	
		Caffeine**	29	I	ng/L	P420144	

Field ID: G5SW0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358840	EPA 8270E	Carbophenothion	0.20	U	ng/L	P420144	
		Carfentrazone Ethyl	0.099	U	ng/L	P420144	
		Chlorfenapyr	0.17	U	ng/L	P420144	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P420144	
		Chlorpyrifos Methyl	0.050	U	ng/L	P420144	
		Coumaphos	0.50	U	ng/L	P420144	
		Cyanazine	3.2	U	ng/L	P420144	
		Cyprodinil	0.099	U	ng/L	P420144	
		Demeton	1.5	U	ng/L	P420144	
		Diazinon	0.12	U	ng/L	P420144	
		Difenoconazole	0.59	U	ng/L	P420144	
		Dimethenamid	0.099	U	ng/L	P420144	
		Dimethomorph	0.17	U	ng/L	P420144	
		Disulfoton	0.50	U	ng/L	P420144	
		Dithiopyr	0.62	U	ng/L	P420144	
		EPTC	1.2	U	ng/L	P420144	
		Ethion	0.15	U	ng/L	P420144	
		Ethoprop	0.099	U	ng/L	P420144	
		Etridiazole	0.15	U	ng/L	P420144	
		Fenamiphos	0.50	U	ng/L	P420144	
		Fenbuconazole	0.12	U	ng/L	P420144	
		Fipronil	0.51	I	ng/L	P420144	
		Fipronil Desulfinyl**	1.1		ng/L	P420144	
		Fipronil Sulfide	1.9		ng/L	P420144	
		Fipronil Sulfone	4.6		ng/L	P420144	
		Fluazifop-P-butyl	0.099	U	ng/L	P420144	
		Fludioxonil	0.12	U	ng/L	P420144	
		Flumioxazin	4.5	U	ng/L	P420144	
		Flutolanil	0.099	U	ng/L	P420144	
		Fluxapyroxad	0.099	U	ng/L	P420144	
		Fonofos	0.20	U	ng/L	P420144	
		Hexazinone	0.50	U	ng/L	P420144	
		Imazalil	0.74	U	ng/L	P420144	
		Iprodione	0.59	U	ng/L	P420144	
		Loratadine**	0.35	U	ng/L	P420144	
		Malathion	0.35	U	ng/L	P420144	
		Metalaxyl	0.74	U	ng/L	P420144	
		Metolachlor	0.35	U	ng/L	P420144	
		Metribuzin	5.3	I	ng/L	P420144	
		Mevinphos	1.0	U	ng/L	P420144	
		Molinate	0.30	U	ng/L	P420144	
		Myclobutanil	0.79	I	ng/L	P420144	
		Naled	1.5	U	ng/L	P420144	
		Napropamide	0.40	U	ng/L	P420144	
		Norflurazon	0.50	U	ng/L	P420144	

Field ID: G5SW0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2358840	EPA 8270E	Oxadiazon	2.2		ng/L	P420144	
		Oxyfluorfen	0.15	U	ng/L	P420144	
		Parathion Ethyl	0.25	U	ng/L	P420144	
		Parathion Methyl	0.54	U	ng/L	P420144	
		Pendimethalin	0.99	U	ng/L	P420144	
		Phenytain**	3.5	U	ng/L	P420144	
		Phorate	0.52	U	ng/L	P420144	
		Prodiamine	0.17	U	ng/L	P420144	
		Prometon	0.89	U	ng/L	P420144	
		Prometryn	0.20	U	ng/L	P420144	RPD
		Pronamide	0.15	U	ng/L	P420144	
		Propanil	0.12	U	ng/L	P420144	
		Propargite	1.5	U	ng/L	P420144	
		Propiconazole	5.6		ng/L	P420144	
		Pyraflufen Ethyl	0.25	U	ng/L	P420144	
		Pyridaben	0.45	U	ng/L	P420144	RPD
		Pyriproxyfen	0.12	U	ng/L	P420144	
		Simazine	0.50	U	ng/L	P420144	
		Stirophos	0.12	U	ng/L	P420144	
		Sulfentrazone	30		ng/L	P420144	
		Tebuconazole	0.50	U	ng/L	P420144	
		Terbufos	0.099	U	ng/L	P420144	
		Terbuthylazine	0.42	U	ng/L	P420144	
		Thiobencarb	0.59	U	ng/L	P420144	
		Triadimefon	0.36	I	ng/L	P420144	

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.
EPA 8321B: The surrogate 2,4-D-d3 recovery could not be assessed due to an elevated level of 2,4-D in the sample matrix.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P420002

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420012

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420330

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420333

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420735

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420199

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420203

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420412

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420231

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P420006

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P420039

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420039

Component	Result	Code	Units
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	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420039

Component	Result	Code	Units
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: P420144

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420144

Component	Result	Code	Units
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
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	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	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420144

Component	Result	Code	Units
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	0.35	U	ng/L
Loratadine	0.35	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	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytain	3.5	U	ng/L
Phenytain	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P420144

Component	Result	Code	Units
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
Stiophos	0.12	U	ng/L
Stiophos	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
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276
Batch ID: P420039

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: P419980

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P419980

Component	Result	Code	Units
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P420045

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: P420123

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	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P420379

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P420487

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P420476

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P420383

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P420174

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

Reference Method: SM 5310 B-2011
Batch ID: P420387

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: P420002

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420012

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420333

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420735

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420199

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	100		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420231

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	104		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P420006

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.4		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P420039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.7		P	10 - 92.0
Alpha-BHC	91.3		P	75 - 107
Alpha-Chlordane	60.6		P	50 - 108
Beta-BHC	107		P	36 - 138
Beta-Cyfluthrin	66.7		P	20 - 161
Bifenthrin	38.7		P	10 - 119
Chlorothalonil	152		P	26 - 186
Cis-Nonachlor	69.5		P	42 - 119
Cypermethrin	63.6		P	22 - 150
Dacthal	95.7		P	72 - 119
DDD-p,p'	74.0		P	45 - 107
DDE-p,p'	72.9		P	48 - 106
DDT-p,p'	65.2		P	48 - 110
Delta-BHC	131		P	54 - 140
Deltamethrin	62.4		P	22 - 189
Dichlobenil	104		P	36 - 117
Dicofol	79.6		P	46 - 155
Dieldrin	73.9		P	54 - 110
Endosulfan I	78.1		P	59 - 105
Endosulfan II	84.7		P	51 - 118
Endosulfan Sulfate	112		P	57 - 121
Endrin	78.0		P	10 - 120
Endrin Aldehyde	98.1		P	34 - 118
Endrin Ketone	101		P	69 - 177
Esfenvalerate	62.6		P	23 - 168
Ethalfuralin	67.8		P	49 - 99.0
Fenpropathrin	62.4		P	34 - 117
Gamma-BHC	94.4		P	72 - 117
Gamma-Chlordane	67.0		P	43 - 106
Heptachlor	58.1		P	41 - 98.0
Heptachlor Epoxide	76.5		P	57 - 106
Hexachlorobenzene	66.1		P	36 - 99.0
Kepone	229		F	16 - 215
Lambda-Cyhalothrin	49.2		P	21 - 177
Methoprene	47.3		P	10 - 119
Methoxychlor	71.7		P	60 - 112
MGK-264	94.7		P	26 - 122
Mirex	50.3		P	10 - 169
Oxychlordane	71.9		P	43 - 105
PCB-1016	84.8		P	48 - 112
PCB-1260	83.9		P	44 - 118
Permethrin	55.8		P	24 - 148
Phenothrin	42.1		P	10 - 106
Piperonyl Butoxide	104		P	10 - 139
Prallethrin	83.5		P	17 - 109
Tau-Fluvalinate	49.5		P	13 - 131

