

Chemical Analysis Report

SE-DIST-2023-10-06-02

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

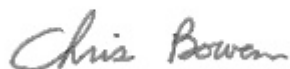
Event Description: **SMP - Basinger**
Request ID: **RQ-2023-09-11-27**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 02-NOV-2023 13:22



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: SEVENMILE SLOUGH AT PEAVINE TRAIL

Collection Date/Time: 10/05/2023 10:30

Field ID: G4SE0153

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443402	DEP SOP: NU-094-1	Color (true)	260		PCU	P436145	
	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P436138	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P436323	
		Sulfate	0.20	U	mg SO4/L	P436326	
	SM 2320 B-2011	Total Alkalinity	4.6		mg CaCO3/L	P436470	
	SM 2540 C-2015	TDS	61		mg/L	P436766	RPD
	SM 2540 D-2015	TSS	3	I	mg/L	P436583	
	SM 4500-F- C-2011	Fluoride	0.041	I	mg F/L	P436359	
2443403	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P436288	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P436271	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436382	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P436220	MS
	SM 5310 B-2011	Organic Carbon	24		mg C/L	P436407	

Ref. Method and Comment:

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high 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.

Sample Location: OAK CREEK AT 68

Collection Date/Time: 10/05/2023 11:15

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443417	EPA 8321B	Aldicarb	0.020	U	ug/L	P436137	
		Aldicarb Sulfone	0.0020	U	ug/L	P436137	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P436137	MS
		Carbaryl	0.0020	U	ug/L	P436137	
		Carbofuran	0.0020	U	ug/L	P436137	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P436137	
		Methiocarb	0.0020	U	ug/L	P436137	
		Methomyl	0.0020	U	ug/L	P436137	
		Oxamyl	0.0020	U	ug/L	P436137	
		Propoxur	0.0020	U	ug/L	P436137	
2443418		2,4-D	0.0033	I	ug/L	P436051	
		Acesulfame K	0.10	U	ug/L	P436195	
		2,4,5-T	0.0040	U	ug/L	P436051	
		AMPA	0.10	U	ug/L	P436195	
		Acetaminophen	0.0080	U	ug/L	P436051	
		Acetamiprid	0.0020	U	ug/L	P436051	
		Endothall	0.25	U	ug/L	P436195	
		Glufosinate	0.10	U	ug/L	P436195	
		Glyphosate	0.10	U	ug/L	P436195	
		Afidopyropen	0.0020	U	ug/L	P436051	
		Bentazon	8.0E-04	U	ug/L	P436051	
		Sucralose	0.010	U	ug/L	P436195	
		Benzovindiflupyr	0.0020	U	ug/L	P436051	
		Carbamazepine	8.0E-04	U	ug/L	P436051	
		Clothianidin	0.0020	U	ug/L	P436051	
		Dinotefuran	0.0020	U	ug/L	P436051	
		Diuron	0.0020	U	ug/L	P436051	
		Fenuron	0.032	U	ug/L	P436051	
		Fluridone	8.0E-04	U	ug/L	P436051	
		Imazapyr	0.0081	I	ug/L	P436051	
		Hydrocodone	0.0020	U	ug/L	P436051	
		Ibuprofen	0.080	U	ug/L	P436051	
		Imidacloprid	0.0020	U	ug/L	P436051	
		Linuron	0.0040	U	ug/L	P436051	
		Mandestrobin	0.0020	U	ug/L	P436051	
		MCPP	0.0020	U	ug/L	P436051	
		Naproxen	0.0080	U	ug/L	P436051	
		Primidone	0.0040	U	ug/L	P436051	
		Pyraclostrobin	0.0020	U	ug/L	P436051	
		Silvex	0.0040	U	ug/L	P436051	
		Thiamethoxam	0.0020	U	ug/L	P436051	
		Tolfenpyrad	0.0020	U	ug/L	P436051	
		Triclopyr	0.0040	U	ug/L	P436051	
2443420	EPA 8270E	Aldrin	0.67	U	ng/L	P435920	

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443420	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P435920	
		Alpha-Chlordane	0.20	U	ng/L	P435920	
		PCB-1016	2.0	U	ng/L	P435920	
		Beta-BHC	0.10	U	ng/L	P435920	
		PCB-1221	2.0	U	ng/L	P435920	
		Beta-Cyfluthrin	1.3	U	ng/L	P435920	
		PCB-1232	2.0	U	ng/L	P435920	
		Bifenthrin	0.51	U	ng/L	P435920	
		PCB-1242	2.0	U	ng/L	P435920	
		PCB-1248	2.0	U	ng/L	P435920	
		Chlorothalonil	3.7	U	ng/L	P435920	
		PCB-1254	2.0	U	ng/L	P435920	
		Cis-Nonachlor	0.20	U	ng/L	P435920	
		PCB-1260	2.0	U	ng/L	P435920	
		Cypermethrin	1.5	U	ng/L	P435920	
		Dacthal	0.15	U	ng/L	P435920	
		DDD-p,p'	0.26	U	ng/L	P435920	
		DDE-p,p'	0.20	U	ng/L	P435920	
		DDT-p,p'	0.82	U	ng/L	P435920	
		Delta-BHC	0.41	U	ng/L	P435920	
		Deltamethrin	1.3	U	ng/L	P435920	
		Dichlobenil	0.26	U	ng/L	P435920	
		Dicofol	1.3	U	ng/L	P435920	
		Dieldrin	0.41	U	ng/L	P435920	
		Endosulfan I	0.41	U	ng/L	P435920	
		Endosulfan II	0.92	U	ng/L	P435920	
		Endosulfan Sulfate	0.31	U	ng/L	P435920	
		Endrin	0.92	U	ng/L	P435920	
		Endrin Aldehyde	0.77	U	ng/L	P435920	
		Endrin Ketone	0.41	U	ng/L	P435920	
		Esfenvalerate	0.77	U	ng/L	P435920	
		Ethalfuralin	0.15	U	ng/L	P435920	
		Fenpropathrin	0.26	U	ng/L	P435920	
		Gamma-BHC	0.13	U	ng/L	P435920	
		Gamma-Chlordane	0.20	U	ng/L	P435920	
		Heptachlor	0.20	U	ng/L	P435920	
		Heptachlor Epoxide	0.26	U	ng/L	P435920	
		Hexachlorobenzene**	1.0	U	ng/L	P435920	
		Kepone	14	U	ng/L	P435920	
		Lambda-Cyhalothrin	0.77	U	ng/L	P435920	
		Methoprene	0.77	U	ng/L	P435920	
		Methoxychlor	0.31	U	ng/L	P435920	
		MGK-264	0.20	U	ng/L	P435920	
		Mirex	0.36	U	ng/L	P435920	
		Oxychlordane	0.31	U	ng/L	P435920	

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443420	EPA 8270E	Permethrin	1.6	U	ng/L	P435920	
		Phenothrin	0.92	U	ng/L	P435920	
		Piperonyl Butoxide	0.34	I	ng/L	P435920	
		Prallethrin	2.0	U	ng/L	P435920	
		Tau-Fluvalinate	0.26	U	ng/L	P435920	
		Tetramethrin	0.77	U	ng/L	P435920	
		Trans-Nonachlor	0.20	U	ng/L	P435920	
		Triclosan Methyl	0.15	U	ng/L	P435920	
		Trifluralin	0.20	U	ng/L	P435920	
		Chlordane	2.0	U	ng/L	P435920	
2443421	EPA 8276	Toxaphene	15	U	ng/L	P435920	
	EPA 8270E	Oxybenzone**	10	U	ng/L	P436252	
		Acetochlor	0.21	UQ	ng/L	P436600	
		Octinoxate**	150	U	ng/L	P436252	
		Alachlor	0.41	UQ	ng/L	P436600	MS
		Avobenzone**	100	U	ng/L	P436252	
		Ametryn	1.1	UQ	ng/L	P436600	
		Atrazine	0.42	IQ	ng/L	P436600	
		PBDE-47**	4.1	U	ng/L	P436252	RPD
		Atrazine Desethyl	1.3	UQ	ng/L	P436600	
		PBDE-99**	5.1	U	ng/L	P436252	
		Azinphos Methyl	3.1	UQ	ng/L	P436600	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P436252	
		Azoxystrobin	0.41	UQ	ng/L	P436600	
		Bromacil	0.62	UQ	ng/L	P436600	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P436252	
		Butylate	0.47	UQ	ng/L	P436600	
		Dechlorane Plus**	31	U	ng/L	P436252	
		Caffeine**	10	IQ	ng/L	P436600	
		Dechlorane 602**	5.1	U	ng/L	P436252	RPD
		Carbophenothion	0.52	UQ	ng/L	P436600	
		Dechlorane 603**	4.1	U	ng/L	P436252	
		Carfentrazone Ethyl	0.16	UQ	ng/L	P436600	
		Hexabromobenzene**	6.1	U	ng/L	P436252	
		Chlorfenapyr	0.31	UQ	ng/L	P436600	
		PBB-153**	6.1	U	ng/L	P436252	
		Chlorpyrifos Ethyl	0.31	UQ	ng/L	P436600	
		Pentabromotoluene**	3.1	U	ng/L	P436252	
		Chlorpyrifos Methyl	0.10	UQ	ng/L	P436600	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P436252	RPD
		Coumaphos	1.1	UQ	ng/L	P436600	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P436252	
		Cyanazine	5.2	UQ	ng/L	P436600	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P436252	

