Chemical Analysis Report

NE-DIST-2023-07-06-01

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

Event Description: **LSJR Hastings 2023**
Request ID: **RQ-2023-07-10-21**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 31-JUL-2023 15:13

B. Steinbock

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: COW CREEK AT PUTNAM COUNTY BLVD **Collection Date/Time: 07/05/2023 09:50**

Field ID: G2NE1143 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421478	DEP SOP: NU-094-1	Color (true)	62		PCU	P432118	
	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P432131	
	EPA 300.0 Rev. 2.1	Chloride	240		mg Cl/L	P432317	
		Sulfate	130		mg SO4/L	P432320	
	SM 2320 B-2011	Total Alkalinity	215		mg CaCO3/L	P432220	
	SM 2540 C-2015	TDS	869	A	mg/L	P432425	
	SM 2540 D-2015	TSS	3	I A	mg/L	P432324	
	SM 4500-F- C-2011	Fluoride	0.46		mg F/L	P432224	
2421479	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P432182	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P432145	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.25		mg N/L	P432239	
	EPA 365.1 Rev. 2.0	Total-P	0.68		mg P/L	P432190	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P432215	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 2540 D-2015: 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 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: SIXTEEN MILE CREEK AT ASHLEY ST **Collection Date/Time: 07/05/2023 10:25**

Field ID: 20030688 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421486	EPA 8321B	2,4-D	0.38		ug/L	P432171	
		Acesulfame K	0.10	U	ug/L	P432281	
		2,4,5-T	0.0040	U	ug/L	P432171	
		AMPA	1.3		ug/L	P432281	
		Acetaminophen	0.0080	U	ug/L	P432171	
		Acetamiprid	0.0020	U	ug/L	P432171	
		Endothall	0.25	U	ug/L	P432281	
		Glufosinate	0.10	U	ug/L	P432281	
		Glyphosate	2.2		ug/L	P432281	
		Afidopyropen	0.0020	U	ug/L	P432171	
		Bentazon	9.9E-04	I	ug/L	P432171	
		Sucralose	0.11		ug/L	P432281	
		Benzovindiflupyr	0.030		ug/L	P432171	
		Carbamazepine	8.0E-04	U	ug/L	P432171	
		Clothianidin	0.084		ug/L	P432171	
		Dinotefuran	0.0020	U	ug/L	P432171	
		Diuron	0.014		ug/L	P432171	
		Fenuron	0.032	U	ug/L	P432171	
		Fluridone	0.023		ug/L	P432171	
		Imazapyr	0.48		ug/L	P432171	
		Hydrocodone	0.0020	U	ug/L	P432171	
		Ibuprofen	0.080	U	ug/L	P432171	
		Imidacloprid	0.14		ug/L	P432171	
		Linuron	0.0040	U	ug/L	P432171	
		Mandestrobin	0.0020	U	ug/L	P432171	
		MCPP	0.0020	U	ug/L	P432171	
		Naproxen	0.0080	U	ug/L	P432171	
		Primidone	0.0040	U	ug/L	P432171	
		Pyraclostrobin	0.0020	U	ug/L	P432171	
		Silvex	0.0040	U	ug/L	P432171	
		Thiamethoxam	0.015		ug/L	P432171	
		Tolfenpyrad	0.0020	U	ug/L	P432171	
		Triclopyr	0.0040	U	ug/L	P432171	

Sample Location: UNNAMED DITCH AT COWPEN BRANCH RD **Collection Date/Time: 07/05/2023 10:50**

Field ID: G2NE1222 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421485	EPA 8270E	Oxybenzone**	10	U	ng/L	P432051	
		Acetochlor	0.21	U	ng/L	P432051	
		Octinoxate**	160	U	ng/L	P432051	
		Alachlor	0.42	U	ng/L	P432051	
		Avobenzone**	100	U	ng/L	P432051	
		Ametryn	1.1	U	ng/L	P432051	
		Atrazine	0.45	I	ng/L	P432051	
		PBDE-47**	4.2	U	ng/L	P432051	
		Atrazine Desethyl	1.4	U	ng/L	P432051	
		PBDE-99**	5.2	U	ng/L	P432051	
		Azinphos Methyl	3.1	U	ng/L	P432051	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P432051	
		Azoxystrobin	260	J	ng/L	P432051	
		Bromacil	0.62	U	ng/L	P432051	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P432051	
		Butylate	0.21	U	ng/L	P432051	
		Dechlorane Plus**	31	U	ng/L	P432051	
		Caffeine**	7.8	U	ng/L	P432051	MS
		Dechlorane 602**	5.2	U	ng/L	P432051	
		Carbophenothion	0.52	U	ng/L	P432051	
		Dechlorane 603**	4.2	U	ng/L	P432051	
		Carfentrazone Ethyl	0.16	U	ng/L	P432051	
		Hexabromobenzene**	6.2	U	ng/L	P432051	RPD
		Chlorfenapyr	0.31	U	ng/L	P432051	
		PBB-153**	8.3	U	ng/L	P432051	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P432051	
		Pentabromotoluene**	3.1	U	ng/L	P432051	
		Chlorpyrifos Methyl	0.10	U	ng/L	P432051	
		Tris(2-chloroethyl) phosphate (TCEP)**	73	U	ng/L	P432051	
		Coumaphos	1.1	U	ng/L	P432051	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	41	I	ng/L	P432051	
		Cyanazine	5.2	U	ng/L	P432051	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.5	I	ng/L	P432051	
		Cyprodinil	0.21	U	ng/L	P432051	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P432051	
		Demeton	3.6	U	ng/L	P432051	
		Diazinon	0.13	U	ng/L	P432051	RPD
		Difenoconazole	7.5		ng/L	P432051	
		Dimethenamid	0.10	U	ng/L	P432051	
		Dimethomorph	0.31	U	ng/L	P432051	MS
		Disulfoton	0.62	U	ng/L	P432051	
		Dithiopyr	1.0	U	ng/L	P432051	RPD