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P420039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tetramethrin	104		P	10 - 132
Trans-Nonachlor	69.4		P	44 - 106
Triclosan Methyl	82.8		P	59 - 109
Trifluralin	68.4		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P420144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	76.5		P	26 - 165
Acetochlor	91.1		P	69 - 123
Alachlor	77.5		P	65 - 118
Ametryn	76.7		P	58 - 141
Atrazine	88.8		P	73 - 118
Atrazine Desethyl	53.5		P	32 - 125
Avobenzone	74.3		P	37 - 178
Azinphos Methyl	94.6		P	36 - 197
Azoxystrobin	104		P	58 - 226
Bromacil	60.1		P	48 - 120
Butylate	53.9		P	27 - 85.0
Caffeine	90.8		P	40 - 137
Carbophenothion	81.1		P	54 - 132
Carfentrazone Ethyl	88.1		P	60 - 142
Chlorfenapyr	80.0		P	53 - 117
Chlorpyrifos Ethyl	87.8		P	59 - 116
Chlorpyrifos Methyl	99.8		P	66 - 119
Coumaphos	98.3		P	11 - 234
Cyanazine	88.9		P	61 - 248
Cyprodinil	79.3		P	50 - 147
Dechlorane Plus	108		P	50 - 150
Demeton	77.5		P	30 - 138
Diazinon	89.7		P	67 - 126
Difenoconazole	105		P	38 - 205
Dimethenamid	70.8		P	57 - 111
Dimethomorph	99.5		P	16 - 212
Disulfoton	100		P	46 - 126
Dithiopyr	81.3		P	62 - 115
EPTC	47.2		P	28 - 80.0
Ethion	67.6		P	24 - 122
Ethoprop	83.8		P	62 - 113
Etridiazole	46.4		P	28 - 92.0
Fenamiphos	95.0		P	57 - 128
Fenbuconazole	83.7		P	52 - 155
Fipronil	83.6		P	63 - 130
Fipronil Desulfinyl	81.3		P	61 - 130
Fipronil Sulfide	63.7		P	56 - 117
Fipronil Sulfone	68.0		P	52 - 118
Fluazifop-P-butyl	86.6		P	61 - 128
Fludioxonil	81.6		P	59 - 129
Flumioxazin	124		P	30 - 250
Flutolanil	79.5		P	53 - 127
Fluxapyroxad	79.9		P	42 - 132

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P420144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fonofos	88.2		P	61 - 110
Hexazinone	81.5		P	46 - 139
Imazalil	101		P	40 - 139
Iprodione	92.3		P	40 - 146
Loratadine	96.6		P	10 - 224
Malathion	106		P	61 - 135
Metalaxyl	76.9		P	58 - 121
Metolachlor	81.9		P	64 - 118
Metribuzin	99.5		P	45 - 245
Mevinphos	68.7		P	49 - 118
Molinate	68.4		P	42 - 92.0
Myclobutanil	81.4		P	55 - 127
Naled	93.6		P	10 - 114
Napropamide	69.8		P	39 - 121
Norflurazon	66.9		P	55 - 129
Octinoxate	68.0		P	21 - 159
Oxadiazon	69.6		P	54 - 115
Oxybenzone	69.0		P	41 - 142
Oxyfluorfen	103		P	64 - 139
Parathion Ethyl	89.4		P	70 - 111
Parathion Methyl	107		P	76 - 136
PBDE-47	67.6		P	27 - 144
PBDE-99	74.4		P	18 - 150
Pendimethalin	75.1		P	52 - 118
Phenytoin	18.2		P	10 - 162
Phorate	75.7		P	40 - 122
Prodiamine	42.0		P	26 - 141
Prometon	117		P	54 - 122
Prometryn	126		P	61 - 128
Pronamide	93.4		P	72 - 121
Propanil	79.4		P	45 - 144
Propargite	64.1		P	10 - 199
Propiconazole	65.5		P	56 - 127
Pyraflufen Ethyl	69.4		P	56 - 140
Pyridaben	94.9		P	26 - 211
Pyriproxyfen	74.2		P	33 - 194
Simazine	88.5		P	67 - 121
Stiropfos	67.4		P	20 - 142
Sulfentrazone	33.0		P	21 - 144
Tebuconazole	50.6		P	10 - 122
Terbufos	104		P	60 - 129
Terbutylazine	87.5		P	69 - 113
Thiobencarb	76.1		P	51 - 120
Tri-o-cresyl Phosphate	67.6		P	31 - 144
Triadimefon	83.5		P	56 - 114

Reference Method: EPA 8276
Batch ID: P420039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	77.5		P	61 - 116
Toxaphene	93.4		P	48 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P419980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.9		P	40 - 150
AMPA	112		P	40 - 150
Endothall	97.7		P	40 - 150
Glufosinate	91.2		P	40 - 150
Glyphosate	109		P	40 - 150
Sucralose	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P420045

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	80.8		P	30 - 160
Aldicarb	44.6		P	30 - 150
Aldicarb Sulfone	92.1		P	30 - 160
Aldicarb Sulfoxide	58.9		P	30 - 160
Carbaryl	64.8		P	30 - 160
Carbofuran	63.7		P	30 - 160
Methiocarb	74.0		P	30 - 160
Methomyl	83.5		P	30 - 160
Oxamyl	80.2		P	30 - 160
Propoxur	58.8		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P420123

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	74.2		P	30 - 160
2,4,5-T	62.5		P	30 - 160
Acetaminophen	87.8		P	30 - 150
Acetamiprid	79.9		P	30 - 160
Afidopyropen	70.6		P	30 - 160
Bentazon	38.2		P	30 - 150
Benzovindiflupyr	78.3		P	30 - 160
Carbamazepine	76.3		P	30 - 160
Clothianidin	91.9		P	30 - 160
Dinotefuran	95.4		P	30 - 160
Diuron	70.6		P	30 - 160
Fenuron	96.9		P	30 - 160
Fluridone	91.9		P	30 - 160
Hydrocodone	89.2		P	30 - 160
Ibuprofen	58.2		P	30 - 160
Imazapyr	82.9		P	30 - 160
Imidacloprid	120		P	30 - 160
Linuron	72.7		P	30 - 160
Mandestrobin	94.5		P	30 - 160
MCPP	78.3		P	30 - 160
Naproxen	70.0		P	30 - 160
Primidone	86.3		P	30 - 160
Pyraclostrobin	77.5		P	30 - 160
Silvex	63.2		P	30 - 160
Thiamethoxam	95.4		P	30 - 160
Tolfenpyrad	45.2		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P420123

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	66.9		P	30 - 160

Reference Method: SM 2320 B-2011
Batch ID: P420379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P420383

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P420174

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.9		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P420387

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358748	Chloride	93.5		P	90 - 110
2359074	Chloride	95.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420333

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358748	Sulfate	92.1		P	90 - 110
2359074	Sulfate	93.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358910	Ammonia-N	96.6	95.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358803	NO2NO3-N	95.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420231

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358977	Total-P	107	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P420006

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358750	O-Phosphate-P	99.5	101	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P420039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358838	Aldrin	60.1	52.4	P/P	20 - 82.0
2358838	Alpha-BHC	84.8	75.7	P/P	71 - 109
2358838	Alpha-Chlordane	52.0	48.5	P/P	42 - 106
2358838	Beta-BHC	94.9	87.3	P/P	69 - 180
2358838	Beta-Cyfluthrin	91.1	79.6	P/P	18 - 175
2358838	Bifenthrin	75.4	65.9	P/P	21 - 128
2358838	Chlorothalonil	159	134	P/P	10 - 300
2358838	Cis-Nonachlor	74.7	66.1	P/P	34 - 106
2358838	Cypermethrin	93.3	79.7	P/P	22 - 158
2358838	Dacthal	82.5	73.8	P/P	54 - 116
2358838	DDD-p,p'	71.0	63.0	P/P	34 - 107
2358838	DDE-p,p'	67.7	62.1	P/P	33 - 110
2358838	DDT-p,p'	66.0	59.7	P/P	50 - 122
2358838	Delta-BHC	113	101	P/P	77 - 193

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358838	Deltamethrin	116	79.4	P/P	10 - 195
2358838	Dichlobenil	77.6	65.7	P/P	25 - 113
2358838	Dicofol	81.4	74.2	P/P	38 - 247
2358838	Dieldrin	74.5	64.2	P/P	45 - 118
2358838	Endosulfan I	76.4	67.8	P/P	51 - 106
2358838	Endosulfan II	75.2	64.2	P/P	37 - 122
2358838	Endosulfan Sulfate	83.8	72.8	P/P	43 - 132
2358838	Endrin	71.6	65.0	P/P	29 - 101
2358838	Endrin Aldehyde	62.2	56.7	P/P	19 - 110
2358838	Endrin Ketone	87.4	69.5	P/P	60 - 140
2358838	Esfenvalerate	98.3	90.9	P/P	26 - 199
2358838	Ethalfuralin	71.1	61.5	P/P	45 - 99.0
2358838	Fenpropathrin	73.0	61.0	P/P	35 - 120
2358838	Gamma-BHC	94.8	87.5	P/P	63 - 128
2358838	Gamma-Chlordane	76.4	64.5	P/P	40 - 104
2358838	Heptachlor	67.5	58.2	P/P	36 - 97.0
2358838	Heptachlor Epoxide	72.3	63.8	P/P	49 - 184
2358838	Hexachlorobenzene	68.7	60.0	P/P	39 - 96.0
2358838	Kepone	182	143	P/P	10 - 217
2358838	Lambda-Cyhalothrin	87.7	75.0	P/P	21 - 193
2358838	Methoprene	79.0	73.5	P/P	20 - 106
2358838	Methoxychlor	71.1	59.0	P/P	53 - 118
2358838	MGK-264	86.9	75.6	P/P	40 - 118
2358838	Mirex	64.0	58.0	P/P	26 - 92.0
2358838	Oxychlordane	73.9	65.3	P/P	44 - 99.0
2358838	Permethrin	81.0	72.4	P/P	33 - 182
2358838	Phenothrin	131	137	F/F	10 - 129
2358838	Piperonyl Butoxide	91.3	84.6	P/P	10 - 211
2358838	Prallethrin	83.5	72.3	P/P	24 - 113
2358838	Tau-Fluvalinate	92.4	82.2	P/P	14 - 149
2358838	Tetramethrin	122	103	P/P	17 - 151
2358838	Trans-Nonachlor	72.3	64.0	P/P	42 - 102
2358838	Triclosan Methyl	76.0	66.0	P/P	48 - 108
2358838	Trifluralin	67.7	61.0	P/P	47 - 96.0
2358865	PCB-1016	101	91.5	P/P	46 - 111
2358865	PCB-1260	94.3	86.0	P/P	45 - 114