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443421	EPA 8270E	Cyprodinil	0.21	UQ	ng/L	P436600	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P436252	
		Demeton	3.6	UQ	ng/L	P436600	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P436252	RPD
		Diazinon	0.13	UQ	ng/L	P436600	
		Difenoconazole	0.62	UQ	ng/L	P436600	
		Dimethenamid	0.10	UQ	ng/L	P436600	
		Dimethomorph	0.31	UQ	ng/L	P436600	MS
		Disulfoton	0.62	UQ	ng/L	P436600	
		Dithiopyr	1.0	UQ	ng/L	P436600	MS
		EPTC	0.52	UQ	ng/L	P436600	
		Ethion	0.31	UQ	ng/L	P436600	
		Ethoprop	0.13	UQ	ng/L	P436600	
		Etridiazole	0.10	UQ	ng/L	P436600	
		Fenamiphos	0.47	UQ	ng/L	P436600	
		Fenbuconazole	0.52	UQ	ng/L	P436600	
		Fipronil	0.21	UQ	ng/L	P436600	
		Fipronil Desulfinyl**	0.10	UQ	ng/L	P436600	
		Fipronil Sulfide	0.10	UQ	ng/L	P436600	
		Fipronil Sulfone	0.10	UQ	ng/L	P436600	
		Fluazifop-P-butyl	0.10	UQ	ng/L	P436600	
		Fludioxonil	0.10	UQ	ng/L	P436600	
		Flumioxazin	3.1	UQ	ng/L	P436600	
		Flutolanil	0.10	UQ	ng/L	P436600	
		Fluxapyroxad	0.26	UQ	ng/L	P436600	
		Fonofos	0.16	UQ	ng/L	P436600	
		Hexazinone	21	Q	ng/L	P436600	
		Imazalil	0.67	UQ	ng/L	P436600	
		Iprodione	0.52	UQ	ng/L	P436600	RPD
		Loratadine**	0.31	UQ	ng/L	P436600	
		Malathion	0.36	UQ	ng/L	P436600	
		Metalaxyl	0.52	UQ	ng/L	P436600	
		Metolachlor	1.6	IQ	ng/L	P436600	RPD
		Metribuzin	0.41	UQ	ng/L	P436600	
		Mevinphos	1.0	UQ	ng/L	P436600	
		Molinate	0.26	UQJ	ng/L	P436600	LCS
		Myclobutanil	0.36	UQ	ng/L	P436600	
		Naled	2.6	UQ	ng/L	P436600	
		Napropamide	0.73	UQ	ng/L	P436600	
		Norflurazon	1.0	UQ	ng/L	P436600	
		Oxadiazon	0.36	UQ	ng/L	P436600	
		Oxyfluorfen	0.21	UQ	ng/L	P436600	
		Parathion Ethyl	0.16	UQ	ng/L	P436600	
		Parathion Methyl	0.21	UQ	ng/L	P436600	

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443421	EPA 8270E	Pendimethalin	1.8	UQ	ng/L	P436600	MS
		Phenytion**	5.5	UQ	ng/L	P436600	
		Phorate	0.26	UQ	ng/L	P436600	
		Prodiamine	0.21	UQ	ng/L	P436600	
		Prometon	3.1	UQ	ng/L	P436600	
		Prometryn	0.36	UQ	ng/L	P436600	
		Pronamide	0.10	UQ	ng/L	P436600	
		Propanil	0.10	UQ	ng/L	P436600	
		Propargite	0.83	UQ	ng/L	P436600	
		Propiconazole	0.62	UQ	ng/L	P436600	
		Pyraflufen Ethyl	0.31	UQ	ng/L	P436600	
		Pyridaben	1.5	UQ	ng/L	P436600	
		Pyriproxyfen	0.26	UQ	ng/L	P436600	
		Simazine	0.26	UQ	ng/L	P436600	
		Stirophos	0.41	UQ	ng/L	P436600	
		Sulfentrazone	1.5	UQ	ng/L	P436600	
		Tebuconazole	1.5	UQ	ng/L	P436600	
		Terbufos	0.21	UQ	ng/L	P436600	
		Terbuthylazine	0.21	UQ	ng/L	P436600	
		Thiobencarb	0.52	UQ	ng/L	P436600	RPD
		Triadimefon	0.16	UQ	ng/L	P436600	

Ref. Method and Comment:

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

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Sample expired for preparation due to need for re-extraction. 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: P436145

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436138

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436323

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436326

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436288

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436271

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436382

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436220

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

Reference Method: EPA 8270E
Batch ID: P435920

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435920

Component	Result	Code	Units
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436252

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Avobenzone	100	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Octinoxate	150	U	ng/L
Oxybenzone	10	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8270E

Batch ID: P436600

Component	Result	Code	Units
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436600

Component	Result	Code	Units
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Pendimethalin	1.7	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Thiobencarb	0.50	U	ng/L
Triadimefon	0.15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276

Batch ID: P435920

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

Reference Method: EPA 8321B

Batch ID: P436051

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	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
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: P436137

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P436195

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

Reference Method: SM 2320 B-2011
Batch ID: P436470

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2015
Batch ID: P436766

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436583

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436359

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P436407

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: P436145

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436138

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436323

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436326

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436288

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436271

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436382

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436220

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	108		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P435920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.4		P	24 - 81.0
Alpha-BHC	86.0		P	65 - 110
Alpha-Chlordane	92.1		P	43 - 119
Beta-BHC	109		P	54 - 165

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	70.0		P	27 - 165
Bifenthrin	49.5		P	17 - 117
Chlorothalonil	124		P	10 - 255
Cis-Nonachlor	84.7		P	34 - 98.0
Cypermethrin	47.4		P	25 - 143
Dacthal	86.6		P	55 - 139
DDD-p,p'	59.0		P	30 - 109
DDE-p,p'	51.5		P	35 - 106
DDT-p,p'	63.3		P	41 - 101
Delta-BHC	142		P	58 - 165
Deltamethrin	81.7		P	10 - 194
Dichlobenil	78.7		P	22 - 114
Dicofol	77.0		P	17 - 133
Dieldrin	59.5		P	45 - 129
Endosulfan I	66.7		P	49 - 104
Endosulfan II	68.6		P	37 - 117
Endosulfan Sulfate	93.4		P	38 - 128
Endrin	55.5		P	35 - 116
Endrin Aldehyde	82.4		P	19 - 108
Endrin Ketone	91.6		P	44 - 134
Esfenvalerate	80.6		P	27 - 176
Ethalfuralin	76.2		P	49 - 100
Fenpropathrin	60.6		P	34 - 117
Gamma-BHC	109		P	59 - 129
Gamma-Chlordane	99.4		P	33 - 107
Heptachlor	57.3		P	37 - 94.0
Heptachlor Epoxide	75.7		P	38 - 118
Hexachlorobenzene	64.6		P	35 - 97.0
Kepone	88.8		P	10 - 221
Lambda-Cyhalothrin	37.2		P	23 - 190
Methoprene	45.0		P	21 - 109
Methoxychlor	78.7		P	46 - 118
MGK-264	99.0		P	39 - 122
Mirex	50.4		P	25 - 90.0
Oxychlordane	64.7		P	42 - 100
PCB-1016	69.2		P	45 - 107
PCB-1260	76.3		P	40 - 118
Permethrin	62.9		P	33 - 181
Phenothrin	53.3		P	12 - 125
Piperonyl Butoxide	91.1		P	10 - 178
Prallethrin	63.1		P	24 - 122
Tau-Fluvalinate	67.6		P	13 - 151
Tetramethrin	72.4		P	16 - 172
Trans-Nonachlor	64.1		P	39 - 100
Triclosan Methyl	67.1		P	43 - 110
Trifluralin	63.5		P	45 - 94.0

Reference Method: EPA 8270E

Batch ID: P436252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	75.1		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	37 - 154
Avobenzene	119		P	48 - 193
Dechlorane 602	80.1		P	23 - 142
Dechlorane 603	111		P	51 - 171
Dechlorane Plus	94.8		P	46 - 161
Hexabromobenzene	120		P	52 - 165
Octinoxate	145		P	29 - 176
Oxybenzone	123		P	45 - 145
PBB-153	108		P	42 - 179
PBDE-47	102		P	44 - 141
PBDE-99	94.9		P	36 - 141
Pentabromotoluene	115		P	58 - 148
Tetradecachloro-m-terphenyl	109		P	30 - 235
Tri-o-cresyl Phosphate	123		P	50 - 150
Tris(1-chloro-2-propyl) phosphate (TCPP)	140		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	109		P	59 - 166