Field ID: G2NE1222 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421485	EPA 8270E	EPTC	2.4	I	ng/L	P432051	
		Ethion	0.31	U	ng/L	P432051	
		Ethoprop	34		ng/L	P432051	
		Etridiazole	0.10	U	ng/L	P432051	
		Fenamiphos	0.47	U	ng/L	P432051	
		Fenbuconazole	0.52	UJ	ng/L	P432051	LCS
		Fipronil	19		ng/L	P432051	
		Fipronil Desulfinyl**	6.2		ng/L	P432051	
		Fipronil Sulfide	46		ng/L	P432051	
		Fipronil Sulfone	38		ng/L	P432051	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P432051	LCS, MS
		Fludioxonil	95		ng/L	P432051	
		Flumioxazin	3.1	U	ng/L	P432051	
		Flutolanil	0.10	U	ng/L	P432051	
		Fluxapyroxad	0.45	I	ng/L	P432051	
		Fonofos	0.16	U	ng/L	P432051	RPD
		Hexazinone	0.52	U	ng/L	P432051	
		Imazalil	0.68	U	ng/L	P432051	
		Iprodione	0.52	U	ng/L	P432051	
		Loratadine**	0.31	U	ng/L	P432051	
		Malathion	0.36	U	ng/L	P432051	
		Metalaxyl	19		ng/L	P432051	
		Metolachlor	3.0	I	ng/L	P432051	
		Metribuzin	57		ng/L	P432051	
		Mevinphos	1.0	U	ng/L	P432051	
		Molinate	0.26	U	ng/L	P432051	
		Myclobutanil	0.36	U	ng/L	P432051	
		Naled	2.6	U	ng/L	P432051	
		Napropamide	0.73	U	ng/L	P432051	
		Norflurazon	1.0	U	ng/L	P432051	
		Oxadiazon	0.67	I	ng/L	P432051	
		Oxyfluorfen	0.21	U	ng/L	P432051	
		Parathion Ethyl	0.16	U	ng/L	P432051	
		Parathion Methyl	0.21	U	ng/L	P432051	
		Pendimethalin	0.78	U	ng/L	P432051	
		Phenytoin**	5.5	U	ng/L	P432051	
		Phorate	0.26	U	ng/L	P432051	
		Prodiamine	0.21	U	ng/L	P432051	MS
		Prometon	3.1	U	ng/L	P432051	
		Prometryn	0.36	U	ng/L	P432051	
		Pronamide	0.10	U	ng/L	P432051	
		Propanil	0.10	U	ng/L	P432051	
		Propargite	0.83	U	ng/L	P432051	
		Propiconazole	90		ng/L	P432051	
		Pyraflufen Ethyl	0.31	U	ng/L	P432051	

Field ID: G2NE1222 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421485	EPA 8270E	Pyridaben	1.5	U	ng/L	P432051	
		Pyriproxyfen	0.26	U	ng/L	P432051	
		Simazine	5.7		ng/L	P432051	
		Stirophos	0.42	U	ng/L	P432051	
		Sulfentrazone	1.5	U	ng/L	P432051	
		Tebuconazole	1.5	U	ng/L	P432051	
		Terbufos	0.21	U	ng/L	P432051	
		Terbuthylazine	0.21	U	ng/L	P432051	
		Thiobencarb	0.52	U	ng/L	P432051	
		Triadimefon	0.16	U	ng/L	P432051	

Ref. Method and Comment:
EPA 8270E: Estimated value for azoxystrobin due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Mill BR at Old San Mateo Rd **Collection Date/Time: 07/05/2023 09:15**

Field ID: 20030577 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421618	EPA 8270E	Aldrin	0.67	U	ng/L	P432065	
		Alpha-BHC	0.10	U	ng/L	P432065	
		Alpha-Chlordane	0.20	U	ng/L	P432065	
		PCB-1016	2.0	U	ng/L	P432065	
		Beta-BHC	0.10	U	ng/L	P432065	RPD
		PCB-1221	2.0	U	ng/L	P432065	
		Beta-Cyfluthrin	1.3	U	ng/L	P432065	
		PCB-1232	2.0	U	ng/L	P432065	
		Bifenthrin	0.51	I	ng/L	P432065	
		PCB-1242	2.0	U	ng/L	P432065	
		Carbophenothion	0.92	U	ng/L	P432065	
		PCB-1248	2.0	U	ng/L	P432065	
		Chlorothalonil	3.7	U	ng/L	P432065	
		PCB-1254	2.0	U	ng/L	P432065	
		Cis-Nonachlor	0.20	U	ng/L	P432065	
		PCB-1260	2.0	U	ng/L	P432065	
		Cypermethrin	1.5	U	ng/L	P432065	
		Dacthal	0.15	UJ	ng/L	P432065	CCV, RPD
		DDD-p,p'	0.26	U	ng/L	P432065	
		DDE-p,p'	0.20	U	ng/L	P432065	
		DDT-p,p'	0.82	U	ng/L	P432065	
		Delta-BHC	0.41	U	ng/L	P432065	
		Deltamethrin	1.3	U	ng/L	P432065	
		Dichlobenil	0.26	U	ng/L	P432065	
		Dicofol	1.3	U	ng/L	P432065	
		Dieldrin	0.67	I	ng/L	P432065	
		Endosulfan I	0.41	U	ng/L	P432065	MS, RPD
		Endosulfan II	0.92	U	ng/L	P432065	
		Endosulfan Sulfate	0.31	U	ng/L	P432065	
		Endrin	0.92	U	ng/L	P432065	
		Endrin Aldehyde	0.77	U	ng/L	P432065	
		Endrin Ketone	0.41	U	ng/L	P432065	
		Esfenvalerate	0.77	U	ng/L	P432065	
		Ethalfluralin	0.15	U	ng/L	P432065	
		Fenpropathrin	0.26	U	ng/L	P432065	
		Gamma-BHC	0.13	U	ng/L	P432065	MS, RPD
		Gamma-Chlordane	0.32	I	ng/L	P432065	
		Heptachlor	0.20	U	ng/L	P432065	
		Heptachlor Epoxide	0.26	U	ng/L	P432065	
		Hexachlorobenzene**	1.0	U	ng/L	P432065	
		Kepone	14	U	ng/L	P432065	
		Lambda-Cyhalothrin	0.77	U	ng/L	P432065	
		Methoprene	0.77	U	ng/L	P432065	
		Methoxychlor	0.31	U	ng/L	P432065	