Reference Method: EPA 8270E

Batch ID: P420144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358759	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	53.3	65.5	P/P	26 - 165
2358759	Acetochlor	96.9	92.0	P/P	67 - 124
2358759	Alachlor	80.5	81.6	P/P	60 - 120
2358759	Ametryn	81.7	102	P/P	54 - 216
2358759	Atrazine	89.8	88.8	P/P	66 - 128
2358759	Atrazine Desethyl	39.3	35.2	P/P	15 - 122
2358759	Avobenzone	69.0	85.9	P/P	37 - 178
2358759	Azinphos Methyl	92.8	102	P/P	40 - 292
2358759	Azoxystrobin	112	111	P/P	35 - 220
2358759	Bromacil	57.8	53.4	P/P	45 - 127
2358759	Butylate	56.9	49.7	P/P	20 - 83.0

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358759	Caffeine	92.5	97.0	P/P	10 - 194
2358759	Carbophenothion	87.6	89.4	P/P	57 - 127
2358759	Carfentrazone Ethyl	88.5	88.0	P/P	51 - 141
2358759	Chlorfenapyr	76.3	79.2	P/P	46 - 111
2358759	Chlorpyrifos Ethyl	84.9	84.8	P/P	52 - 120
2358759	Chlorpyrifos Methyl	97.1	92.9	P/P	63 - 119
2358759	Coumaphos	63.0	62.1	P/P	10 - 228
2358759	Cyanazine	105	94.6	P/P	59 - 241
2358759	Cyprodinil	79.4	80.8	P/P	47 - 146
2358759	Dechlorane Plus	90.1	102	P/P	50 - 150
2358759	Demeton	79.6	81.5	P/P	40 - 136
2358759	Diazinon	87.9	90.8	P/P	69 - 132
2358759	Difenoconazole	112	105	P/P	57 - 258
2358759	Dimethenamid	75.0	74.9	P/P	54 - 110
2358759	Dimethomorph	123	127	P/P	28 - 210
2358759	Disulfoton	91.0	91.4	P/P	43 - 133
2358759	Dithiopyr	86.6	87.5	P/P	39 - 116
2358759	EPTC	48.8	48.9	P/P	20 - 78.0
2358759	Ethion	62.6	71.6	P/P	17 - 119
2358759	Ethoprop	85.9	91.1	P/P	66 - 120
2358759	Etridiazole	54.0	52.1	P/P	28 - 96.0
2358759	Fenamiphos	62.7	59.4	P/P	41 - 126
2358759	Fenbuconazole	78.5	69.1	P/P	42 - 169
2358759	Fipronil	89.9	89.2	P/P	61 - 132
2358759	Fipronil Desulfanyl	91.6	97.3	P/P	56 - 132
2358759	Fipronil Sulfide	69.7	74.2	P/P	48 - 119
2358759	Fipronil Sulfone	70.4	68.4	P/P	42 - 131
2358759	Fluazifop-P-butyl	88.6	89.2	P/P	53 - 131
2358759	Fludioxonil	85.1	79.6	P/P	56 - 127
2358759	Flumioxazin	125	124	P/P	19 - 300
2358759	Flutolanil	77.9	76.1	P/P	41 - 127
2358759	Fluxapyroxad	72.3	72.8	P/P	42 - 172
2358759	Fonofos	81.6	85.0	P/P	59 - 113
2358759	Hexazinone	86.4	88.3	P/P	66 - 122
2358759	Imazalil	84.1	74.0	P/P	21 - 283
2358759	Iprodione	85.6	82.9	P/P	43 - 150
2358759	Loratadine	119	120	P/P	23 - 201
2358759	Malathion	108	100	P/P	58 - 136
2358759	Metalaxyl	83.7	81.6	P/P	55 - 120
2358759	Metolachlor	86.5	81.5	P/P	57 - 121
2358759	Metribuzin	100	101	P/P	58 - 294
2358759	Mevinphos	73.5	73.3	P/P	50 - 126
2358759	Molinate	74.7	73.7	P/P	42 - 93.0
2358759	Myclobutanil	77.9	81.1	P/P	55 - 125
2358759	Naled	105	110	P/P	18 - 200
2358759	Napropamide	75.1	72.2	P/P	39 - 110
2358759	Norflurazon	66.9	65.4	P/P	48 - 128
2358759	Octinoxate	61.0	78.0	P/P	21 - 159
2358759	Oxadiazon	78.2	73.7	P/P	43 - 112
2358759	Oxybenzone	65.6	74.5	P/P	41 - 142
2358759	Oxyfluorfen	107	106	P/P	64 - 153
2358759	Parathion Ethyl	85.8	92.0	P/P	69 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358759	Parathion Methyl	111	112	P/P	79 - 139
2358759	PBDE-47	57.3	74.3	P/P	27 - 144
2358759	PBDE-99	51.9	66.1	P/P	18 - 150
2358759	Pendimethalin	77.4	82.2	P/P	50 - 139
2358759	Phenytoin	41.8	33.6	P/P	10 - 146
2358759	Phorate	73.6	86.7	P/P	54 - 161
2358759	Prodiamine	49.2	46.4	P/P	30 - 161
2358759	Prometon	115	113	P/P	45 - 134
2358759	Prometryn	79.0	45.6	P/P	45 - 137
2358759	Pronamide	103	98.0	P/P	65 - 133
2358759	Propanil	74.1	73.9	P/P	49 - 142
2358759	Propargite	61.4	66.6	P/P	10 - 203
2358759	Propiconazole	69.9	68.0	P/P	38 - 146
2358759	Pyraflufen Ethyl	76.7	71.5	P/P	34 - 153
2358759	Pyridaben	21.8	14.1	P/P	12 - 192
2358759	Pyriproxyfen	68.3	72.8	P/P	33 - 180
2358759	Simazine	79.9	88.6	P/P	51 - 157
2358759	Stirophos	59.1	61.4	P/P	10 - 128
2358759	Sulfentrazone	77.9	83.0	P/P	53 - 186
2358759	Tebuconazole	46.2	50.5	P/P	10 - 133
2358759	Terbufos	106	110	P/P	65 - 139
2358759	Terbuthylazine	89.5	95.1	P/P	66 - 117
2358759	Thiobencarb	73.9	77.7	P/P	51 - 119
2358759	Tri-o-cresyl Phosphate	60.9	74.3	P/P	31 - 144
2358759	Triadimefon	83.1	76.8	P/P	48 - 119

Reference Method: EPA 8276

Batch ID: P420039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358865	Chlordane	81.5	72.7	P/P	53 - 126
2358865	Toxaphene	97.7	81.4	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P419980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358851	Acesulfame K	86.6	88.8	P/P	40 - 150
2358851	AMPA	100	106	P/P	40 - 150
2358851	Endothall	126	130	P/P	40 - 150
2358851	Glufosinate	85.2	67.6	P/P	40 - 150
2358851	Glyphosate	85.1	90.0	P/P	40 - 150
2358851	Sucralose	104	104	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P420045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357537	3-Hydroxycarbofuran	91.7	86.8	P/P	30 - 160
2357537	Aldicarb	37.4	42.1	P/P	30 - 150
2357537	Aldicarb Sulfone	107	102	P/P	30 - 160
2357537	Aldicarb Sulfoxide	33.1	30.1	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P420045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357537	Carbaryl	62.8	60.7	P/P	30 - 160
2357537	Carbofuran	56.6	56.6	P/P	30 - 160
2357537	Methiocarb	80.7	79.9	P/P	30 - 160
2357537	Methomyl	80.8	78.9	P/P	30 - 160
2357537	Oxamyl	84.4	81.1	P/P	30 - 160
2357537	Propoxur	57.6	53.6	P/P	30 - 160