Reference Method: EPA 8270E

Batch ID: P436600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.6		P	64 - 124
Alachlor	99.8		P	61 - 118
Ametryn	106		P	47 - 158
Atrazine	89.3		P	68 - 121
Atrazine Desethyl	79.0		P	30 - 119
Azinphos Methyl	93.7		P	30 - 194
Azoxystrobin	86.7		P	58 - 154
Bromacil	77.9		P	47 - 126
Butylate	42.7		P	31 - 83.0
Caffeine	88.2		P	10 - 180
Carbophenothion	90.0		P	59 - 133
Carfentrazone Ethyl	97.3		P	59 - 147
Chlorfenapyr	65.2		P	52 - 118
Chlorpyrifos Ethyl	86.4		P	59 - 119
Chlorpyrifos Methyl	83.0		P	65 - 123
Coumaphos	76.4		P	11 - 223
Cyanazine	113		P	63 - 250
Cyprodinil	83.7		P	52 - 143
Demeton	54.6		P	42 - 119
Diazinon	95.9		P	67 - 132
Difenoconazole	99.2		P	12 - 204
Dimethenamid	74.7		P	53 - 113
Dimethomorph	139		P	13 - 238
Disulfoton	94.6		P	56 - 126
Dithiopyr	69.5		P	58 - 127
EPTC	38.8		P	31 - 78.0
Ethion	74.4		P	24 - 127
Ethoprop	74.0		P	60 - 118
Etridiazole	41.9		P	32 - 91.0
Fenamiphos	80.7		P	54 - 129

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenbuconazole	58.4		P	31 - 162
Fipronil	77.3		P	56 - 131
Fipronil Desulfinyl	76.7		P	58 - 132
Fipronil Sulfide	65.6		P	51 - 123
Fipronil Sulfone	70.8		P	50 - 125
Fluazifop-P-butyl	75.3		P	52 - 132
Fludioxonil	68.5		P	52 - 129
Flumioxazin	97.7		P	34 - 250
Flutolanil	67.1		P	45 - 128
Fluxapyroxad	82.7		P	31 - 150
Fonofos	88.2		P	60 - 116
Hexazinone	86.4		P	59 - 120
Imazalil	86.1		P	39 - 134
Iprodione	80.4		P	39 - 243
Loratadine	112		P	10 - 240
Malathion	93.1		P	53 - 145
Metalaxyl	81.1		P	59 - 120
Metolachlor	87.2		P	64 - 122
Metribuzin	87.0		P	33 - 128
Mevinphos	89.4		P	48 - 119
Molinate	39.0		F	42 - 89.0
Myclobutanil	69.0		P	54 - 129
Naled	36.6		P	10 - 138
Napropamide	80.0		P	40 - 122
Norflurazon	98.3		P	49 - 132
Oxadiazon	64.9		P	50 - 115
Oxyfluorfen	91.1		P	62 - 149
Parathion Ethyl	87.0		P	68 - 119
Parathion Methyl	95.4		P	68 - 147
Pendimethalin	87.7		P	59 - 158
Phenytoin	115		P	10 - 151
Phorate	110		P	44 - 124
Prodiamine	44.1		P	10 - 136
Prometon	108		P	45 - 131
Prometryn	83.6		P	52 - 140
Pronamide	99.3		P	70 - 129
Propanil	89.8		P	54 - 144
Propargite	68.0		P	10 - 191
Propiconazole	69.7		P	49 - 128
Pyraflufen Ethyl	93.3		P	46 - 141
Pyridaben	95.8		P	29 - 198
Pyriproxyfen	67.6		P	33 - 221
Simazine	87.3		P	62 - 119
Stirophos	61.9		P	13 - 144
Sulfentrazone	59.2		P	12 - 152
Tebuconazole	76.4		P	10 - 135
Terbufos	87.7		P	67 - 136
Terbuthylazine	67.5		P	66 - 113
Thiobencarb	72.8		P	51 - 125
Triadimefon	65.3		P	57 - 118

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P435920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.2		P	52 - 117
Toxaphene	85.9		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P436051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.1		P	40 - 150
2,4,5-T	94.6		P	40 - 150
Acetaminophen	77.3		P	30 - 150
Acetamiprid	83.5		P	40 - 150
Afidopyropen	77.9		P	30 - 150
Bentazon	91.8		P	30 - 150
Benzovindiflupyr	78.7		P	40 - 150
Carbamazepine	76.3		P	40 - 150
Clothianidin	84.6		P	40 - 150
Dinotefuran	90.8		P	40 - 150
Diuron	81.3		P	40 - 150
Fenuron	79.0		P	40 - 150
Fluridone	101		P	40 - 150
Hydrocodone	97.2		P	40 - 150
Ibuprofen	76.6		P	40 - 150
Imazapyr	84.1		P	40 - 150
Imidacloprid	78.2		P	40 - 150
Linuron	85.9		P	40 - 150
Mandestrobin	88.4		P	40 - 150
MCPP	91.8		P	40 - 150
Naproxen	55.2		P	40 - 150
Primidone	82.7		P	40 - 150
Pyraclostrobin	73.2		P	40 - 150
Silvex	77.7		P	40 - 150
Thiamethoxam	90.7		P	40 - 150
Tolfenpyrad	49.8		P	30 - 150
Triclopyr	101		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436137

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	72.3		P	40 - 150
Aldicarb	66.5		P	30 - 150
Aldicarb Sulfone	88.6		P	40 - 150
Aldicarb Sulfoxide	100		P	40 - 150
Carbaryl	73.5		P	40 - 150
Carbofuran	85.9		P	40 - 150
Methiocarb	61.3		P	40 - 150
Methomyl	74.7		P	40 - 150
Oxamyl	81.4		P	40 - 150
Propoxur	80.6		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P436195

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	93.4		P	40 - 150
Endothall	90.0		P	40 - 150
Glufosinate	78.2		P	40 - 150
Glyphosate	73.9		P	40 - 150
Sucralose	91.3		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P436470

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.7		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P436766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	106		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P436583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	108		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P436359

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436407

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436323

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443359	Chloride	104		P	90 - 110
2443434	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443359	Sulfate	103		P	90 - 110
2443434	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436288

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443435	Ammonia-N	99.8	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441614	NO2NO3-N	95.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443361	Total-P	112	112	F/F	90 - 110

Reference Method: EPA 8270E
Batch ID: P435920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442830	Aldrin	44.1	44.9	P/P	24 - 81.0
2442830	Alpha-BHC	85.7	73.0	P/P	65 - 110
2442830	Alpha-Chlordane	107	86.2	P/P	43 - 119
2442830	Beta-BHC	124	115	P/P	54 - 165
2442830	Beta-Cyfluthrin	69.6	67.8	P/P	27 - 165
2442830	Bifenthrin	43.4	42.7	P/P	17 - 117
2442830	Chlorothalonil	130	105	P/P	10 - 255
2442830	Cis-Nonachlor	90.2	75.4	P/P	34 - 98.0
2442830	Cypermethrin	47.6	44.8	P/P	25 - 143
2442830	Dacthal	93.1	78.5	P/P	55 - 139
2442830	DDD-p,p'	63.2	55.2	P/P	30 - 109
2442830	DDE-p,p'	61.3	50.3	P/P	35 - 106
2442830	DDT-p,p'	69.5	59.5	P/P	41 - 101
2442830	Delta-BHC	154	153	P/P	58 - 165
2442830	Deltamethrin	91.9	88.3	P/P	10 - 194
2442830	Dichlobenil	87.6	66.7	P/P	22 - 114
2442830	Dicofol	80.8	76.5	P/P	17 - 133
2442830	Dieldrin	62.9	55.9	P/P	45 - 129
2442830	Endosulfan I	69.3	59.3	P/P	49 - 104
2442830	Endosulfan II	79.2	76.5	P/P	37 - 117

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442830	Endosulfan Sulfate	103	82.9	P/P	38 - 128
2442830	Endrin	69.6	56.7	P/P	35 - 116
2442830	Endrin Aldehyde	86.8	71.1	P/P	19 - 108
2442830	Endrin Ketone	102	88.3	P/P	44 - 134
2442830	Esfenvalerate	81.4	79.3	P/P	27 - 176
2442830	Ethalfuralin	57.2	54.1	P/P	49 - 100
2442830	Fenpropathrin	66.8	54.9	P/P	34 - 117
2442830	Gamma-BHC	97.0	100	P/P	59 - 129
2442830	Gamma-Chlordane	99.0	94.3	P/P	33 - 107
2442830	Heptachlor	48.4	50.0	P/P	37 - 94.0
2442830	Heptachlor Epoxide	74.7	70.6	P/P	38 - 118
2442830	Hexachlorobenzene	70.8	60.9	P/P	35 - 97.0
2442830	Kepone	101	98.5	P/P	10 - 221
2442830	Lambda-Cyhalothrin	33.7	37.1	P/P	23 - 190
2442830	Methoprene	38.9	35.4	P/P	21 - 109
2442830	Methoxychlor	88.5	75.8	P/P	46 - 118
2442830	MGK-264	101	98.4	P/P	39 - 122
2442830	Mirex	52.5	55.7	P/P	25 - 90.0
2442830	Oxychlordane	63.2	51.5	P/P	42 - 100
2442830	Permethrin	63.6	57.9	P/P	33 - 181
2442830	Phenothrin	49.3	49.6	P/P	12 - 125
2442830	Piperonyl Butoxide	99.2	76.2	P/P	10 - 178
2442830	Prallethrin	66.2	72.1	P/P	24 - 122
2442830	Tau-Fluvalinate	72.7	69.4	P/P	13 - 151
2442830	Tetramethrin	71.7	69.4	P/P	16 - 172
2442830	Trans-Nonachlor	66.0	65.0	P/P	39 - 100
2442830	Triclosan Methyl	70.9	57.6	P/P	43 - 110
2442830	Trifluralin	62.4	50.4	P/P	45 - 94.0
2443209	PCB-1016	71.0	74.9	P/P	45 - 107
2443209	PCB-1260	71.2	72.2	P/P	40 - 112