Field ID: 20030577 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421618	EPA 8270E	MGK-264	0.20	U	ng/L	P432065	RPD
		Mirex	0.36	U	ng/L	P432065	
		Oxychlordane	0.31	U	ng/L	P432065	
		Permethrin	1.6	U	ng/L	P432065	
		Phenothrin	0.92	U	ng/L	P432065	
		Piperonyl Butoxide	0.15	U	ng/L	P432065	
		Prallethrin	2.0	U	ng/L	P432065	
		Tau-Fluvalinate	0.26	U	ng/L	P432065	
		Tetramethrin	0.77	U	ng/L	P432065	
		Trans-Nonachlor	0.20	U	ng/L	P432065	
		Triclosan Methyl	0.15	U	ng/L	P432065	
		Trifluralin	0.20	U	ng/L	P432065	
	EPA 8276	Chlordane	3.9	I Q	ng/L	P432706	MS
		Toxaphene	73	Q	ng/L	P432706	
2421619	EPA 8270E	Oxybenzone**	10	U	ng/L	P432051	
		Acetochlor	0.21	U	ng/L	P432051	
		Octinoxate**	150	U	ng/L	P432051	
		Alachlor	0.41	U	ng/L	P432051	
		Avobenzone**	100	U	ng/L	P432051	
		Ametryn	1.1	U	ng/L	P432051	
		Atrazine	0.60	I	ng/L	P432051	
		PBDE-47**	4.1	U	ng/L	P432051	
		Atrazine Desethyl	1.3	U	ng/L	P432051	
		PBDE-99**	5.2	U	ng/L	P432051	
		Azinphos Methyl	3.1	U	ng/L	P432051	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P432051	
		Azoxystrobin	64	J	ng/L	P432051	
		Bromacil	0.62	U	ng/L	P432051	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P432051	
		Butylate	0.21	U	ng/L	P432051	
		Dechlorane Plus**	31	U	ng/L	P432051	
		Caffeine**	28	I	ng/L	P432051	MS
		Dechlorane 602**	5.2	U	ng/L	P432051	
		Carbophenothion	0.52	U	ng/L	P432051	
		Dechlorane 603**	4.1	U	ng/L	P432051	
		Carfentrazone Ethyl	0.15	U	ng/L	P432051	
		Hexabromobenzene**	6.2	U	ng/L	P432051	RPD
		Chlorfenapyr	0.31	U	ng/L	P432051	
		PBB-153**	8.2	U	ng/L	P432051	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P432051	
		Pentabromotoluene**	3.1	U	ng/L	P432051	
		Chlorpyrifos Methyl	0.10	U	ng/L	P432051	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P432051	
		Coumaphos	1.1	U	ng/L	P432051	

Field ID: 20030577 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421619	EPA 8270E	Tris(1-chloro-2-propyl) phosphate (TCPP)**	59		ng/L	P432051	
		Cyanazine	5.2	U	ng/L	P432051	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	5.3	I	ng/L	P432051	
		Cyprodinil	0.54	I	ng/L	P432051	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P432051	
		Demeton	3.6	U	ng/L	P432051	
		Diazinon	0.13	U	ng/L	P432051	RPD
		Difenoconazole	4.6		ng/L	P432051	
		Dimethenamid	0.10	U	ng/L	P432051	
		Dimethomorph	0.31	U	ng/L	P432051	MS
		Disulfoton	0.62	U	ng/L	P432051	
		Dithiopyr	1.0	U	ng/L	P432051	RPD
		EPTC	0.52	U	ng/L	P432051	
		Ethion	0.31	U	ng/L	P432051	
		Ethoprop	2.6		ng/L	P432051	
		Etridiazole	0.10	U	ng/L	P432051	
		Fenamiphos	0.46	U	ng/L	P432051	
		Fenbuconazole	0.52	UJ	ng/L	P432051	LCS
		Fipronil	3.5		ng/L	P432051	
		Fipronil Desulfinyl**	1.2		ng/L	P432051	
		Fipronil Sulfide	7.7		ng/L	P432051	
		Fipronil Sulfone	18		ng/L	P432051	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P432051	LCS, MS
		Fludioxonil	7.8		ng/L	P432051	
		Flumioxazin	3.1	U	ng/L	P432051	
		Flutolanil	2.2		ng/L	P432051	
		Fluxapyroxad	18		ng/L	P432051	
		Fonofos	0.15	U	ng/L	P432051	RPD
		Hexazinone	3.4		ng/L	P432051	
		Imazalil	0.67	U	ng/L	P432051	
		Iprodione	0.52	U	ng/L	P432051	
		Loratadine**	0.31	U	ng/L	P432051	
		Malathion	0.36	U	ng/L	P432051	
		Metalaxyl	5.6		ng/L	P432051	
		Metolachlor	130		ng/L	P432051	
		Metribuzin	15		ng/L	P432051	
		Mevinphos	1.0	U	ng/L	P432051	
		Molinate	0.26	U	ng/L	P432051	
		Myclobutanil	0.36	U	ng/L	P432051	
		Naled	2.6	U	ng/L	P432051	
		Napropamide	11		ng/L	P432051	
		Norflurazon	1.0	U	ng/L	P432051	
		Oxadiazon	0.46	I	ng/L	P432051	
		Oxyfluorfen	0.21	U	ng/L	P432051	

Field ID: 20030577 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421619	EPA 8270E	Parathion Ethyl	0.15	U	ng/L	P432051	
		Parathion Methyl	0.21	U	ng/L	P432051	
		Pendimethalin	0.77	U	ng/L	P432051	
		Phenytoin**	5.5	U	ng/L	P432051	
		Phorate	0.26	U	ng/L	P432051	
		Prodiamine	0.21	U	ng/L	P432051	MS
		Prometon	3.1	U	ng/L	P432051	
		Prometryn	0.36	U	ng/L	P432051	
		Pronamide	0.10	U	ng/L	P432051	
		Propanil	0.10	U	ng/L	P432051	
		Propargite	0.82	U	ng/L	P432051	
		Propiconazole	17		ng/L	P432051	
		Pyraflufen Ethyl	0.31	U	ng/L	P432051	
		Pyridaben	1.4	U	ng/L	P432051	
		Pyriproxyfen	0.26	U	ng/L	P432051	
		Simazine	0.26	U	ng/L	P432051	
		Stirophos	0.41	U	ng/L	P432051	
		Sulfentrazone	1.4	U	ng/L	P432051	
		Tebuconazole	1.4	U	ng/L	P432051	
		Terbufos	0.21	U	ng/L	P432051	
		Terbuthylazine	0.21	U	ng/L	P432051	
		Thiobencarb	0.52	U	ng/L	P432051	
		Triadimefon	0.15	U	ng/L	P432051	

Ref. Method and Comment:
EPA 8270E: MS accuracy for dieldrin not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Sample expired for preparation due to need for re-extraction.
EPA 8270E: Estimated value for azoxystrobin due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB **Collection Date/Time: 07/05/2023 09:30**