Reference Method: EPA 8321B

Batch ID: P420123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358657	2,4-D	89.5	87.7	P/P	30 - 160
2358657	2,4,5-T	84.3	82.8	P/P	30 - 160
2358657	Acetaminophen	106	105	P/P	30 - 150
2358657	Acetamiprid	88.4	86.3	P/P	30 - 160
2358657	Afidopyropen	85.5	86.0	P/P	30 - 160
2358657	Bentazon	42.2	38.5	P/P	30 - 150
2358657	Benzovindiflupyr	84.1	84.6	P/P	30 - 160
2358657	Carbamazepine	77.5	74.1	P/P	30 - 160
2358657	Clothianidin	109	107	P/P	30 - 160
2358657	Dinotefuran	97.1	116	P/P	30 - 160
2358657	Diuron	73.5	74.4	P/P	30 - 160
2358657	Fenuron	93.2	93.3	P/P	30 - 160
2358657	Fluridone	95.5	95.1	P/P	30 - 160
2358657	Hydrocodone	102	101	P/P	30 - 160
2358657	Ibuprofen	75.8	63.9	P/P	30 - 160
2358657	Imazapyr	96.0	97.8	P/P	30 - 160
2358657	Imidacloprid	122	125	P/P	30 - 160
2358657	Linuron	76.9	80.4	P/P	30 - 160
2358657	Mandestrobin	97.4	100	P/P	30 - 160
2358657	MCP	93.6	92.0	P/P	30 - 160
2358657	Naproxen	101	96.4	P/P	30 - 160
2358657	Primidone	91.6	96.3	P/P	30 - 160
2358657	Pyraclostrobin	86.8	87.4	P/P	30 - 160
2358657	Silvex	77.8	75.1	P/P	30 - 160
2358657	Thiamethoxam	122	125	P/P	30 - 160
2358657	Tolfenpyrad	46.8	47.6	P/P	30 - 160
2358657	Triclopyr	87.2	85.6	P/P	30 - 160

Reference Method: SM 4500-F- C-2011

Batch ID: P420383

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358674	Fluoride	100	100	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P420174

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358433	Organic Carbon	97.5	98.3	P/P	85 - 115

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P420387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358936	Organic Carbon	100	97.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P420002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358748	Color (true)	2.13	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420012

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358721	Turbidity	9.16	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358748	Chloride	0.236	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358748	Sulfate	0.0504	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358910	Ammonia-N	0.922	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359611	Kjeldahl Nitrogen	0.562	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359128	Kjeldahl Nitrogen	1.26	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358803	NO2NO3-N	0.175	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P420231

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358977	Total-P	1.63	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P420006

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358750	O-Phosphate-P	1.40	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P420039

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358838	Aldrin	13.7	Spike	P	0 - 41
2358838	Alpha-BHC	11.3	Spike	P	0 - 25
2358838	Alpha-Chlordane	5.87	Spike	P	0 - 33
2358838	Beta-BHC	8.32	Spike	P	0 - 36
2358838	Beta-Cyfluthrin	13.4	Spike	P	0 - 42
2358838	Bifenthrin	13.4	Spike	P	0 - 53
2358838	Chlorothalonil	17.1	Spike	P	0 - 71
2358838	Cis-Nonachlor	12.2	Spike	P	0 - 29
2358838	Cypermethrin	15.7	Spike	P	0 - 40
2358838	Dacthal	11.1	Spike	P	0 - 26
2358838	DDD-p,p'	11.9	Spike	P	0 - 39
2358838	DDE-p,p'	8.69	Spike	P	0 - 33
2358838	DDT-p,p'	9.95	Spike	P	0 - 40
2358838	Delta-BHC	11.9	Spike	P	0 - 37
2358838	Deltamethrin	37.4	Spike	P	0 - 100
2358838	Dichlobenil	16.7	Spike	P	0 - 40
2358838	Dicofol	9.35	Spike	P	0 - 31
2358838	Dieldrin	13.6	Spike	P	0 - 27
2358838	Endosulfan I	11.9	Spike	P	0 - 23
2358838	Endosulfan II	15.7	Spike	P	0 - 28
2358838	Endosulfan Sulfate	14.1	Spike	P	0 - 38
2358838	Endrin	9.61	Spike	P	0 - 63
2358838	Endrin Aldehyde	9.31	Spike	P	0 - 60
2358838	Endrin Ketone	22.9	Spike	P	0 - 37
2358838	Esfenvalerate	7.84	Spike	P	0 - 52
2358838	Ethalfuralin	14.5	Spike	P	0 - 23
2358838	Fenpropathrin	17.9	Spike	P	0 - 32
2358838	Gamma-BHC	8.02	Spike	P	0 - 17
2358838	Gamma-Chlordane	16.9	Spike	P	0 - 40
2358838	Heptachlor	14.8	Spike	P	0 - 29
2358838	Heptachlor Epoxide	10.4	Spike	P	0 - 25
2358838	Hexachlorobenzene	13.6	Spike	P	0 - 36
2358838	Kepone	18.4	Spike	P	0 - 93
2358838	Lambda-Cyhalothrin	15.6	Spike	P	0 - 55
2358838	Methoprene	7.19	Spike	P	0 - 53
2358838	Methoxychlor	18.7	Spike	P	0 - 29
2358838	MGK-264	13.9	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P420039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358838	Mirex	9.89	Spike	P	0 - 46
2358838	Oxychlordane	12.4	Spike	P	0 - 29
2358838	Permethrin	11.1	Spike	P	0 - 44
2358838	Phenothrin	4.45	Spike	P	0 - 56
2358838	Piperonyl Butoxide	6.73	Spike	P	0 - 100
2358838	Prallethrin	14.4	Spike	P	0 - 42
2358838	Tau-Fluvalinate	11.7	Spike	P	0 - 54
2358838	Tetramethrin	16.7	Spike	P	0 - 51
2358838	Trans-Nonachlor	12.1	Spike	P	0 - 37
2358838	Triclosan Methyl	14.2	Spike	P	0 - 31
2358838	Trifluralin	10.3	Spike	P	0 - 30
2358865	PCB-1016	9.68	Spike	P	0 - 32
2358865	PCB-1260	9.17	Spike	P	0 - 31

Reference Method: EPA 8270E
Batch ID: P420144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358759	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.5	Spike	P	0 - 37
2358759	Acetochlor	5.27	Spike	P	0 - 28
2358759	Alachlor	1.41	Spike	P	0 - 30
2358759	Ametryn	22.4	Spike	P	0 - 32
2358759	Atrazine	0.572	Spike	P	0 - 41
2358759	Atrazine Desethyl	8.47	Spike	P	0 - 36
2358759	Avobenzene	21.9	Spike	P	0 - 36
2358759	Azinphos Methyl	9.01	Spike	P	0 - 75
2358759	Azoxystrobin	0.414	Spike	P	0 - 39
2358759	Bromacil	5.87	Spike	P	0 - 33
2358759	Butylate	13.5	Spike	P	0 - 44
2358759	Caffeine	4.83	Spike	P	0 - 74
2358759	Carbophenothion	2.01	Spike	P	0 - 25
2358759	Carfentrazone Ethyl	0.585	Spike	P	0 - 27
2358759	Chlorfenapyr	3.73	Spike	P	0 - 24
2358759	Chlorpyrifos Ethyl	0.0199	Spike	P	0 - 26
2358759	Chlorpyrifos Methyl	4.34	Spike	P	0 - 26
2358759	Coumaphos	1.50	Spike	P	0 - 28
2358759	Cyanazine	10.3	Spike	P	0 - 48
2358759	Cyprodinil	1.82	Spike	P	0 - 29
2358759	Dechlorane Plus	12.0	Spike	P	0 - 30
2358759	Demeton	2.41	Spike	P	0 - 33
2358759	Diazinon	3.28	Spike	P	0 - 29
2358759	Difenoconazole	6.53	Spike	P	0 - 34
2358759	Dimethenamid	0.138	Spike	P	0 - 39
2358759	Dimethomorph	2.77	Spike	P	0 - 51
2358759	Disulfoton	0.495	Spike	P	0 - 30
2358759	Dithiopyr	1.09	Spike	P	0 - 26
2358759	EPTC	0.184	Spike	P	0 - 43
2358759	Ethion	13.4	Spike	P	0 - 79
2358759	Ethoprop	5.89	Spike	P	0 - 29
2358759	Etridiazole	3.65	Spike	P	0 - 33