Reference Method: EPA 8270E

Batch ID: P436252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443920	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	61.7	84.8	P/P	50 - 150
2443920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101	130	P/P	29 - 155
2443920	Avobenzene	110	142	P/P	35 - 187
2443920	Dechlorane 602	54.1	104	P/P	14 - 133
2443920	Dechlorane 603	93.4	117	P/P	18 - 191
2443920	Dechlorane Plus	81.5	110	P/P	23 - 154
2443920	Hexabromobenzene	108	123	P/P	47 - 178
2443920	Octinoxate	128	163	P/P	18 - 170
2443920	Oxybenzone	113	126	P/P	33 - 154
2443920	PBB-153	90.1	119	P/P	23 - 193
2443920	PBDE-47	79.6	122	P/P	31 - 139
2443920	PBDE-99	74.8	113	P/P	24 - 138
2443920	Pentabromotoluene	105	115	P/P	54 - 152
2443920	Tetradecachloro-m-terphenyl	124	153	P/P	10 - 260
2443920	Tri-o-cresyl Phosphate	101	123	P/P	32 - 151
2443920	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	151	P/P	51 - 154
2443920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.2	101	P/P	59 - 147

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443920	Tris(2-chloroethyl) phosphate (TCEP)	102	128	P/P	65 - 156

Reference Method: EPA 8270E

Batch ID: P436600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445279	Acetochlor	78.9	83.3	P/P	60 - 124
2445279	Alachlor	145	139	F/F	54 - 122
2445279	Ametryn	52.2	53.5	P/P	51 - 208
2445279	Azinphos Methyl	51.4	58.9	P/P	43 - 276
2445279	Butylate	37.2	40.1	P/P	23 - 82.0
2445279	Caffeine	122	119	P/P	10 - 277
2445279	Carbophenothion	48.0	53.8	P/P	47 - 135
2445279	Carfentrazone Ethyl	46.8	57.3	P/P	46 - 147
2445279	Chlorfenapyr	70.6	77.7	P/P	43 - 114
2445279	Chlorpyrifos Ethyl	78.6	85.2	P/P	47 - 124
2445279	Chlorpyrifos Methyl	65.5	68.5	P/P	60 - 135
2445279	Coumaphos	57.8	64.0	P/P	10 - 222
2445279	Cyanazine	65.6	46.8	P/P	10 - 257
2445279	Cyprodinil	75.9	84.3	P/P	42 - 148
2445279	Demeton	135	137	P/P	41 - 137
2445279	Diazinon	81.6	76.6	P/P	64 - 139
2445279	Difenoconazole	142	144	P/P	46 - 254
2445279	Dimethenamid	61.5	58.8	P/P	47 - 117
2445279	Dimethomorph	243	303	P/F	14 - 255
2445279	Disulfoton	79.3	76.8	P/P	52 - 130
2445279	Dithiopyr	22.1	25.3	F/F	40 - 121
2445279	EPTC	35.4	38.3	P/P	19 - 78.0
2445279	Ethion	41.4	35.5	P/P	12 - 124
2445279	Ethoprop	102	113	P/P	68 - 144
2445279	Etridiazole	29.7	29.5	P/P	26 - 96.0
2445279	Fenamiphos	107	101	P/P	41 - 129
2445279	Fenbuconazole	65.4	79.6	P/P	26 - 169
2445279	Fipronil Desulfinyl	48.1	53.2	P/P	47 - 136
2445279	Fipronil Sulfide	47.4	46.1	P/P	41 - 127
2445279	Fluazifop-P-butyl	54.6	77.6	P/P	46 - 131
2445279	Flumioxazin	112	167	P/P	10 - 289
2445279	Flutolanil	62.5	71.4	P/P	34 - 130
2445279	Fluxapyroxad	54.0	44.6	P/P	10 - 197
2445279	Fonofos	95.8	113	P/P	42 - 131
2445279	Hexazinone	116	90.8	P/P	64 - 125
2445279	Imazalil	45.7	47.6	P/P	37 - 252
2445279	Loratadine	154	152	P/P	20 - 231
2445279	Malathion	70.8	77.7	P/P	34 - 164
2445279	Metalaxyl	53.8	52.2	P/P	49 - 125
2445279	Mevinphos	119	117	P/P	46 - 130
2445279	Molinate	43.5	44.0	P/P	39 - 93.0
2445279	Myclobutanil	61.9	61.0	P/P	50 - 130
2445279	Naled	67.6	60.9	P/P	10 - 150
2445279	Napropamide	45.0	39.1	P/P	10 - 109
2445279	Norflurazon	51.6	41.4	P/P	36 - 134
2445279	Parathion Ethyl	69.2	92.6	P/P	65 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P436600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445279	Parathion Methyl	107	88.4	P/P	77 - 185
2445279	Pendimethalin	75.8	84.8	P/P	50 - 146
2445279	Phenytoin	122	130	P/P	10 - 157
2445279	Phorate	215	201	F/F	54 - 161
2445279	Prometryn	75.0	73.2	P/P	32 - 151
2445279	Pronamide	83.7	76.0	P/P	61 - 140
2445279	Propanil	103	84.6	P/P	50 - 147
2445279	Propargite	73.7	59.3	P/P	10 - 190
2445279	Pyraflufen Ethyl	50.4	52.1	P/P	30 - 147
2445279	Pyridaben	52.2	56.0	P/P	15 - 195
2445279	Pyriproxyfen	44.7	45.0	P/P	31 - 218
2445279	Simazine	91.6	99.2	P/P	45 - 139
2445279	Stirophos	37.7	45.7	P/P	10 - 134
2445279	Terbufos	136	139	P/P	65 - 151
2445279	Terbutylazine	66.0	65.8	P/P	62 - 117
2445279	Thiobencarb	80.7	113	P/P	48 - 122
2445279	Triadimefon	74.8	73.4	P/P	46 - 124

Reference Method: EPA 8276
Batch ID: P435920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443209	Chlordane	73.9	81.0	P/P	43 - 123
2443209	Toxaphene	71.7	85.1	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P436051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442904	2,4-D	97.0	100	P/P	40 - 150
2442904	2,4,5-T	94.2	100	P/P	40 - 150
2442904	Acetaminophen	72.3	73.1	P/P	30 - 150
2442904	Afidopyropen	74.9	84.8	P/P	30 - 150
2442904	Carbamazepine	61.7	66.8	P/P	40 - 150
2442904	Clothianidin	75.9	80.9	P/P	40 - 150
2442904	Dinotefuran	79.1	91.4	P/P	40 - 150
2442904	Diuron	63.3	66.3	P/P	40 - 150
2442904	Fenuron	55.8	60.2	P/P	40 - 150
2442904	Fluridone	79.6	80.7	P/P	40 - 150
2442904	Hydrocodone	76.3	81.4	P/P	40 - 150
2442904	Ibuprofen	54.7	58.3	P/P	40 - 150
2442904	Imazapyr	84.5	86.1	P/P	40 - 150
2442904	Imidacloprid	110	117	P/P	40 - 150
2442904	Linuron	80.4	71.0	P/P	40 - 150
2442904	Mandestrobin	92.7	97.7	P/P	40 - 150
2442904	MCCPP	89.2	98.2	P/P	40 - 150
2442904	Naproxen	75.8	71.0	P/P	40 - 150
2442904	Primidone	75.2	79.1	P/P	40 - 150
2442904	Pyraclostrobin	68.6	94.6	P/P	40 - 150
2442904	Silvex	103	100	P/P	40 - 150
2442904	Thiamethoxam	88.5	90.8	P/P	40 - 150
2442904	Tolfenpyrad	54.2	66.8	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P436051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442904	Triclopyr	97.1	101	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443202	3-Hydroxycarbofuran	83.1	87.1	P/P	40 - 150
2443202	Aldicarb	69.0	57.9	P/P	30 - 150
2443202	Aldicarb Sulfone	93.8	91.0	P/P	40 - 150
2443202	Aldicarb Sulfoxide	39.4	36.3	F/F	40 - 150
2443202	Carbaryl	57.6	54.4	P/P	40 - 150
2443202	Carbofuran	62.1	57.4	P/P	40 - 150
2443202	Methiocarb	59.3	47.1	P/P	40 - 150
2443202	Methomyl	68.0	65.0	P/P	40 - 150
2443202	Oxamyl	77.2	75.7	P/P	40 - 150
2443202	Propoxur	57.8	54.8	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436195

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443120	Acesulfame K	130	137	P/P	40 - 150
2443120	AMPA	84.8	82.8	P/P	40 - 150
2443120	Endothall	98.1	94.5	P/P	40 - 150
2443120	Glufosinate	78.9	77.4	P/P	40 - 150
2443120	Glyphosate	102	118	P/P	40 - 150
2443120	Sucralose	107	96.5	P/P	40 - 150

Reference Method: SM 5310 B-2011
Batch ID: P436407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443729	Organic Carbon	93.8	95.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436145

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443375	Color (true)	1.53	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436138

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443375	Turbidity	1.79	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443359	Chloride	0.911	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443359	Sulfate	1.11	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436288