Field ID: FB_07052023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421620	EPA 8270E	Aldrin	0.67	U	ng/L	P432065	
		Alpha-BHC	0.10	U	ng/L	P432065	
		Alpha-Chlordane	0.21	U	ng/L	P432065	
		PCB-1016	2.1	U	ng/L	P432065	
		Beta-BHC	0.33	I	ng/L	P432065	RPD
		PCB-1221	2.1	U	ng/L	P432065	
		Beta-Cyfluthrin	1.3	U	ng/L	P432065	
		PCB-1232	2.1	U	ng/L	P432065	
		Bifenthrin	0.51	U	ng/L	P432065	
		PCB-1242	2.1	U	ng/L	P432065	
		PCB-1248	2.1	U	ng/L	P432065	
		Chlorothalonil	3.7	U	ng/L	P432065	
		PCB-1254	2.1	U	ng/L	P432065	
		Cis-Nonachlor	0.21	U	ng/L	P432065	
		PCB-1260	2.1	U	ng/L	P432065	
		Cypermethrin	1.5	U	ng/L	P432065	
		Dacthal	0.15	UJ	ng/L	P432065	CCV, RPD
		DDD-p,p'	0.26	U	ng/L	P432065	
		DDE-p,p'	0.21	U	ng/L	P432065	
		DDT-p,p'	0.82	U	ng/L	P432065	
		Delta-BHC	0.41	U	ng/L	P432065	
		Deltamethrin	1.3	U	ng/L	P432065	
		Dichlobenil	0.26	U	ng/L	P432065	
		Dicofol	1.3	U	ng/L	P432065	
		Dieldrin	0.41	U	ng/L	P432065	
		Endosulfan I	0.41	U	ng/L	P432065	MS, RPD
		Endosulfan II	0.92	U	ng/L	P432065	
		Endosulfan Sulfate	0.31	U	ng/L	P432065	
		Endrin	0.92	U	ng/L	P432065	
		Endrin Aldehyde	0.77	U	ng/L	P432065	
		Endrin Ketone	0.41	U	ng/L	P432065	
		Esfenvalerate	0.77	U	ng/L	P432065	
		Ethalfluralin	0.15	U	ng/L	P432065	
		Fenpropathrin	0.26	U	ng/L	P432065	
		Gamma-BHC	0.13	U	ng/L	P432065	MS, RPD
		Gamma-Chlordane	0.21	U	ng/L	P432065	
		Heptachlor	0.21	U	ng/L	P432065	
		Heptachlor Epoxide	0.26	U	ng/L	P432065	
		Hexachlorobenzene**	1.0	U	ng/L	P432065	
		Kepone	14	U	ng/L	P432065	
		Lambda-Cyhalothrin	0.77	U	ng/L	P432065	
		Methoprene	0.77	U	ng/L	P432065	
		Methoxychlor	0.31	U	ng/L	P432065	
		MGK-264	0.21	U	ng/L	P432065	RPD

Field ID: FB_07052023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421620	EPA 8270E	Mirex	0.36	U	ng/L	P432065	
		Oxychlordane	0.31	U	ng/L	P432065	
		Permethrin	1.6	U	ng/L	P432065	
		Phenothrin	0.92	U	ng/L	P432065	
		Piperonyl Butoxide	0.15	U	ng/L	P432065	
		Prallethrin	2.1	U	ng/L	P432065	
		Tau-Fluvalinate	0.26	U	ng/L	P432065	
		Tetramethrin	0.77	U	ng/L	P432065	
		Trans-Nonachlor	0.21	U	ng/L	P432065	
		Triclosan Methyl	0.15	U	ng/L	P432065	
		Trifluralin	0.21	U	ng/L	P432065	
	EPA 8276	Chlordane	2.0	UQ	ng/L	P432706	MS
		Toxaphene	15	UQ	ng/L	P432706	
2421621	EPA 8270E	Oxybenzone**	10	U	ng/L	P432051	
		Acetochlor	0.20	U	ng/L	P432051	
		Octinoxate**	150	U	ng/L	P432051	
		Alachlor	0.41	U	ng/L	P432051	
		Avobenzone**	100	U	ng/L	P432051	
		Ametryn	1.1	U	ng/L	P432051	
		Atrazine	0.20	U	ng/L	P432051	
		PBDE-47**	4.1	U	ng/L	P432051	
		Atrazine Desethyl	1.3	U	ng/L	P432051	
		PBDE-99**	5.1	U	ng/L	P432051	
		Azinphos Methyl	3.1	U	ng/L	P432051	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P432051	
		Azoxystrobin	0.41	U	ng/L	P432051	
		Bromacil	0.61	U	ng/L	P432051	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P432051	
		Butylate	0.20	U	ng/L	P432051	
		Dechlorane Plus**	31	U	ng/L	P432051	
		Caffeine**	7.7	U	ng/L	P432051	MS
		Dechlorane 602**	5.1	U	ng/L	P432051	
		Carbophenothion	0.51	U	ng/L	P432051	
		Dechlorane 603**	4.1	U	ng/L	P432051	
		Carfentrazone Ethyl	0.15	U	ng/L	P432051	
		Hexabromobenzene**	6.1	U	ng/L	P432051	RPD
		Chlorfenapyr	0.31	U	ng/L	P432051	
		PBB-153**	8.2	U	ng/L	P432051	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P432051	
		Pentabromotoluene**	3.1	U	ng/L	P432051	
		Chlorpyrifos Methyl	0.10	U	ng/L	P432051	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P432051	
		Coumaphos	1.1	U	ng/L	P432051	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P432051	