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P420144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358759	Fenamiphos	5.33	Spike	P	0 - 40
2358759	Fenbuconazole	11.8	Spike	P	0 - 74
2358759	Fipronil	0.775	Spike	P	0 - 29
2358759	Fipronil Desulfinyl	6.05	Spike	P	0 - 32
2358759	Fipronil Sulfide	6.28	Spike	P	0 - 30
2358759	Fipronil Sulfone	2.52	Spike	P	0 - 33
2358759	Fluazifop-P-butyl	0.656	Spike	P	0 - 38
2358759	Fludioxonil	6.61	Spike	P	0 - 29
2358759	Flumioxazin	1.28	Spike	P	0 - 51
2358759	Flutolanil	2.33	Spike	P	0 - 25
2358759	Fluxapyroxad	0.658	Spike	P	0 - 45
2358759	Fonofos	4.07	Spike	P	0 - 27
2358759	Hexazinone	2.20	Spike	P	0 - 30
2358759	Imazalil	12.8	Spike	P	0 - 100
2358759	Iprodione	3.25	Spike	P	0 - 33
2358759	Loratadine	0.615	Spike	P	0 - 56
2358759	Malathion	7.39	Spike	P	0 - 37
2358759	Metalaxyl	2.57	Spike	P	0 - 40
2358759	Metolachlor	5.69	Spike	P	0 - 29
2358759	Metribuzin	0.382	Spike	P	0 - 45
2358759	Mevinphos	0.288	Spike	P	0 - 29
2358759	Molinate	1.32	Spike	P	0 - 33
2358759	Myclobutanil	4.06	Spike	P	0 - 26
2358759	Naled	5.13	Spike	P	0 - 37
2358759	Napropamide	3.96	Spike	P	0 - 44
2358759	Norflurazon	2.09	Spike	P	0 - 30
2358759	Octinoxate	24.6	Spike	P	0 - 45
2358759	Oxadiazon	6.00	Spike	P	0 - 28
2358759	Oxybenzone	12.7	Spike	P	0 - 46
2358759	Oxyfluorfen	0.988	Spike	P	0 - 28
2358759	Parathion Ethyl	6.94	Spike	P	0 - 31
2358759	Parathion Methyl	0.490	Spike	P	0 - 29
2358759	PBDE-47	25.8	Spike	P	0 - 36
2358759	PBDE-99	24.1	Spike	P	0 - 40
2358759	Pendimethalin	5.92	Spike	P	0 - 33
2358759	Phenytoin	21.8	Spike	P	0 - 100
2358759	Phorate	16.3	Spike	P	0 - 36
2358759	Prodiamine	5.71	Spike	P	0 - 71
2358759	Prometon	1.31	Spike	P	0 - 36
2358759	Prometryn	53.6	Spike	F	0 - 28
2358759	Pronamide	5.06	Spike	P	0 - 24
2358759	Propanil	0.290	Spike	P	0 - 28
2358759	Propargite	8.11	Spike	P	0 - 43
2358759	Propiconazole	2.37	Spike	P	0 - 33
2358759	Pyraflufen Ethyl	7.02	Spike	P	0 - 29
2358759	Pyridaben	43.2	Spike	F	0 - 30
2358759	Pyriproxyfen	6.36	Spike	P	0 - 79
2358759	Simazine	7.30	Spike	P	0 - 29
2358759	Stirophos	3.88	Spike	P	0 - 61
2358759	Sulfentrazone	6.28	Spike	P	0 - 33
2358759	Tebuconazole	8.11	Spike	P	0 - 69

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P420144

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358759	Terbufos	3.07	Spike	P	0 - 29
2358759	Terbutylazine	6.01	Spike	P	0 - 32
2358759	Thiobencarb	5.02	Spike	P	0 - 26
2358759	Tri-o-cresyl Phosphate	19.8	Spike	P	0 - 33
2358759	Triadimefon	7.87	Spike	P	0 - 28

Reference Method: EPA 8276

Batch ID: P420039

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358865	Chlordane	11.3	Spike	P	0 - 25
2358865	Toxaphene	18.2	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P419980

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358851	Acesulfame K	2.46	Spike	P	0 - 30
2358851	AMPA	5.11	Spike	P	0 - 30
2358851	Endothall	2.70	Spike	P	0 - 30
2358851	Glufosinate	23.1	Spike	P	0 - 30
2358851	Glyphosate	5.63	Spike	P	0 - 30
2358851	Sucralose	0.187	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P420045

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357537	3-Hydroxycarbofuran	5.46	Spike	P	0 - 30
2357537	Aldicarb	11.9	Spike	P	0 - 30
2357537	Aldicarb Sulfone	4.51	Spike	P	0 - 30
2357537	Aldicarb Sulfoxide	9.64	Spike	P	0 - 30
2357537	Carbaryl	3.34	Spike	P	0 - 30
2357537	Carbofuran	0.0422	Spike	P	0 - 30
2357537	Methiocarb	1.05	Spike	P	0 - 30
2357537	Methomyl	2.40	Spike	P	0 - 30
2357537	Oxamyl	3.98	Spike	P	0 - 30
2357537	Propoxur	7.12	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P420123

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358657	2,4-D	1.88	Spike	P	0 - 30
2358657	2,4,5-T	1.81	Spike	P	0 - 30
2358657	Acetaminophen	0.379	Spike	P	0 - 30
2358657	Acetamiprid	2.35	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P420123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358657	Afidopyropen	0.608	Spike	P	0 - 30
2358657	Bentazon	8.16	Spike	P	0 - 30
2358657	Benzovindiflupyr	0.571	Spike	P	0 - 30
2358657	Carbamazepine	4.47	Spike	P	0 - 30
2358657	Clothianidin	1.60	Spike	P	0 - 30
2358657	Dinotefuran	17.4	Spike	P	0 - 30
2358657	Diuron	1.16	Spike	P	0 - 30
2358657	Fenuron	0.0381	Spike	P	0 - 30
2358657	Fluridone	0.511	Spike	P	0 - 30
2358657	Hydrocodone	0.646	Spike	P	0 - 30
2358657	Ibuprofen	17.0	Spike	P	0 - 30
2358657	Imazapyr	1.61	Spike	P	0 - 30
2358657	Imidacloprid	2.34	Spike	P	0 - 30
2358657	Linuron	4.39	Spike	P	0 - 30
2358657	Mandestrobin	2.67	Spike	P	0 - 30
2358657	MCPP	1.69	Spike	P	0 - 30
2358657	Naproxen	4.32	Spike	P	0 - 30
2358657	Primidone	5.05	Spike	P	0 - 30
2358657	Pyraclostrobin	0.623	Spike	P	0 - 30
2358657	Silvex	3.52	Spike	P	0 - 30
2358657	Thiamethoxam	2.16	Spike	P	0 - 30
2358657	Tolfenpyrad	1.58	Spike	P	0 - 30
2358657	Triclopyr	1.83	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P420379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358674	Total Alkalinity	1.87	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P420487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358674	TDS	3.48	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P420383

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358674	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P420174

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358433	Organic Carbon	0.693	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: SM 5310 B-2011

Batch ID: P420387

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358936	Organic Carbon	1.71	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2358833
Field Sample ID: G5SW0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	51.5	P	30 - 160

Lab Sample ID: 2358834
Field Sample ID: G5SW0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	52.5	P	30 - 160

Lab Sample ID: 2358835
Field Sample ID: G5SW0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.8	P	30 - 160
EPA 8321B	Diuron-d6	59.7	P	30 - 160
EPA 8321B	Endothall-d6	86.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	111	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.1	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	95.5	P	30 - 160

Lab Sample ID: 2358836
Field Sample ID: G5SW0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	64.3	P	30 - 160
EPA 8321B	Diuron-d6	62.0	P	30 - 160
EPA 8321B	Endothall-d6	93.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.0	P	30 - 160
EPA 8321B	Primidone-d5	106	P	30 - 160
EPA 8321B	Sucralose-d6	93.7	P	30 - 160

Lab Sample ID: 2358837
Field Sample ID: G5SW0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	103	P	29 - 130
EPA 8270E	Decachlorobiphenyl	80.0	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	73.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	62.9	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	68.3	P	30 - 101
EPA 8276	PCNB	97.2	P	48 - 121

Lab Sample ID: 2358838
Field Sample ID: G5SW0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	91.6	P	29 - 130
EPA 8270E	Decachlorobiphenyl	70.2	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	58.3	P	29 - 104

Quality Assurance Report Surrogates

Lab Sample ID: 2358838
Field Sample ID: G5SW0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Tetrachloro-m-xylene	48.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	66.9	P	30 - 101
EPA 8276	PCNB	73.7	P	48 - 121

Lab Sample ID: 2358839
Field Sample ID: G5SW0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	58.3	P	20 - 200
EPA 8270E	Simazine-d10	109	P	62 - 142
EPA 8270E	Terbufos-d10	94.1	P	58 - 132
EPA 8270E	Terphenyl-d14	75.6	P	52 - 137

Lab Sample ID: 2358840
Field Sample ID: G5SW0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	55.2	P	20 - 200
EPA 8270E	Simazine-d10	85.8	P	62 - 142
EPA 8270E	Terbufos-d10	84.0	P	58 - 132
EPA 8270E	Terphenyl-d14	70.2	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A114895