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443435	Ammonia-N	0.737	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436271

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443329	Kjeldahl Nitrogen	3.05	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441614	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436220

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443361	Total-P	0.0670	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442830	Aldrin	1.80	Spike	P	0 - 41
2442830	Alpha-BHC	14.4	Spike	P	0 - 25
2442830	Alpha-Chlordane	21.8	Spike	P	0 - 32
2442830	Beta-BHC	7.46	Spike	P	0 - 33
2442830	Beta-Cyfluthrin	2.61	Spike	P	0 - 43
2442830	Bifenthrin	1.67	Spike	P	0 - 52
2442830	Chlorothalonil	21.3	Spike	P	0 - 82
2442830	Cis-Nonachlor	17.9	Spike	P	0 - 33
2442830	Cypermethrin	5.89	Spike	P	0 - 51
2442830	Dacthal	16.1	Spike	P	0 - 27
2442830	DDD-p,p'	13.6	Spike	P	0 - 39
2442830	DDE-p,p'	19.8	Spike	P	0 - 31
2442830	DDT-p,p'	15.5	Spike	P	0 - 29
2442830	Delta-BHC	0.730	Spike	P	0 - 35
2442830	Deltamethrin	4.09	Spike	P	0 - 100
2442830	Dichlobenil	27.1	Spike	P	0 - 40
2442830	Dicofol	5.52	Spike	P	0 - 37
2442830	Dieldrin	11.1	Spike	P	0 - 27
2442830	Endosulfan I	14.9	Spike	P	0 - 23
2442830	Endosulfan II	3.47	Spike	P	0 - 34
2442830	Endosulfan Sulfate	21.9	Spike	P	0 - 36
2442830	Endrin	20.5	Spike	P	0 - 45
2442830	Endrin Aldehyde	19.9	Spike	P	0 - 76
2442830	Endrin Ketone	14.3	Spike	P	0 - 43
2442830	Esfenvalerate	2.65	Spike	P	0 - 51
2442830	Ethalfuralin	4.73	Spike	P	0 - 22
2442830	Fenpropathrin	19.6	Spike	P	0 - 49
2442830	Gamma-BHC	2.98	Spike	P	0 - 28
2442830	Gamma-Chlordane	4.51	Spike	P	0 - 40
2442830	Heptachlor	3.32	Spike	P	0 - 29
2442830	Heptachlor Epoxide	5.63	Spike	P	0 - 33
2442830	Hexachlorobenzene	15.0	Spike	P	0 - 36
2442830	Kepone	2.93	Spike	P	0 - 85
2442830	Lambda-Cyhalothrin	9.85	Spike	P	0 - 55
2442830	Methoprene	9.42	Spike	P	0 - 53
2442830	Methoxychlor	15.5	Spike	P	0 - 50
2442830	MGK-264	2.67	Spike	P	0 - 43
2442830	Mirex	5.91	Spike	P	0 - 40
2442830	Oxychlordane	20.5	Spike	P	0 - 31
2442830	Permethrin	9.32	Spike	P	0 - 50
2442830	Phenothrin	0.457	Spike	P	0 - 58
2442830	Piperonyl Butoxide	26.2	Spike	P	0 - 100
2442830	Prallethrin	8.44	Spike	P	0 - 39
2442830	Tau-Fluvalinate	4.62	Spike	P	0 - 54
2442830	Tetramethrin	3.20	Spike	P	0 - 51
2442830	Trans-Nonachlor	1.58	Spike	P	0 - 39
2442830	Triclosan Methyl	20.7	Spike	P	0 - 31
2442830	Trifluralin	18.6	Spike	P	0 - 22
2443209	PCB-1016	5.42	Spike	P	0 - 25
2443209	PCB-1260	1.43	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443920	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	31.6	Spike	F	0 - 30
2443920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	25.2	Spike	P	0 - 35
2443920	Avobenzone	25.5	Spike	P	0 - 35
2443920	Dechlorane 602	62.9	Spike	F	0 - 60
2443920	Dechlorane 603	22.6	Spike	P	0 - 40
2443920	Dechlorane Plus	30.1	Spike	P	0 - 38
2443920	Hexabromobenzene	12.8	Spike	P	0 - 41
2443920	Octinoxate	23.6	Spike	P	0 - 35
2443920	Oxybenzone	11.1	Spike	P	0 - 35
2443920	PBB-153	27.7	Spike	P	0 - 49
2443920	PBDE-47	41.7	Spike	F	0 - 36
2443920	PBDE-99	40.6	Spike	P	0 - 46
2443920	Pentabromotoluene	9.70	Spike	P	0 - 16
2443920	Tetradecachloro-m-terphenyl	20.5	Spike	P	0 - 42
2443920	Tri-o-cresyl Phosphate	19.3	Spike	P	0 - 24
2443920	Tris(1-chloro-2-propyl) phosphate (TCPP)	16.8	Spike	P	0 - 30
2443920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	7.71	Spike	P	0 - 22
2443920	Tris(2-chloroethyl) phosphate (TCEP)	23.0	Spike	F	0 - 15

Reference Method: EPA 8270E

Batch ID: P436600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445279	Acetochlor	5.40	Spike	P	0 - 28
2445279	Alachlor	4.14	Spike	P	0 - 30
2445279	Ametryn	1.39	Spike	P	0 - 32
2445279	Atrazine	8.56	Spike	P	0 - 33
2445279	Atrazine Desethyl	0.366	Spike	P	0 - 36
2445279	Azinphos Methyl	13.6	Spike	P	0 - 62
2445279	Azoxystrobin	10.3	Spike	P	0 - 39
2445279	Bromacil	12.5	Spike	P	0 - 33
2445279	Butylate	7.69	Spike	P	0 - 51
2445279	Caffeine	3.16	Spike	P	0 - 100
2445279	Carbophenothion	11.4	Spike	P	0 - 34
2445279	Carfentrazone Ethyl	20.2	Spike	P	0 - 33
2445279	Chlorfenapyr	9.53	Spike	P	0 - 28
2445279	Chlorpyrifos Ethyl	8.07	Spike	P	0 - 31
2445279	Chlorpyrifos Methyl	4.56	Spike	P	0 - 27
2445279	Coumaphos	10.1	Spike	P	0 - 62
2445279	Cyanazine	33.4	Spike	P	0 - 48
2445279	Cyprodinil	10.5	Spike	P	0 - 29
2445279	Demeton	1.70	Spike	P	0 - 33
2445279	Diazinon	6.26	Spike	P	0 - 32
2445279	Difenoconazole	1.38	Spike	P	0 - 71
2445279	Dimethenamid	4.51	Spike	P	0 - 60
2445279	Dimethomorph	22.1	Spike	P	0 - 61
2445279	Disulfoton	3.17	Spike	P	0 - 30
2445279	Dithiopyr	13.5	Spike	P	0 - 28
2445279	EPTC	7.95	Spike	P	0 - 56
2445279	Ethion	15.1	Spike	P	0 - 79

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445279	Ethoprop	9.56	Spike	P	0 - 31
2445279	Etridiazole	0.781	Spike	P	0 - 43
2445279	Fenamiphos	5.95	Spike	P	0 - 43
2445279	Fenbuconazole	12.0	Spike	P	0 - 79
2445279	Fipronil	8.14	Spike	P	0 - 46
2445279	Fipronil Desulfinyl	5.92	Spike	P	0 - 36
2445279	Fipronil Sulfide	0.610	Spike	P	0 - 34
2445279	Fipronil Sulfone	21.5	Spike	P	0 - 47
2445279	Fluazifop-P-butyl	34.8	Spike	P	0 - 38
2445279	Fludioxonil	1.23	Spike	P	0 - 29
2445279	Flumioxazin	39.5	Spike	P	0 - 63
2445279	Flutolanil	13.3	Spike	P	0 - 36
2445279	Fluxapyroxad	19.1	Spike	P	0 - 65
2445279	Fonofos	16.5	Spike	P	0 - 35
2445279	Hexazinone	24.1	Spike	P	0 - 31
2445279	Imazalil	3.95	Spike	P	0 - 52
2445279	Iprodione	80.2	Spike	F	0 - 49
2445279	Loratadine	0.771	Spike	P	0 - 59
2445279	Malathion	9.27	Spike	P	0 - 77
2445279	Metalaxyl	2.87	Spike	P	0 - 76
2445279	Metolachlor	35.0	Spike	F	0 - 29
2445279	Metribuzin	26.5	Spike	P	0 - 51
2445279	Mevinphos	2.04	Spike	P	0 - 31
2445279	Molinate	1.20	Spike	P	0 - 39
2445279	Myclobutanil	1.23	Spike	P	0 - 34
2445279	Naled	10.5	Spike	P	0 - 37
2445279	Napropamide	14.1	Spike	P	0 - 100
2445279	Norflurazon	18.3	Spike	P	0 - 54
2445279	Oxadiazon	19.9	Spike	P	0 - 34
2445279	Oxyfluorfen	25.9	Spike	P	0 - 28
2445279	Parathion Ethyl	29.0	Spike	P	0 - 31
2445279	Parathion Methyl	18.7	Spike	P	0 - 29
2445279	Pendimethalin	11.2	Spike	P	0 - 31
2445279	Phenytol	6.93	Spike	P	0 - 100
2445279	Phorate	6.84	Spike	P	0 - 36
2445279	Prodiamine	12.1	Spike	P	0 - 68
2445279	Prometon	33.0	Spike	P	0 - 35
2445279	Prometryn	2.45	Spike	P	0 - 33
2445279	Pronamide	9.70	Spike	P	0 - 24
2445279	Propanil	19.4	Spike	P	0 - 28
2445279	Propargite	21.6	Spike	P	0 - 53
2445279	Propiconazole	13.6	Spike	P	0 - 44
2445279	Pyraflufen Ethyl	3.33	Spike	P	0 - 61
2445279	Pyridaben	6.92	Spike	P	0 - 43
2445279	Pyriproxyfen	0.578	Spike	P	0 - 82
2445279	Simazine	7.90	Spike	P	0 - 29
2445279	Stirophos	19.2	Spike	P	0 - 100
2445279	Sulfentrazone	26.4	Spike	P	0 - 64
2445279	Tebuconazole	17.3	Spike	P	0 - 76
2445279	Terbufos	1.99	Spike	P	0 - 29
2445279	Terbutylazine	0.306	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445279	Thiobencarb	33.1	Spike	F	0 - 26
2445279	Triadimefon	1.88	Spike	P	0 - 40