Field ID: FB_07052023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421621	EPA 8270E	Cyanazine	5.1	U	ng/L	P432051	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P432051	
		Cyprodinil	0.20	U	ng/L	P432051	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P432051	
		Demeton	3.6	U	ng/L	P432051	
		Diazinon	0.13	U	ng/L	P432051	RPD
		Difenoconazole	0.61	U	ng/L	P432051	
		Dimethenamid	0.10	U	ng/L	P432051	
		Dimethomorph	0.31	U	ng/L	P432051	MS
		Disulfoton	0.61	U	ng/L	P432051	
		Dithiopyr	1.0	U	ng/L	P432051	RPD
		EPTC	0.51	U	ng/L	P432051	
		Ethion	0.31	U	ng/L	P432051	
		Ethoprop	0.13	U	ng/L	P432051	
		Etridiazole	0.10	U	ng/L	P432051	
		Fenamiphos	0.46	U	ng/L	P432051	
		Fenbuconazole	0.51	UJ	ng/L	P432051	LCS
		Fipronil	0.20	U	ng/L	P432051	
		Fipronil Desulfinyl**	0.10	U	ng/L	P432051	
		Fipronil Sulfide	0.10	U	ng/L	P432051	
		Fipronil Sulfone	0.10	U	ng/L	P432051	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P432051	LCS, MS
		Fludioxonil	0.10	U	ng/L	P432051	
		Flumioxazin	3.1	U	ng/L	P432051	
		Flutolanil	0.10	U	ng/L	P432051	
		Fluxapyroxad	0.26	U	ng/L	P432051	
		Fonofos	0.15	U	ng/L	P432051	RPD
		Hexazinone	0.51	U	ng/L	P432051	
		Imazalil	0.66	U	ng/L	P432051	
		Iprodione	0.51	U	ng/L	P432051	
		Loratadine**	0.31	U	ng/L	P432051	
		Malathion	0.36	U	ng/L	P432051	
		Metalaxyl	0.51	U	ng/L	P432051	
		Metolachlor	0.77	U	ng/L	P432051	
		Metribuzin	0.41	U	ng/L	P432051	
		Mevinphos	1.0	U	ng/L	P432051	
		Molinate	0.26	U	ng/L	P432051	
		Myclobutanil	0.36	U	ng/L	P432051	
		Naled	2.6	U	ng/L	P432051	
		Napropamide	0.72	U	ng/L	P432051	
		Norflurazon	1.0	U	ng/L	P432051	
		Oxadiazon	0.36	U	ng/L	P432051	
		Oxyfluorfen	0.20	U	ng/L	P432051	
		Parathion Ethyl	0.15	U	ng/L	P432051	

Field ID: FB_07052023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421621	EPA 8270E	Parathion Methyl	0.20	U	ng/L	P432051	
		Pendimethalin	0.77	U	ng/L	P432051	
		Phenytoin**	5.4	U	ng/L	P432051	
		Phorate	0.26	U	ng/L	P432051	
		Prodiamine	0.20	U	ng/L	P432051	MS
		Prometon	3.1	U	ng/L	P432051	
		Prometryn	0.36	U	ng/L	P432051	
		Pronamide	0.10	U	ng/L	P432051	
		Propanil	0.10	U	ng/L	P432051	
		Propargite	0.82	U	ng/L	P432051	
		Propiconazole	0.61	U	ng/L	P432051	
		Pyraflufen Ethyl	0.31	U	ng/L	P432051	
		Pyridaben	1.4	U	ng/L	P432051	
		Pyriproxyfen	0.26	U	ng/L	P432051	
		Simazine	0.26	U	ng/L	P432051	
		Stirophos	0.41	U	ng/L	P432051	
		Sulfentrazone	1.4	U	ng/L	P432051	
		Tebuconazole	1.4	U	ng/L	P432051	
		Terbufos	0.20	U	ng/L	P432051	
		Terbuthylazine	0.20	U	ng/L	P432051	
		Thiobencarb	0.51	U	ng/L	P432051	
		Triadimefon	0.15	U	ng/L	P432051	

Ref. Method and Comment:
EPA 8270E: MS accuracy for dieldrin not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Sample expired for preparation due to need for re-extraction.
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: P432118

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432131

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432317

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432320

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432182

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432145

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432239

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432190

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

Reference Method: EPA 8270E
Batch ID: P432051

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	0.20	U	ng/L
Acetochlor	0.20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	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	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	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	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E
Batch ID: P432065

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432065

Component	Result	Code	Units
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	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'	0.80	U	ng/L
DDT-p,p'	0.80	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	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432065

Component	Result	Code	Units
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Kepone	14	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
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 8276
Batch ID: P432706

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P432706

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

Reference Method: EPA 8321B
Batch ID: P432171

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: P432281

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: P432220

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P432220

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

Reference Method: SM 2540 C-2015
Batch ID: P432425

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P432324

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P432224

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P432215

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: P432118

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432131

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432317

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432320

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432182

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432145

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432239

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432190

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

Reference Method: EPA 8270E
Batch ID: P432051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.2		P	42 - 162
Acetochlor	88.0		P	69 - 123
Alachlor	67.3		P	65 - 118
Ametryn	140		P	58 - 141

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	89.2		P	73 - 118
Atrazine Desethyl	79.6		P	32 - 125
Avobenzone	92.9		P	40 - 203
Azinphos Methyl	85.4		P	36 - 197
Azoxystrobin	67.5		P	58 - 226
Bromacil	88.2		P	48 - 120
Butylate	49.4		P	27 - 85.0
Caffeine	103		P	40 - 137
Carbophenothion	96.9		P	54 - 132
Carfentrazone Ethyl	108		P	60 - 142
Chlorfenapyr	68.2		P	53 - 117
Chlorpyrifos Ethyl	82.3		P	59 - 116
Chlorpyrifos Methyl	83.8		P	66 - 119
Coumaphos	71.3		P	11 - 234
Cyanazine	120		P	61 - 248
Cyprodinil	65.6		P	50 - 147
Dechlorane 602	78.0		P	50 - 150
Dechlorane 603	94.1		P	50 - 150
Dechlorane Plus	91.9		P	47 - 182
Demeton	61.0		P	30 - 138
Diazinon	98.1		P	67 - 126
Difenoconazole	56.2		P	38 - 205
Dimethenamid	77.8		P	57 - 111
Dimethomorph	105		P	16 - 212
Disulfoton	95.0		P	46 - 126
Dithiopyr	92.4		P	62 - 115
EPTC	46.9		P	28 - 80.0
Ethion	88.4		P	24 - 122
Ethoprop	81.7		P	62 - 113
Etridiazole	62.7		P	28 - 92.0
Fenamiphos	78.4		P	57 - 128
Fenbuconazole	35.6		F	52 - 155
Fipronil	109		P	63 - 130
Fipronil Desulfinyl	91.7		P	61 - 130
Fipronil Sulfide	91.5		P	56 - 117
Fipronil Sulfone	98.2		P	52 - 118
Fluazifop-P-butyl	51.9		F	61 - 128
Fludioxonil	67.7		P	59 - 129
Flumioxazin	110		P	30 - 250
Flutolanil	67.0		P	53 - 127
Fluxapyroxad	91.7		P	42 - 132
Fonofos	75.3		P	61 - 110
Hexabromobenzene	92.0		P	50 - 150
Hexazinone	89.2		P	46 - 139
Imazalil	69.8		P	40 - 139
Iprodione	108		P	40 - 146
Loratadine	105		P	10 - 224
Malathion	125		P	61 - 135
Metalaxyl	97.7		P	58 - 121
Metolachlor	108		P	64 - 118
Metribuzin	82.2		P	45 - 245
Mevinphos	78.7		P	49 - 118