Included Lab Sample IDs: 2358801, 2358802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A114896

Included Lab Sample IDs: 2358805, 2358806

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.3	99.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114898

Included Lab Sample IDs: 2358801, 2358802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: SM 5310 B-2011

Run ID: A114964

Included Lab Sample IDs: 2358803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	97.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114978

Included Lab Sample IDs: 2358835, 2358836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	113	P/P	60 - 160
Endothall	79.8	85.8	P/P	60 - 160
Glufosinate	77.0	83.2	P/P	60 - 160
Glyphosate	109	112	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114979

Included Lab Sample IDs: 2358835, 2358836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	109	111	P/P	60 - 160
Sucralose	106	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114983

Included Lab Sample IDs: 2358835, 2358836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.9	87.1	P/P	50 - 150
2,4,5-T	88.4	94.7	P/P	50 - 150
3-Hydroxycarbofuran	103	99.9	P/P	60 - 150
Acetaminophen	95.8	99.4	P/P	60 - 160
Acetamiprid	99.7	102	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A114983

Included Lab Sample IDs: 2358835, 2358836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	93.5	103	P/P	50 - 150
Aldicarb	124	125	P/P	60 - 150
Aldicarb Sulfone	117	115	P/P	50 - 150
Aldicarb Sulfoxide	109	131	P/P	50 - 150
Bentazon	98.7	110	P/P	50 - 160
Benzovindiflupyr	100	106	P/P	50 - 150
Carbamazepine	99.8	105	P/P	60 - 150
Carbaryl	99.8	105	P/P	60 - 150
Carbofuran	98.6	99.6	P/P	50 - 150
Clothianidin	100	102	P/P	60 - 150
Dinotefuran	101	107	P/P	50 - 150
Diuron	103	113	P/P	60 - 160
Fenuron	103	104	P/P	60 - 150
Fluridone	106	109	P/P	60 - 160
Hydrocodone	98.6	103	P/P	60 - 150
Ibuprofen	72.8	85.0	P/P	50 - 160
Imazapyr	89.2	92.2	P/P	50 - 150
Imidacloprid	90.3	96.6	P/P	60 - 150
Linuron	111	105	P/P	60 - 150
Mandestrobin	95.6	108	P/P	50 - 150
MCPP	91.0	92.8	P/P	50 - 150
Methiocarb	85.4	115	P/P	50 - 150
Methomyl	108	108	P/P	50 - 150
Naproxen	61.6	95.1	P/P	50 - 160
Oxamyl	106	104	P/P	50 - 150
Primidone	101	104	P/P	60 - 150
Propoxur	99.8	102	P/P	50 - 150
Pyraclostrobin	101	107	P/P	60 - 150
Silvex	83.9	103	P/P	50 - 150
Thiamethoxam	100	105	P/P	50 - 150
Tolfenpyrad	97.6	100	P/P	60 - 150
Triclopyr	96.5	92.7	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114999

Included Lab Sample IDs: 2358801, 2358802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.0	99.7	P/P	90 - 110
Sulfate	99.0	99.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115018

Included Lab Sample IDs: 2358803, 2358804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A115020

Included Lab Sample IDs: 2358837, 2358838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	116		P	80 - 120

Reference Method: EPA 8270E

Run ID: A115021

Included Lab Sample IDs: 2358837, 2358838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.5		P	80 - 120
Alpha-BHC	97.3		P	80 - 120
Alpha-Chlordane	83.0		P	80 - 120
Beta-BHC	94.0		P	80 - 120
Beta-Cyfluthrin	95.7		P	80 - 120
Bifenthrin	97.9		P	80 - 120
Chlorothalonil	107		P	80 - 120
Cis-Nonachlor	95.9		P	80 - 120
Cypermethrin	99.5		P	80 - 120
Dacthal	99.0		P	80 - 120
DDD-p,p'	96.5		P	80 - 120
DDE-p,p'	95.5		P	80 - 120
DDT-p,p'	99.5		P	80 - 120
Delta-BHC	99.7		P	80 - 120
Deltamethrin	97.7		P	80 - 120
Dichlobenil	47.0*		F	80 - 120
Dicofol	96.6		P	80 - 120
Dieldrin	99.3		P	80 - 120
Endosulfan I	98.3		P	80 - 120
Endosulfan II	99.3		P	80 - 120
Endosulfan Sulfate	93.1		P	80 - 120
Endrin	98.1		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	98.9		P	80 - 120
Esfenvalerate	99.7		P	80 - 120
Ethalfuralin	95.9		P	80 - 120
Fenpropathrin	92.4		P	80 - 120
Gamma-BHC	99.4		P	80 - 120
Gamma-Chlordane	97.8		P	80 - 120
Heptachlor	98.1		P	80 - 120
Heptachlor Epoxide	96.7		P	80 - 120
Hexachlorobenzene	96.2		P	80 - 120
Kepone	88.0		P	80 - 120
Lambda-Cyhalothrin	98.8		P	80 - 120
Methoprene	96.5		P	80 - 120
Methoxychlor	97.9		P	80 - 120
MGK-264	95.5		P	80 - 120
Mirex	97.9		P	80 - 120
Oxychlordane	95.7		P	80 - 120
Permethrin	97.5		P	80 - 120
Phenothrin	101		P	80 - 120
Piperonyl Butoxide	90.4		P	80 - 120
Prallethrin	94.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115021

Included Lab Sample IDs: 2358837, 2358838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tau-Fluvalinate	97.2		P	80 - 120
Tetramethrin	99.9		P	80 - 120
Trans-Nonachlor	97.6		P	80 - 120
Triclosan Methyl	98.5		P	80 - 120
Trifluralin	99.9		P	80 - 120

Reference Method: EPA 8270E

Run ID: A115041

Included Lab Sample IDs: 2358837, 2358838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.1		P	80 - 120
PCB-1260	98.0		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A115070

Included Lab Sample IDs: 2358801, 2358802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	96.5	P/P	90 - 110
Total Alkalinity	96.5	102	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115070

Included Lab Sample IDs: 2358801, 2358802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	103	P/P	90 - 110
Fluoride	104	102	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A115074

Included Lab Sample IDs: 2358804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	95.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115092

Included Lab Sample IDs: 2358803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.5	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115093

Included Lab Sample IDs: 2358803, 2358804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115095

Included Lab Sample IDs: 2358839, 2358840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.9		P	80 - 120
Alachlor	97.1		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	92.1		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	95.9		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	97.1		P	80 - 120
Caffeine	112		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	109		P	80 - 120
Chlorpyrifos Ethyl	103		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	97.4		P	80 - 120
Cyprodinil	95.6		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	95.2		P	80 - 120
Difenoconazole	101		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	96.9		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	98.5		P	80 - 120
Ethion	103		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	94.9		P	80 - 120
Fenamiphos	113		P	80 - 120
Fenbuconazole	97.0		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	105		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	96.4		P	80 - 120
Flumioxazin	103		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	97.7		P	80 - 120
Fonofos	106		P	80 - 120
Hexazinone	95.9		P	80 - 120
Imazalil	105		P	80 - 120
Iprodione	95.0		P	80 - 120
Loratadine	94.8		P	80 - 120
Malathion	108		P	80 - 120
Metalaxyl	98.7		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	112		P	80 - 120
Molinate	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115095

Included Lab Sample IDs: 2358839, 2358840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	98.5		P	80 - 120
Naled	106		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	95.9		P	80 - 120
Oxadiazon	98.2		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	97.5		P	80 - 120
Pendimethalin	89.5		P	80 - 120
Phenytoin	101		P	80 - 120
Phorate	105		P	80 - 120
Prodiamine	107		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	105		P	80 - 120
Propanil	90.1		P	80 - 120
Propargite	93.0		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	105		P	80 - 120
Pyriproxyfen	94.1		P	80 - 120
Simazine	110		P	80 - 120
Stiophos	106		P	80 - 120
Sulfentrazone	91.2		P	80 - 120
Tebuconazole	98.2		P	80 - 120
Terbufos	106		P	80 - 120
Terbutylazine	108		P	80 - 120
Thiobencarb	95.8		P	80 - 120
Triadimefon	97.0		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115115

Included Lab Sample IDs: 2358804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	102	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115161

Included Lab Sample IDs: 2358839, 2358840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.7		P	80 - 120
Avobenzone	95.1		P	80 - 120
Dechlorane Plus	105		P	80 - 120
Octinoxate	92.1		P	80 - 120
Oxybenzone	98.6		P	80 - 120
PBDE-47	93.7		P	80 - 120
PBDE-99	98.6		P	80 - 120
Tri-o-cresyl Phosphate	92.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115220