Reference Method: EPA 8276
Batch ID: P435920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443209	Chlordane	9.22	Spike	P	0 - 28
2443209	Toxaphene	17.2	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P436051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442904	2,4-D	3.12	Spike	P	0 - 30
2442904	2,4,5-T	6.11	Spike	P	0 - 30
2442904	Acetaminophen	1.11	Spike	P	0 - 30
2442904	Acetamiprid	4.12	Spike	P	0 - 30
2442904	Afidopyropen	12.5	Spike	P	0 - 30
2442904	Bentazon	11.9	Spike	P	0 - 30
2442904	Benzovindiflupyr	17.6	Spike	P	0 - 30
2442904	Carbamazepine	7.88	Spike	P	0 - 30
2442904	Clothianidin	6.10	Spike	P	0 - 30
2442904	Dinotefuran	7.96	Spike	P	0 - 30
2442904	Diuron	3.68	Spike	P	0 - 30
2442904	Fenuron	7.67	Spike	P	0 - 30
2442904	Fluridone	1.42	Spike	P	0 - 30
2442904	Hydrocodone	6.42	Spike	P	0 - 30
2442904	Ibuprofen	6.42	Spike	P	0 - 30
2442904	Imazapyr	1.88	Spike	P	0 - 30
2442904	Imidacloprid	4.83	Spike	P	0 - 30
2442904	Linuron	12.5	Spike	P	0 - 30
2442904	Mandestrobin	5.25	Spike	P	0 - 30
2442904	MCPP	9.62	Spike	P	0 - 30
2442904	Naproxen	6.49	Spike	P	0 - 30
2442904	Primidone	5.05	Spike	P	0 - 30
2442904	Pyraclostrobin	17.4	Spike	P	0 - 30
2442904	Silvex	2.89	Spike	P	0 - 30
2442904	Thiamethoxam	2.32	Spike	P	0 - 30
2442904	Tolfenpyrad	20.8	Spike	P	0 - 30
2442904	Triclopyr	4.32	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443202	3-Hydroxycarbofuran	4.73	Spike	P	0 - 30
2443202	Aldicarb	17.5	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443202	Aldicarb Sulfone	3.09	Spike	P	0 - 30
2443202	Aldicarb Sulfoxide	8.14	Spike	P	0 - 30
2443202	Carbaryl	5.72	Spike	P	0 - 30
2443202	Carbofuran	7.74	Spike	P	0 - 30
2443202	Methiocarb	22.8	Spike	P	0 - 30
2443202	Methomyl	4.52	Spike	P	0 - 30
2443202	Oxamyl	1.92	Spike	P	0 - 30
2443202	Propoxur	5.26	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443120	Acesulfame K	5.11	Spike	P	0 - 30
2443120	AMPA	2.10	Spike	P	0 - 30
2443120	Endothall	3.74	Spike	P	0 - 30
2443120	Glufosinate	1.83	Spike	P	0 - 30
2443120	Glyphosate	14.9	Spike	P	0 - 30
2443120	Sucralose	9.69	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P436470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443359	Total Alkalinity	0.0706	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443373	TDS	11.4	Sample	F	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P436583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443373	TSS	6.56	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443359	Fluoride	0.480	Spike	P	0 - 1.9

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P436407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443729	Organic Carbon	1.44	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2443417
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	40.5	P	30 - 160

Lab Sample ID: 2443418
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	84.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	59.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.8	P	30 - 160
EPA 8321B	Diuron-d6	42.7	P	30 - 160
EPA 8321B	Endothall-d6	106	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	82.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.1	P	30 - 160
EPA 8321B	Primidone-d5	50.3	P	30 - 160
EPA 8321B	Sucralose-d6	94.8	P	30 - 160

Lab Sample ID: 2443420
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	78.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	62.7	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	50.7	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	47.2	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	53.0	P	28 - 102
EPA 8276	PCNB	114	P	49 - 115

Lab Sample ID: 2443421
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	81.6	P	20 - 200
EPA 8270E	Simazine-d10	92.1	P	58 - 137
EPA 8270E	Terbufos-d10	89.2	P	50 - 134
EPA 8270E	Terphenyl-d14	87.7	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122011

Included Lab Sample IDs: 2443402

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: A122013

Included Lab Sample IDs: 2443402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122048

Included Lab Sample IDs: 2443403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.4	98.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122058

Included Lab Sample IDs: 2443418

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	116	129	P/P	60 - 160
Sucralose	103	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122059

Included Lab Sample IDs: 2443418

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.2	103	P/P	60 - 160
Endothall	83.0	74.7	P/P	60 - 160
Glufosinate	88.7	80.3	P/P	60 - 160
Glyphosate	87.3	81.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122063

Included Lab Sample IDs: 2443418

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	106	105	P/P	50 - 150
2,4,5-T	97.5	114	P/P	50 - 150
Acetaminophen	111	109	P/P	60 - 160
Acetamiprid	109	115	P/P	50 - 150
Afidopyropen	120	114	P/P	50 - 150
Bentazon	137	94.3	P/P	50 - 160
Benzovindiflupyr	127	133	P/P	50 - 150
Carbamazepine	101	103	P/P	60 - 150
Clothianidin	100	102	P/P	60 - 150
Dinotefuran	108	106	P/P	50 - 150
Diuron	113	115	P/P	60 - 160
Fenuron	106	102	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122063
Included Lab Sample IDs: 2443418

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	154	117	P/P	60 - 160
Hydrocodone	120	127	P/P	60 - 150
Ibuprofen	129	67.1	P/P	50 - 160
Imazapyr	101	103	P/P	50 - 150
Imidacloprid	97.2	98.3	P/P	60 - 150
Linuron	141	148	P/P	60 - 150
Mandestrobin	125	124	P/P	50 - 150
MCP	104	104	P/P	50 - 150
Naproxen	67.2	71.8	P/P	50 - 160
Primidone	94.7	98.7	P/P	60 - 150
Pyraclostrobin	105	110	P/P	60 - 150
Silvex	109	114	P/P	50 - 150
Thiamethoxam	108	114	P/P	50 - 150
Tolfenpyrad	105	113	P/P	60 - 150
Triclopyr	96.5	117	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122066
Included Lab Sample IDs: 2443402

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

Reference Method: SM 4500-F- C-2011
Run ID: A122079
Included Lab Sample IDs: 2443402

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122094
Included Lab Sample IDs: 2443403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	97.0	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A122112
Included Lab Sample IDs: 2443403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	95.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122128
Included Lab Sample IDs: 2443403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A122131

Included Lab Sample IDs: 2443402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.6	94.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122149

Included Lab Sample IDs: 2443403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	97.5	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A122163

Included Lab Sample IDs: 2443420

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.1		P	80 - 120
Toxaphene	91.0		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122187

Included Lab Sample IDs: 2443420

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.6		P	80 - 120
PCB-1260	95.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122245

Included Lab Sample IDs: 2443421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	96.8		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.4		P	80 - 120
Avobenzone	94.0		P	80 - 120
Dechlorane 602	96.9		P	80 - 120
Dechlorane 603	93.2		P	80 - 120
Dechlorane Plus	94.0		P	80 - 120
Hexabromobenzene	92.3		P	80 - 120
Octinoxate	92.5		P	80 - 120
Oxybenzone	101		P	80 - 120
PBB-153	91.8		P	80 - 120
PBDE-47	93.6		P	80 - 120
PBDE-99	95.6		P	80 - 120
Pentabromotoluene	104		P	80 - 120
Tetradecachloro-m-terphenyl	90.8		P	80 - 120
Tri-o-cresyl Phosphate	98.5		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.9		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122254
Included Lab Sample IDs: 2443420