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	56.0		P	42 - 92.0
Myclobutanil	85.7		P	55 - 127
Naled	27.6		P	10 - 114
Napropamide	88.8		P	39 - 121
Norflurazon	81.4		P	55 - 129
Octinoxate	93.3		P	26 - 166
Oxadiazon	82.0		P	54 - 115
Oxybenzone	95.8		P	49 - 135
Oxyfluorfen	101		P	64 - 139
Parathion Ethyl	86.5		P	70 - 111
Parathion Methyl	99.7		P	76 - 136
PBB-153	94.6		P	50 - 150
PBDE-47	94.2		P	41 - 148
PBDE-99	81.2		P	38 - 147
Pendimethalin	104		P	52 - 118
Pentabromotoluene	80.6		P	50 - 150
Phenytoin	63.1		P	10 - 162
Phorate	65.7		P	40 - 122
Prodiamine	37.3		P	26 - 141
Prometon	74.3		P	54 - 122
Prometryn	71.5		P	61 - 128
Pronamide	100		P	72 - 121
Propanil	112		P	45 - 144
Propargite	97.3		P	10 - 199
Propiconazole	72.4		P	56 - 127
Pyraflufen Ethyl	98.0		P	56 - 140
Pyridaben	67.1		P	26 - 211
Pyriproxyfen	73.2		P	33 - 194
Simazine	71.9		P	67 - 121
Stirophos	121		P	20 - 142
Sulfentrazone	75.6		P	21 - 144
Tebuconazole	79.7		P	10 - 122
Terbufos	95.2		P	60 - 129
Terbuthylazine	81.6		P	69 - 113
Tetradecachloro-m-terphenyl	113		P	70 - 200
Thiobencarb	89.4		P	51 - 120
Tri-o-cresyl Phosphate	95.4		P	49 - 150
Triadimefon	93.7		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	102		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	89.3		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	98.7		P	70 - 180

Reference Method: EPA 8270E
Batch ID: P432065

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.6		P	30 - 96.0
Alpha-BHC	82.7		P	70 - 109
Alpha-Chlordane	46.7		P	45 - 107
Beta-BHC	80.1		P	64 - 138
Beta-Cyfluthrin	57.2		P	17 - 141
Bifenthrin	61.2		P	10 - 113

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P432065

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbophenothion	51.5		P	24 - 91.0
Chlorothalonil	97.5		P	26 - 180
Cis-Nonachlor	95.0		P	37 - 102
Cypermethrin	51.1		P	20 - 133
Dacthal	94.8		P	69 - 114
DDD-p,p'	47.5		P	42 - 105
DDE-p,p'	49.6		P	42 - 106
DDT-p,p'	72.0		P	42 - 107
Delta-BHC	67.3		P	67 - 144
Deltamethrin	55.7		P	15 - 149
Dichlobenil	67.6		P	46 - 117
Dicofol	78.2		P	34 - 114
Dieldrin	88.5		P	50 - 108
Endosulfan I	64.5		P	55 - 104
Endosulfan II	53.1		P	51 - 111
Endosulfan Sulfate	67.9		P	56 - 121
Endrin	81.5		P	10 - 106
Endrin Aldehyde	71.9		P	34 - 114
Endrin Ketone	73.0		P	63 - 177
Esfenvalerate	53.4		P	29 - 143
Ethalfluralin	54.3		P	46 - 96.0
Fenpropathrin	82.4		P	28 - 115
Gamma-BHC	85.0		P	65 - 121
Gamma-Chlordane	48.6		P	39 - 103
Heptachlor	81.2		P	39 - 94.0
Heptachlor Epoxide	56.2		P	54 - 104
Hexachlorobenzene	71.9		P	36 - 100
Kepone	73.3		P	10 - 225
Lambda-Cyhalothrin	41.0		P	10 - 135
Methoprene	36.0		P	10 - 109
Methoxychlor	75.2		P	52 - 112
MGK-264	79.9		P	44 - 117
Mirex	58.0		P	20 - 90.0
Oxychlordane	44.3		P	44 - 102
PCB-1016	76.7		P	45 - 107
PCB-1260	71.1		P	40 - 118
Permethrin	52.4		P	18 - 135
Phenothrin	56.6		P	10 - 102
Piperonyl Butoxide	84.8		P	28 - 156
Prallethrin	65.1		P	28 - 113
Tau-Fluvalinate	51.6		P	10 - 123
Tetramethrin	75.6		P	18 - 158
Trans-Nonachlor	78.6		P	39 - 104
Triclosan Methyl	64.9		P	54 - 108
Trifluralin	70.3		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P432706

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.7		P	52 - 117
Toxaphene	88.8		P	44 - 125

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P432171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.9		P	40 - 150
2,4,5-T	93.6		P	40 - 150
Acetaminophen	83.5		P	30 - 150
Acetamiprid	75.4		P	40 - 150
Afidopyropen	57.1		P	30 - 150
Bentazon	124		P	30 - 150
Benzovindiflupyr	87.1		P	40 - 150
Carbamazepine	77.9		P	40 - 150
Clothianidin	88.6		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	43.2		P	40 - 150
Fenuron	90.9		P	40 - 150
Fluridone	93.2		P	40 - 150
Hydrocodone	76.8		P	40 - 150
Ibuprofen	93.2		P	40 - 150
Imazapyr	85.7		P	40 - 150
Imidacloprid	89.2		P	40 - 150
Linuron	78.6		P	40 - 150
Mandestrobin	77.9		P	40 - 150
MCPP	104		P	40 - 150
Naproxen	85.2		P	40 - 150
Primidone	82.8		P	40 - 150
Pyraclostrobin	83.9		P	40 - 150
Silvex	108		P	40 - 150
Thiamethoxam	87.7		P	40 - 150
Tolfenpyrad	60.2		P	30 - 150
Triclopyr	96.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432281