Included Lab Sample IDs: 2358803, 2358804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	98.3	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)	101				2.13	
EPA 180.1 Rev. 2.0	Turbidity	101				9.16	
EPA 300.0 Rev. 2.1	Chloride	98.7	93.5	95.1		0.236	
	Sulfate	96.3	92.1	93.9		0.0504	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	96.6	95.6			0.922
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.6					0.562
	Kjeldahl Nitrogen	100					1.26
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104	95.5				0.175
EPA 365.1 Rev. 2.0	Total-P	104	107	105			1.63
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4	99.5	101			1.40
EPA 8270E	2-Ethylhexyl	76.5	53.3	65.5			20.5
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	91.1	96.9	92.0			5.27
	Alachlor	77.5	80.5	81.6			1.41
	Aldrin	52.7	60.1	52.4			13.7
	Alpha-BHC	91.3	84.8	75.7			11.3
	Alpha-Chlordane	60.6	52.0	48.5			5.87
	Ametryn	76.7	81.7	102			22.4
	Atrazine	88.8	89.8	88.8			0.572
	Atrazine Desethyl	53.5	39.3	35.2			8.47
	Avobenzone	74.3	69.0	85.9			21.9
	Azinphos Methyl	94.6	92.8	102			9.01
	Azoxystrobin	104	112	111			0.414
	Beta-BHC	107	94.9	87.3			8.32
	Beta-Cyfluthrin	66.7	91.1	79.6			13.4
	Bifenthrin	38.7	75.4	65.9			13.4
	Bromacil	60.1	57.8	53.4			5.87
	Butylate	53.9	56.9	49.7			13.5
	Caffeine	90.8	92.5	97.0			4.83
	Carbophenothion	81.1	87.6	89.4			2.01
	Carfentrazone Ethyl	88.1	88.5	88.0			0.585
	Chlorfenapyr	80.0	76.3	79.2			3.73
	Chlorothalonil	152	159	134			17.1
	Chlorpyrifos Ethyl	87.8	84.9	84.8			0.0199
	Chlorpyrifos Methyl	99.8	97.1	92.9			4.34
	Cis-Nonachlor	69.5	74.7	66.1			12.2
	Coumaphos	98.3	63.0	62.1			1.50
	Cyanazine	88.9	105	94.6			10.3
	Cypermethrin	63.6	93.3	79.7			15.7
	Cyprodinil	79.3	79.4	80.8			1.82
	Dacthal	95.7	82.5	73.8			11.1
	DDD-p,p'	74.0	71.0	63.0			11.9
	DDE-p,p'	72.9	67.7	62.1			8.69
	DDT-p,p'	65.2	66.0	59.7			9.95
	Dechlorane Plus	108	90.1	102			12.0
	Delta-BHC	131	113	101			11.9
	Deltamethrin	62.4	116	79.4			37.4
	Demeton	77.5	79.6	81.5			2.41
	Diazinon	89.7	87.9	90.8			3.28
	Dichlobenil	104	77.6	65.7			16.7
	Dicofol	79.6	81.4	74.2			9.35
	Dieldrin	73.9	74.5	64.2			13.6
	Difenoconazole	105	112	105			6.53

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Dimethenamid	70.8	75.0	74.9			0.138
	Dimethomorph	99.5	123	127			2.77
	Disulfoton	100	91.0	91.4			0.495
	Dithiopyr	81.3	86.6	87.5			1.09
	Endosulfan I	78.1	76.4	67.8			11.9
	Endosulfan II	84.7	75.2	64.2			15.7
	Endosulfan Sulfate	112	83.8	72.8			14.1
	Endrin	78.0	71.6	65.0			9.61
	Endrin Aldehyde	98.1	62.2	56.7			9.31
	Endrin Ketone	101	87.4	69.5			22.9
	EPTC	47.2	48.8	48.9			0.184
	Esfenvalerate	62.6	98.3	90.9			7.84
	Ethalfuralin	67.8	71.1	61.5			14.5
	Ethion	67.6	62.6	71.6			13.4
	Ethoprop	83.8	85.9	91.1			5.89
	Etridiazole	46.4	54.0	52.1			3.65
	Fenamiphos	95.0	62.7	59.4			5.33
	Fenbuconazole	83.7	78.5	69.1			11.8
	Fenpropathrin	62.4	73.0	61.0			17.9
	Fipronil	83.6	89.9	89.2			0.775
	Fipronil Desulfinyl	81.3	91.6	97.3			6.05
	Fipronil Sulfide	63.7	69.7	74.2			6.28
	Fipronil Sulfone	68.0	70.4	68.4			2.52
	Fluazifop-P-butyl	86.6	88.6	89.2			0.656
	Fludioxonil	81.6	85.1	79.6			6.61
	Flumioxazin	124	125	124			1.28
	Flutolanil	79.5	77.9	76.1			2.33
	Fluxapyroxad	79.9	72.3	72.8			0.658
	Fonofos	88.2	81.6	85.0			4.07
	Gamma-BHC	94.4	94.8	87.5			8.02
	Gamma-Chlordane	67.0	76.4	64.5			16.9
	Heptachlor	58.1	67.5	58.2			14.8
	Heptachlor Epoxide	76.5	72.3	63.8			10.4
	Hexachlorobenzene	66.1	68.7	60.0			13.6
	Hexazinone	81.5	86.4	88.3			2.20
	Imazalil	101	84.1	74.0			12.8
	Iprodione	92.3	85.6	82.9			3.25
	Kepone	229	182	143			18.4
	Lambda-Cyhalothrin	49.2	87.7	75.0			15.6
	Loratadine	96.6	119	120			0.615
	Malathion	106	108	100			7.39
	Metalaxyl	76.9	83.7	81.6			2.57
	Methoprene	47.3	79.0	73.5			7.19
	Methoxychlor	71.7	71.1	59.0			18.7
	Metolachlor	81.9	86.5	81.5			5.69
	Metribuzin	99.5	100	101			0.382
	Mevinphos	68.7	73.5	73.3			0.288
	MGK-264	94.7	86.9	75.6			13.9
	Mirex	50.3	64.0	58.0			9.89
	Molinate	68.4	74.7	73.7			1.32
	Myclobutanil	81.4	77.9	81.1			4.06
	Naled	93.6	105	110			5.13
	Napropamide	69.8	75.1	72.2			3.96
	Norflurazon	66.9	66.9	65.4			2.09

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Octinoxate	68.0	61.0	78.0			24.6
	Oxadiazon	69.6	78.2	73.7			6.00
	Oxybenzone	69.0	65.6	74.5			12.7
	Oxychlordane	71.9	73.9	65.3			12.4
	Oxyfluorfen	103	107	106			0.988
	Parathion Ethyl	89.4	85.8	92.0			6.94
	Parathion Methyl	107	111	112			0.490
	PBDE-47	67.6	57.3	74.3			25.8
	PBDE-99	74.4	51.9	66.1			24.1
	PCB-1016	84.8	101	91.5			9.68
	PCB-1260	83.9	94.3	86.0			9.17
	Pendimethalin	75.1	77.4	82.2			5.92
	Permethrin	55.8	81.0	72.4			11.1
	Phenothrin	42.1	131	137			4.45
	Phenytain	18.2	41.8	33.6			21.8
	Phorate	75.7	73.6	86.7			16.3
	Piperonyl Butoxide	104	91.3	84.6			6.73
	Prallethrin	83.5	83.5	72.3			14.4
	Prodiamine	42.0	49.2	46.4			5.71
	Prometon	117	115	113			1.31
	Prometryn	126	79.0	45.6			53.6
	Pronamide	93.4	103	98.0			5.06
	Propanil	79.4	74.1	73.9			0.290
	Propargite	64.1	61.4	66.6			8.11
	Propiconazole	65.5	69.9	68.0			2.37
	Pyraflufen Ethyl	69.4	76.7	71.5			7.02
	Pyridaben	94.9	21.8	14.1			43.2
	Pyriproxyfen	74.2	68.3	72.8			6.36
	Simazine	88.5	79.9	88.6			7.30
	Stirophos	67.4	59.1	61.4			3.88
	Sulfentrazone	33.0	77.9	83.0			6.28
	Tau-Fluvalinate	49.5	92.4	82.2			11.7
	Tebuconazole	50.6	46.2	50.5			8.11
	Terbufos	104	106	110			3.07
	Terbutylazine	87.5	89.5	95.1			6.01
	Tetramethrin	104	122	103			16.7
	Thiobencarb	76.1	73.9	77.7			5.02
	Trans-Nonachlor	69.4	72.3	64.0			12.1
	Tri-o-cresyl Phosphate	67.6	60.9	74.3			19.8
	Triadimefon	83.5	83.1	76.8			7.87
	Triclosan Methyl	82.8	76.0	66.0			14.2
	Trifluralin	68.4	67.7	61.0			10.3
EPA 8276	Chlordane	77.5	81.5	72.7			11.3
	Toxaphene	93.4	97.7	81.4			18.2
EPA 8321B	2,4-D	74.2	89.5	87.7			1.88
	2,4,5-T	62.5	84.3	82.8			1.81
	3-Hydroxycarbofuran	80.8	91.7	86.8			5.46
	Acesulfame K	99.9	86.6	88.8			2.46
	Acetaminophen	87.8	106	105			0.379
	Acetamiprid	79.9	88.4	86.3			2.35
	Afidopyropen	70.6	85.5	86.0			0.608
	Aldicarb	44.6	37.4	42.1			11.9
	Aldicarb Sulfone	92.1	107	102			4.51
	Aldicarb Sulfoxide	58.9	33.1	30.1			9.64