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.4		P	80 - 120
Alpha-BHC	94.9		P	80 - 120
Alpha-Chlordane	105		P	80 - 120
Beta-BHC	95.2		P	80 - 120
Beta-Cyfluthrin	90.0		P	80 - 120
Bifenthrin	88.6		P	80 - 120
Chlorothalonil	85.0		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	92.4		P	80 - 120
Dacthal	97.4		P	80 - 120
DDD-p,p'	97.1		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	91.5		P	80 - 120
Delta-BHC	93.9		P	80 - 120
Deltamethrin	88.8		P	80 - 120
Dichlobenil	96.8		P	80 - 120
Dicofol	98.2		P	80 - 120
Dieldrin	95.9		P	80 - 120
Endosulfan I	88.4		P	80 - 120
Endosulfan II	98.7		P	80 - 120
Endosulfan Sulfate	110		P	80 - 120
Endrin	99.5		P	80 - 120
Endrin Aldehyde	109		P	80 - 120
Endrin Ketone	96.7		P	80 - 120
Esfenvalerate	82.4		P	80 - 120
Ethalfuralin	95.0		P	80 - 120
Fenpropathrin	92.3		P	80 - 120
Gamma-BHC	99.6		P	80 - 120
Gamma-Chlordane	106		P	80 - 120
Heptachlor	88.3		P	80 - 120
Heptachlor Epoxide	94.5		P	80 - 120
Hexachlorobenzene	85.7		P	80 - 120
Kepone	96.5		P	80 - 120
Lambda-Cyhalothrin	87.4		P	80 - 120
Methoprene	97.6		P	80 - 120
Methoxychlor	88.3		P	80 - 120
MGK-264	96.3		P	80 - 120
Mirex	108		P	80 - 120
Oxychlordane	97.3		P	80 - 120
Permethrin	88.5		P	80 - 120
Phenothrin	88.6		P	80 - 120
Piperonyl Butoxide	80.0		P	80 - 120
Prallethrin	94.0		P	80 - 120
Tau-Fluvalinate	83.1		P	80 - 120
Tetramethrin	81.6		P	80 - 120
Trans-Nonachlor	98.5		P	80 - 120
Triclosan Methyl	92.6		P	80 - 120
Trifluralin	98.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122357
Included Lab Sample IDs: 2443421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	88.7		P	80 - 120
Alachlor	97.4		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	95.5		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	108		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	92.6		P	80 - 120
Chlorpyrifos Ethyl	92.8		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	93.6		P	80 - 120
Cyanazine	87.9		P	80 - 120
Cyprodinil	109		P	80 - 120
Demeton	109		P	80 - 120
Diazinon	96.1		P	80 - 120
Difenoconazole	99.3		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	96.2		P	80 - 120
Disulfoton	96.5		P	80 - 120
Dithiopyr	108		P	80 - 120
EPTC	97.5		P	80 - 120
Ethion	86.6		P	80 - 120
Ethoprop	82.6		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	96.0		P	80 - 120
Fipronil	88.5		P	80 - 120
Fipronil Desulfinyl	112		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	98.2		P	80 - 120
Fludioxonil	95.6		P	80 - 120
Flumioxazin	95.5		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	105		P	80 - 120
Fonofos	94.2		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	98.2		P	80 - 120
Iprodione	86.3		P	80 - 120
Loratadine	94.1		P	80 - 120
Malathion	86.4		P	80 - 120
Metalaxyl	94.9		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	82.6		P	80 - 120
Molinate	85.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122357
Included Lab Sample IDs: 2443421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	98.8		P	80 - 120
Naled	102		P	80 - 120
Napropamide	99.1		P	80 - 120
Norflurazon	95.0		P	80 - 120
Oxadiazon	118		P	80 - 120
Oxyfluorfen	107		P	80 - 120
Parathion Ethyl	96.5		P	80 - 120
Parathion Methyl	103		P	80 - 120
Pendimethalin	106		P	80 - 120
Phenytoin	101		P	80 - 120
Phorate	88.3		P	80 - 120
Prodiamine	111		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	99.2		P	80 - 120
Propargite	100		P	80 - 120
Propiconazole	92.4		P	80 - 120
Pyraflufen Ethyl	97.4		P	80 - 120
Pyridaben	99.0		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	105		P	80 - 120
Stiophos	93.1		P	80 - 120
Sulfentrazone	112		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	91.7		P	80 - 120
Terbuthylazine	91.3		P	80 - 120
Thiobencarb	107		P	80 - 120
Triadimefon	109		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	100				1.53	
EPA 180.1 Rev. 2.0	Turbidity	105				1.79	
EPA 300.0 Rev. 2.1	Chloride	104	104	105		0.911	
	Sulfate	104	103	105		1.11	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	99.8	101			0.737
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105					3.05
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	97.5	95.5				0.0
EPA 365.1 Rev. 2.0	Total-P	108	112	112			0.0670
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	75.1	61.7	84.8			31.6
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	101	130			25.2
	Acetochlor	96.6	78.9	83.3			5.40
	Alachlor	99.8	145	139			4.14
	Aldrin	50.4	44.1	44.9			1.80
	Alpha-BHC	86.0	85.7	73.0			14.4
	Alpha-Chlordane	92.1	107	86.2			21.8
	Ametryn	106	52.2	53.5			1.39
	Atrazine	89.3					8.56
	Atrazine Desethyl	79.0					0.366
	Avobenzone	119	110	142			25.5
	Azinphos Methyl	93.7	51.4	58.9			13.6
	Azoxystrobin	86.7					10.3
	Beta-BHC	109	124	115			7.46
	Beta-Cyfluthrin	70.0	69.6	67.8			2.61
	Bifenthrin	49.5	42.7	43.4			1.67
	Bromacil	77.9					12.5
	Butylate	42.7	37.2	40.1			7.69
	Caffeine	88.2	122	119			3.16
	Carbophenothion	90.0	48.0	53.8			11.4
	Carfentrazone Ethyl	97.3	46.8	57.3			20.2
	Chlorfenapyr	65.2	70.6	77.7			9.53
	Chlorothalonil	124	105	130			21.3
	Chlorpyrifos Ethyl	86.4	78.6	85.2			8.07
	Chlorpyrifos Methyl	83.0	65.5	68.5			4.56
	Cis-Nonachlor	84.7	75.4	90.2			17.9
	Coumaphos	76.4	57.8	64.0			10.1
	Cyanazine	113	65.6	46.8			33.4
	Cypermethrin	47.4	44.8	47.6			5.89
	Cyprodinil	83.7	75.9	84.3			10.5
	Dacthal	86.6	78.5	93.1			16.1
	DDD-p,p'	59.0	55.2	63.2			13.6
	DDE-p,p'	51.5	50.3	61.3			19.8
	DDT-p,p'	63.3	59.5	69.5			15.5
	Dechlorane 602	80.1	54.1	104			62.9
	Dechlorane 603	111	93.4	117			22.6
	Dechlorane Plus	94.8	81.5	110			30.1
	Delta-BHC	142	153	154			0.730
	Deltamethrin	81.7	88.3	91.9			4.09
	Demeton	54.6	135	137			1.70
	Diazinon	95.9	81.6	76.6			6.26
	Dichlobenil	78.7	66.7	87.6			27.1
	Dicofol	77.0	76.5	80.8			5.52

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dieldrin	59.5	55.9	62.9		11.1
	Difenoconazole	99.2	142	144		1.38
	Dimethenamid	74.7	61.5	58.8		4.51
	Dimethomorph	139	243	303		22.1
	Disulfoton	94.6	79.3	76.8		3.17
	Dithiopyr	69.5	22.1	25.3		13.5
	Endosulfan I	66.7	59.3	69.3		14.9
	Endosulfan II	68.6	76.5	79.2		3.47
	Endosulfan Sulfate	93.4	82.9	103		21.9
	Endrin	55.5	56.7	69.6		20.5
	Endrin Aldehyde	82.4	71.1	86.8		19.9
	Endrin Ketone	91.6	88.3	102		14.3
	EPTC	38.8	35.4	38.3		7.95
	Esfenvalerate	80.6	79.3	81.4		2.65
	Ethalfuralin	76.2	54.1	57.2		4.73
	Ethion	74.4	41.4	35.5		15.1
	Ethoprop	74.0	102	113		9.56
	Etridiazole	41.9	29.7	29.5		0.781
	Fenamiphos	80.7	107	101		5.95
	Fenbuconazole	58.4	65.4	79.6		12.0
	Fenpropathrin	60.6	54.9	66.8		19.6
	Fipronil	77.3				8.14
	Fipronil Desulfinyl	76.7	48.1	53.2		5.92
	Fipronil Sulfide	65.6	47.4	46.1		0.610
	Fipronil Sulfone	70.8				21.5
	Fluazifop-P-butyl	75.3	54.6	77.6		34.8
	Fludioxonil	68.5				1.23
	Flumioxazin	97.7	112	167		39.5
	Flutolanil	67.1	62.5	71.4		13.3
	Fluxapyroxad	82.7	54.0	44.6		19.1
	Fonofos	88.2	95.8	113		16.5
	Gamma-BHC	109	100	97.0		2.98
	Gamma-Chlordane	99.4	94.3	99.0		4.51
	Heptachlor	57.3	48.4	50.0		3.32
	Heptachlor Epoxide	75.7	70.6	74.7		5.63
	Hexabromobenzene	120	108	123		12.8
	Hexachlorobenzene	64.6	60.9	70.8		15.0
	Hexazinone	86.4	116	90.8		24.1
	Imazalil	86.1	45.7	47.6		3.95
	Iprodione	80.4				80.2
	Kepone	88.8	98.5	101		2.93
	Lambda-Cyhalothrin	37.2	37.1	33.7		9.85
	Loratadine	112	154	152		0.771
	Malathion	93.1	70.8	77.7		9.27
	Metalaxyl	81.1	53.8	52.2		2.87
	Methoprene	45.0	35.4	38.9		9.42
	Methoxychlor	78.7	75.8	88.5		15.5
	Metolachlor	87.2				35.0
	Metribuzin	87.0				26.5
	Mevinphos	89.4	119	117		2.04
	MGK-264	99.0	98.4	101		2.67
	Mirex	50.4	55.7	52.5		5.91
	Molinate	39.0	43.5	44.0		1.20
	Myclobutanil	69.0	61.9	61.0		1.23