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	105		P	40 - 150
AMPA	80.7		P	40 - 150
Endothall	71.5		P	40 - 150
Glufosinate	119		P	40 - 150
Glyphosate	125		P	40 - 150
Sucralose	89.4		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P432220

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.4		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P432425

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.5		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P432324

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	89.7		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P432224

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432215

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.9		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421280	Chloride	102		P	90 - 110
2421515	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421280	Sulfate	98.9		P	90 - 110
2421515	Sulfate	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432182

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421518	Ammonia-N	98.6	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432239

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421459	NO2NO3-N	99.5	98.5	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P432051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421091	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	61.4	85.1	P/P	26 - 165
2421091	Acetochlor	72.2	93.2	P/P	67 - 124
2421091	Alachlor	67.0	75.2	P/P	60 - 120
2421091	Ametryn	98.1	110	P/P	54 - 216
2421091	Atrazine	83.4	100	P/P	66 - 128
2421091	Atrazine Desethyl	84.8	88.1	P/P	15 - 122
2421091	Avobenzone	131	126	P/P	37 - 178
2421091	Azinphos Methyl	109	102	P/P	40 - 292
2421091	Azoxystrobin	114	105	P/P	35 - 220
2421091	Bromacil	93.1	113	P/P	45 - 127
2421091	Butylate	45.9	53.1	P/P	20 - 83.0
2421091	Caffeine	246	152	F/P	10 - 194
2421091	Carbophenothion	90.2	102	P/P	57 - 127
2421091	Carfentrazone Ethyl	101	114	P/P	51 - 141
2421091	Chlorfenapyr	54.7	67.7	P/P	46 - 111
2421091	Chlorpyrifos Ethyl	62.7	62.3	P/P	52 - 120
2421091	Chlorpyrifos Methyl	69.4	82.8	P/P	63 - 119
2421091	Coumaphos	104	115	P/P	10 - 228
2421091	Cyanazine	111	119	P/P	59 - 241
2421091	Cyprodinil	56.9	67.1	P/P	47 - 146
2421091	Dechlorane 602	60.4	58.4	P/P	50 - 150
2421091	Dechlorane 603	98.5	105	P/P	50 - 150
2421091	Dechlorane Plus	73.7	69.8	P/P	50 - 150
2421091	Demeton	76.2	77.6	P/P	40 - 136
2421091	Diazinon	70.2	109	P/P	69 - 132
2421091	Difenoconazole	97.1	100	P/P	57 - 258

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421091	Dimethenamid	55.2	64.1	P/P	54 - 110
2421091	Dimethomorph	211	197	F/P	28 - 210
2421091	Disulfoton	77.2	95.3	P/P	43 - 133
2421091	Dithiopyr	70.2	92.8	P/P	39 - 116
2421091	EPTC	41.3	47.4	P/P	20 - 78.0
2421091	Ethion	40.1	30.9	P/P	17 - 119
2421091	Ethoprop	94.1	93.0	P/P	66 - 120
2421091	Etridiazole	62.7	65.4	P/P	28 - 96.0
2421091	Fenamiphos	116	113	P/P	41 - 126
2421091	Fenbuconazole	69.0	68.1	P/P	42 - 169
2421091	Fipronil	81.3	109	P/P	61 - 132
2421091	Fipronil Desulfinyl	77.7	101	P/P	56 - 132
2421091	Fipronil Sulfide	68.9	89.5	P/P	48 - 119
2421091	Fipronil Sulfone	83.5	114	P/P	42 - 131
2421091	Fluazifop-P-butyl	44.7	57.2	F/P	53 - 131
2421091	Fludioxonil	61.2	68.0	P/P	56 - 127
2421091	Flumioxazin	163	125	P/P	19 - 300
2421091	Flutolanil	52.4	52.5	P/P	41 - 127
2421091	Fluxapyroxad	77.1	64.5	P/P	42 - 172
2421091	Fonofos	60.6	81.9	P/P	59 - 113
2421091	Hexabromobenzene	51.3	111	P/P	50 - 150
2421091	Hexazinone	77.0	78.4	P/P	66 - 122
2421091	Imazalil	78.7	72.8	P/P	21 - 283
2421091	Iprodione	90.2	93.6	P/P	43 - 150
2421091	Loratadine	200	201	P/P	23 - 201
2421091	Malathion	106	125	P/P	58 - 136
2421091	Metalaxyl	88.5	97.5	P/P	55 - 120
2421091	Metolachlor	107	94.6	P/P	57 - 121
2421091	Metribuzin	79.3	93.0	P/P	58 - 294
2421091	Mevinphos	102	111	P/P	50 - 126
2421091	Molinate	58.6	66.4	P/P	42 - 93.0
2421091	Myclobutanil	81.6	88.1	P/P	55 - 125
2421091	Naled	24.3	30.9	P/P	18 - 200
2421091	Napropamide	51.5	40.9	P/P	39 - 110
2421091	Norflurazon	81.8	92.3	P/P	48 - 128
2421091	Octinoxate	98.2	107	P/P	21 - 159
2421091	Oxadiazon	73.8	79.9	P/P	43 - 112
2421091	Oxybenzone	91.1	104	P/P	41 - 142
2421091	Oxyfluorfen	101	106	P/P	64 - 153
2421091	Parathion Ethyl	83.2	84.6	P/P	69 - 114
2421091	Parathion Methyl	109	128	P/P	79 - 139
2421091	PBB-153	78.1	102	P/P	50 - 150
2421091	PBDE-47	79.0	89.6	P/P	27 - 144
2421091	PBDE-99	61.1	76.8	P/P	18 - 150
2421091	Pendimethalin	95.3	102	P/P	50 - 139
2421091	Pentabromotoluene	76.3	96.1	P/P	50 - 150
2421091	Phenytoin	22.3	18.3	P/P	10 - 146
2421091	Phorate	83.9	85.8	P/P	54 - 161
2421091	Prodiamine	28.0	32.2	F/P	30 - 161
2421091	Prometon	72.6	74.4	P/P	45 - 134
2421091	Prometryn	61.0	74.6	P/P	45 - 137
2421091	Pronamide	94.0	108	P/P	65 - 133