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	AMPA	112	100	106			5.11
	Bentazon	38.2	42.2	38.5			8.16
	Benzovindiflupyr	78.3	84.1	84.6			0.571
	Carbamazepine	76.3	77.5	74.1			4.47
	Carbaryl	64.8	62.8	60.7			3.34
	Carbofuran	63.7	56.6	56.6			0.0422
	Clothianidin	91.9	109	107			1.60
	Dinotefuran	95.4	97.1	116			17.4
	Diuron	70.6	73.5	74.4			1.16
	Endothall	97.7	126	130			2.70
	Fenuron	96.9	93.2	93.3			0.0381
	Fluridone	91.9	95.5	95.1			0.511
	Glufosinate	91.2	85.2	67.6			23.1
	Glyphosate	109	85.1	90.0			5.63
	Hydrocodone	89.2	102	101			0.646
	Ibuprofen	58.2	75.8	63.9			17.0
	Imazapyr	82.9	96.0	97.8			1.61
	Imidacloprid	120	122	125			2.34
	Linuron	72.7	76.9	80.4			4.39
	Mandestrobin	94.5	97.4	100			2.67
	MCPP	78.3	93.6	92.0			1.69
	Methiocarb	74.0	80.7	79.9			1.05
	Methomyl	83.5	80.8	78.9			2.40
	Naproxen	70.0	101	96.4			4.32
	Oxamyl	80.2	84.4	81.1			3.98
	Primidone	86.3	91.6	96.3			5.05
	Propoxur	58.8	57.6	53.6			7.12
	Pyraclostrobin	77.5	86.8	87.4			0.623
	Silvex	63.2	77.8	75.1			3.52
	Sucralose	106	104	104			0.187
	Thiamethoxam	95.4	122	125			2.16
	Tolfenpyrad	45.2	46.8	47.6			1.58
	Triclopyr	66.9	87.2	85.6			1.83
SM 2320 B-2011	Total Alkalinity	98.6				1.87	
SM 2540 C-2011	TDS					3.48	
SM 4500-F- C-2011	Fluoride	102	100	100			0.0
SM 5310 B-2011	Organic Carbon	95.9	97.5	98.3			0.693
	Organic Carbon	97.5	100	97.9			1.71

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2358801, 2358802
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2358801, 2358802
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2358801, 2358802
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2358801, 2358802
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2358803, 2358804
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2358803, 2358804
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2358803, 2358804
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2358803, 2358804
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2358805, 2358806
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2358839, 2358840

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2358837, 2358838
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2358839, 2358840
EPA 8270E	PCBs in water matrices by GC/MS/MS	2358837, 2358838
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2358837, 2358838
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2358833, 2358834
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2358835, 2358836
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2358801, 2358802
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2358801, 2358802
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2358801, 2358802
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2358801, 2358802
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2358803, 2358804

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	09/22/2022			09/22/2022 14:46	Anna M. Plaviak	2358801
	09/22/2022			09/22/2022 14:47	Anna M. Plaviak	2358802
EPA 180.1 Rev. 2.0	09/22/2022			09/22/2022 14:33	Chandler E Cox	2358801
	09/22/2022			09/22/2022 14:35	Chandler E Cox	2358802
EPA 300.0 Rev. 2.1	09/22/2022			09/29/2022 15:14	Anna M. Plaviak	2358801
	09/22/2022			09/29/2022 15:29	Anna M. Plaviak	2358802
EPA 350.1 Rev. 2.0	09/22/2022			10/11/2022 14:03	Judith K. Clark	2358803
	09/22/2022			10/11/2022 14:05	Judith K. Clark	2358804
EPA 351.2 Rev. 2.0	09/22/2022	09/28/2022 12:10	Alexandra J Mattheus	10/03/2022 14:34	Samantha L Bates	2358803
	09/22/2022	09/28/2022 12:10	Alexandra J Mattheus	10/04/2022 09:37	Samantha L Bates	2358804
EPA 353.2 Rev. 2.0	09/22/2022			10/03/2022 12:30	Beverly Y. Sanders	2358803
	09/22/2022			10/03/2022 12:36	Beverly Y. Sanders	2358804
EPA 365.1 Rev. 2.0	09/22/2022	09/28/2022 14:15	Simonne.V. Calhoun	09/29/2022 10:45	James L Waggeberby	2358803
	09/22/2022	09/28/2022 14:15	Simonne.V. Calhoun	09/29/2022 10:46	James L Waggeberby	2358804
EPA 365.1 Rev. 2.0 dissolved	09/22/2022			09/22/2022 14:34	Elise M. Gillis	2358805
	09/22/2022			09/22/2022 14:35	Elise M. Gillis	2358806
EPA 8270E	09/22/2022	09/26/2022 08:30	Rasheda Ghaffari	09/28/2022 16:58	Vandana T. Nagar	2358838
	09/22/2022	09/26/2022 08:30	Rasheda Ghaffari	09/28/2022 17:27	Vandana T. Nagar	2358837
	09/22/2022	09/26/2022 08:30	Rasheda Ghaffari	09/29/2022 23:09	Julie Wi	2358837
	09/22/2022	09/26/2022 08:30	Rasheda Ghaffari	09/29/2022 23:39	Julie Wi	2358838
	09/22/2022	09/27/2022 08:00	Fe-Val Siddell	10/02/2022 02:55	Michael Poppell	2358839
	09/22/2022	09/27/2022 08:00	Fe-Val Siddell	10/02/2022 03:21	Michael Poppell	2358840
	09/22/2022	09/27/2022 08:00	Fe-Val Siddell	10/05/2022 19:48	Lipi Saha	2358839
	09/22/2022	09/27/2022 08:00	Fe-Val Siddell	10/05/2022 20:07	Lipi Saha	2358840
EPA 8276	09/22/2022	09/26/2022 08:30	Rasheda Ghaffari	09/29/2022 07:39	Arthur Maknenko	2358837
	09/22/2022	09/26/2022 08:30	Rasheda Ghaffari	09/29/2022 08:35	Arthur Maknenko	2358838
EPA 8321B	09/22/2022	09/26/2022 09:00	June Rhew	09/27/2022 22:56	Juyoung Kim	2358833
	09/22/2022	09/26/2022 09:00	June Rhew	09/27/2022 23:14	Juyoung Kim	2358834
	09/22/2022	09/27/2022 09:00	June Rhew	09/28/2022 05:27	Juyoung Kim	2358835
	09/22/2022	09/27/2022 09:00	June Rhew	09/28/2022 05:44	Juyoung Kim	2358836
	09/22/2022	09/27/2022 09:00	June Rhew	09/28/2022 09:05	Juyoung Kim	2358835
	09/22/2022	09/27/2022 09:00	June Rhew	09/28/2022 09:23	Juyoung Kim	2358836
	09/22/2022	09/27/2022 09:00	June Rhew	09/28/2022 09:41	Juyoung Kim	2358835
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 13:58	Umesh Chiluwal	2358835
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 14:11	Umesh Chiluwal	2358836
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 16:34	Umesh Chiluwal	2358835
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/27/2022 16:47	Umesh Chiluwal	2358836
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/28/2022 00:28	Umesh Chiluwal	2358835
	09/22/2022	09/27/2022 09:00	Umesh Chiluwal	09/28/2022 00:43	Umesh Chiluwal	2358836
SM 2320 B-2011	09/22/2022			10/01/2022 15:13	Dale L. Simmons	2358802

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	09/22/2022			10/01/2022 16:23	Dale L. Simmons	2358801
SM 2540 C-2011	09/22/2022			09/27/2022 15:36	Yijie Li	2358801, 2358802
SM 2540 D-2011	09/22/2022			09/27/2022 15:36	Yijie Li	2358801, 2358802
SM 4500-F- C-2011	09/22/2022			10/01/2022 15:13	Dale L. Simmons	2358802
	09/22/2022			10/01/2022 16:23	Dale L. Simmons	2358801
SM 5310 B-2011	09/22/2022			09/27/2022 05:02	Touraj Touran	2358803
	09/22/2022			09/30/2022 00:36	Touraj Touran	2358804