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Naled	36.6	67.6	60.9		10.5
	Napropamide	80.0	45.0	39.1		14.1
	Norflurazon	98.3	51.6	41.4		18.3
	Octinoxate	145	128	163		23.6
	Oxadiazon	64.9				19.9
	Oxybenzone	123	113	126		11.1
	Oxychlorthane	64.7	51.5	63.2		20.5
	Oxyfluorfen	91.1				25.9
	Parathion Ethyl	87.0	69.2	92.6		29.0
	Parathion Methyl	95.4	107	88.4		18.7
	PBB-153	108	90.1	119		27.7
	PBDE-47	102	79.6	122		41.7
	PBDE-99	94.9	74.8	113		40.6
	PCB-1016	69.2	71.0	74.9		5.42
	PCB-1260	76.3	71.2	72.2		1.43
	Pendimethalin	87.7	75.8	84.8		11.2
	Pentabromotoluene	115	105	115		9.70
	Permethrin	62.9	57.9	63.6		9.32
	Phenothrin	53.3	49.6	49.3		0.457
	Phenytol	115	122	130		6.93
	Phorate	110	215	201		6.84
	Piperonyl Butoxide	91.1	76.2	99.2		26.2
	Prallethrin	63.1	72.1	66.2		8.44
	Prodiamine	44.1				12.1
	Prometon	108				33.0
	Prometryn	83.6	75.0	73.2		2.45
	Pronamide	99.3	83.7	76.0		9.70
	Propanil	89.8	103	84.6		19.4
	Propargite	68.0	73.7	59.3		21.6
	Propiconazole	69.7				13.6
	Pyraflufen Ethyl	93.3	50.4	52.1		3.33
	Pyridaben	95.8	52.2	56.0		6.92
	Pyriproxyfen	67.6	44.7	45.0		0.578
	Simazine	87.3	91.6	99.2		7.90
	Stirophos	61.9	37.7	45.7		19.2
	Sulfentrazon	59.2				26.4
	Tau-Fluvalinate	67.6	69.4	72.7		4.62
	Tebuconazole	76.4				17.3
	Terbufos	87.7	136	139		1.99
	Terbutylazine	67.5	66.0	65.8		0.306
	Tetradecachloro-m-terphenyl	109	124	153		20.5
	Tetramethrin	72.4	69.4	71.7		3.20
	Thiobencarb	72.8	80.7	113		33.1
	Trans-Nonachlor	64.1	65.0	66.0		1.58
	Tri-o-cresyl Phosphate	123	101	123		19.3
	Triadimefon	65.3	74.8	73.4		1.88
	Triclosan Methyl	67.1	57.6	70.9		20.7
	Trifluralin	63.5	50.4	62.4		18.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	140	127	151		16.8
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106	93.2	101		7.71
	Tris(2-chloroethyl) phosphate (TCEP)	109	102	128		23.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8276	Chlordane	90.2	73.9	81.0		9.22
	Toxaphene	85.9	71.7	85.1		17.2
EPA 8321B	2,4-D	89.1	97.0	100		3.12
	2,4,5-T	94.6	94.2	100		6.11
	3-Hydroxycarbofuran	72.3	83.1	87.1		4.73
	Acesulfame K	106	130	137		5.11
	Acetaminophen	77.3	72.3	73.1		1.11
	Acetamiprid	83.5				4.12
	Afidopyropen	77.9	74.9	84.8		12.5
	Aldicarb	66.5	69.0	57.9		17.5
	Aldicarb Sulfone	88.6	93.8	91.0		3.09
	Aldicarb Sulfoxide	100	39.4	36.3		8.14
	AMPA	93.4	84.8	82.8		2.10
	Bentazon	91.8				11.9
	Benzovindiflupyr	78.7				17.6
	Carbamazepine	76.3	61.7	66.8		7.88
	Carbaryl	73.5	57.6	54.4		5.72
	Carbofuran	85.9	62.1	57.4		7.74
	Clothianidin	84.6	75.9	80.9		6.10
	Dinotefuran	90.8	79.1	91.4		7.96
	Diuron	81.3	63.3	66.3		3.68
	Endothall	90.0	98.1	94.5		3.74
	Fenuron	79.0	55.8	60.2		7.67
	Fluridone	101	79.6	80.7		1.42
	Glufosinate	78.2	78.9	77.4		1.83
	Glyphosate	73.9	102	118		14.9
	Hydrocodone	97.2	76.3	81.4		6.42
	Ibuprofen	76.6	54.7	58.3		6.42
	Imazapyr	84.1	84.5	86.1		1.88
	Imidacloprid	78.2	110	117		4.83
	Linuron	85.9	80.4	71.0		12.5
	Mandestrobin	88.4	92.7	97.7		5.25
	MCPP	91.8	89.2	98.2		9.62
	Methiocarb	61.3	59.3	47.1		22.8
	Methomyl	74.7	68.0	65.0		4.52
	Naproxen	55.2	75.8	71.0		6.49
	Oxamyl	81.4	77.2	75.7		1.92
	Primidone	82.7	75.2	79.1		5.05
	Propoxur	80.6	57.8	54.8		5.26
	Pyraclostrobin	73.2	68.6	94.6		17.4
	Silvex	77.7	103	100		2.89
	Sucralose	91.3	107	96.5		9.69
	Thiamethoxam	90.7	88.5	90.8		2.32
	Tolfenpyrad	49.8	54.2	66.8		20.8
	Triclopyr	101	97.1	101		4.32
SM 2320 B-2011	Total Alkalinity	97.7			0.0706	
SM 2540 C-2015	TDS	106			11.4	
SM 2540 D-2015	TSS	108			6.56	
SM 4500-F- C-2011	Fluoride	98.8				0.480
SM 5310 B-2011	Organic Carbon	97.4	93.8	95.5		1.44

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2443402
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2443402
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2443402
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2443402
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2443403
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2443403
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2443403
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2443403
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2443421
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2443420
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2443421
EPA 8270E	PCBs in water matrices by GC/MS/MS	2443420
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2443420
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2443417
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2443418
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2443402
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2443402
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2443402
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2443402
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2443403

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	10/06/2023			10/06/2023 15:49	Alexis Price	2443402
EPA 180.1 Rev. 2.0	10/06/2023			10/06/2023 14:43	Khloe J Berg	2443402
EPA 300.0 Rev. 2.1	10/06/2023			10/10/2023 12:55	James L Waggeberby	2443402
EPA 350.1 Rev. 2.0	10/06/2023			10/10/2023 14:38	Ping Hua	2443403
EPA 351.2 Rev. 2.0	10/06/2023	10/12/2023 09:10	Ping Hua	10/12/2023 17:03	Ping Hua	2443403
EPA 353.2 Rev. 2.0	10/06/2023			10/11/2023 14:53	Fadila Guebre	2443403
EPA 365.1 Rev. 2.0	10/06/2023	10/10/2023 15:15	Adam P Silver	10/13/2023 12:31	James L Waggeberby	2443403
EPA 8270E	10/06/2023	10/10/2023 08:00	Fe-Val Siddell	10/12/2023 07:08	Julie Wi	2443420
	10/06/2023	10/10/2023 08:00	Fe-Val Siddell	10/18/2023 03:58	Julie Wi	2443420
	10/06/2023	10/11/2023 08:30	Rasheda Ghaffari	10/16/2023 23:41	Arthur Maknenko	2443421
	10/06/2023	10/17/2023 08:30	Rasheda Ghaffari	10/20/2023 16:28	Vandana T. Nagar	2443421
EPA 8276	10/06/2023	10/10/2023 08:00	Fe-Val Siddell	10/12/2023 17:34	Lipi Saha	2443420
EPA 8321B	10/06/2023	10/06/2023 13:00	Hoor Shaik	10/10/2023 03:55	Juyoung Kim	2443418
	10/06/2023	10/10/2023 06:00	Hana Lee	10/10/2023 13:31	Tae K Lee	2443418
	10/06/2023	10/10/2023 06:00	Hana Lee	10/10/2023 23:34	Tae K Lee	2443418
	10/06/2023	10/10/2023 09:00	Hoor Shaik	10/10/2023 21:08	Juyoung Kim	2443417
SM 2320 B-2011	10/06/2023			10/12/2023 23:50	Chandler E Cox	2443402
SM 2540 C-2015	10/06/2023			10/11/2023 15:58	Yijie Li	2443402
SM 2540 D-2015	10/06/2023			10/11/2023 15:58	Yijie Li	2443402
SM 4500-F- C-2011	10/06/2023			10/09/2023 23:34	Dale L. Simmons	2443402
SM 5310 B-2011	10/06/2023			10/11/2023 18:23	Elise M. Gillis	2443403