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421091	Propanil	93.2	120	P/P	49 - 142
2421091	Propargite	44.5	37.3	P/P	10 - 203
2421091	Propiconazole	68.9	76.8	P/P	38 - 146
2421091	Pyraflufen Ethyl	92.1	95.9	P/P	34 - 153
2421091	Pyridaben	73.6	66.0	P/P	12 - 192
2421091	Pyriproxyfen	67.9	53.1	P/P	33 - 180
2421091	Simazine	64.7	73.8	P/P	51 - 157
2421091	Stirophos	22.5	42.1	P/P	10 - 128
2421091	Sulfentrazone	91.7	93.6	P/P	53 - 186
2421091	Tebuconazole	41.1	34.1	P/P	10 - 133
2421091	Terbufos	93.9	108	P/P	65 - 139
2421091	Terbuthylazine	68.2	90.9	P/P	66 - 117
2421091	Tetradecachloro-m-terphenyl	108	128	P/P	70 - 200
2421091	Thiobencarb	64.7	78.5	P/P	51 - 119
2421091	Tri-o-cresyl Phosphate	94.6	102	P/P	31 - 144
2421091	Triadimefon	81.1	80.8	P/P	48 - 119
2421091	Tris(1-chloro-2-propyl) phosphate (TCPP)	81.0	80.7	P/P	50 - 150
2421091	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.8	96.8	P/P	50 - 150
2421091	Tris(2-chloroethyl) phosphate (TCEP)	84.5	98.7	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P432065

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422038	Aldrin	48.3	52.8	P/P	24 - 81.0
2422038	Alpha-BHC	73.5	88.4	P/P	65 - 110
2422038	Alpha-Chlordane	77.0	76.1	P/P	43 - 119
2422038	Beta-BHC	61.3	110	P/P	54 - 165
2422038	Beta-Cyfluthrin	40.2	43.7	P/P	27 - 165
2422038	Bifenthrin	45.9	51.5	P/P	17 - 117
2422038	Carbophenothion	62.7	64.6	P/P	21 - 108
2422038	Chlorothalonil	70.7	68.0	P/P	10 - 255
2422038	Cis-Nonachlor	56.4	63.2	P/P	34 - 98.0
2422038	Cypermethrin	46.1	50.6	P/P	25 - 143
2422038	Dacthal	77.2	114	P/P	55 - 139
2422038	DDD-p,p'	54.8	51.1	P/P	30 - 109
2422038	DDE-p,p'	54.0	44.2	P/P	35 - 106
2422038	DDT-p,p'	60.1	66.1	P/P	41 - 101
2422038	Delta-BHC	78.3	97.1	P/P	58 - 165
2422038	Deltamethrin	47.3	53.4	P/P	10 - 194
2422038	Dichlobenil	50.1	63.7	P/P	22 - 114
2422038	Dicofol	67.5	93.4	P/P	17 - 133
2422038	Endosulfan I	71.1	125	P/F	49 - 104
2422038	Endosulfan II	60.2	54.4	P/P	37 - 117
2422038	Endosulfan Sulfate	61.0	68.4	P/P	38 - 128
2422038	Endrin	56.7	57.8	P/P	35 - 116
2422038	Endrin Aldehyde	63.1	52.9	P/P	19 - 108
2422038	Endrin Ketone	76.2	60.2	P/P	44 - 134
2422038	Esfenvalerate	58.3	56.8	P/P	27 - 176
2422038	Ethalfluralin	65.7	55.5	P/P	49 - 100
2422038	Fenpropathrin	56.9	62.7	P/P	34 - 117
2422038	Gamma-BHC	96.0	143	P/F	59 - 129

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432065

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422038	Gamma-Chlordane	60.9	68.3	P/P	33 - 107
2422038	Heptachlor	67.1	71.2	P/P	37 - 94.0
2422038	Heptachlor Epoxide	75.0	61.9	P/P	38 - 118
2422038	Hexachlorobenzene	72.8	91.8	P/P	35 - 97.0
2422038	Kepone	40.8	68.7	P/P	10 - 221
2422038	Lambda-Cyhalothrin	46.1	49.1	P/P	23 - 190
2422038	Methoprene	41.5	34.1	P/P	21 - 109
2422038	Methoxychlor	57.8	77.9	P/P	46 - 118
2422038	MGK-264	55.9	107	P/P	39 - 122
2422038	Mirex	39.0	40.0	P/P	25 - 90.0
2422038	Oxychlordane	64.9	68.5	P/P	42 - 100
2422038	Permethrin	46.0	41.2	P/P	33 - 181
2422038	Phenothrin	67.6	79.0	P/P	12 - 125
2422038	Piperonyl Butoxide	62.7	74.3	P/P	10 - 178
2422038	Prallethrin	67.3	68.6	P/P	24 - 122
2422038	Tau-Fluvalinate	53.5	54.6	P/P	13 - 151
2422038	Tetramethrin	71.9	77.1	P/P	16 - 172
2422038	Trans-Nonachlor	66.3	75.3	P/P	39 - 100
2422038	Triclosan Methyl	71.9	93.0	P/P	43 - 110
2422038	Trifluralin	63.4	67.4	P/P	45 - 94.0
2422046	PCB-1016	82.8	73.9	P/P	45 - 107
2422046	PCB-1260	82.4	66.7	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P432706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424521	Chlordane	34.7	36.3	F/F	43 - 123
2424521	Toxaphene	43.3	38.7	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P432171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421581	2,4-D	101	95.4	P/P	40 - 150
2421581	2,4,5-T	110	111	P/P	40 - 150
2421581	Acetaminophen	80.9	81.4	P/P	30 - 150
2421581	Acetamiprid	55.1	55.9	P/P	40 - 150
2421581	Afidopyropen	48.7	48.3	P/P	30 - 150
2421581	Bentazon	72.1	70.8	P/P	30 - 150
2421581	Benzovindiflupyr	79.5	86.5	P/P	40 - 150
2421581	Carbamazepine	57.0	55.6	P/P	40 - 150
2421581	Clothianidin	81.8	80.1	P/P	40 - 150
2421581	Dinotefuran	68.4	75.5	P/P	40 - 150
2421581	Diuron	40.3	53.7	P/P	40 - 150
2421581	Fenuron	61.8	61.6	P/P	40 - 150
2421581	Fluridone	86.7	83.6	P/P	40 - 150
2421581	Hydrocodone	53.2	55.4	P/P	40 - 150
2421581	Ibuprofen	69.1	75.2	P/P	40 - 150
2421581	Imazapyr	91.1	92.4	P/P	40 - 150
2421581	Imidacloprid	117	118	P/P	40 - 150
2421581	Linuron	58.8	66.9	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P432171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421581	Mandestrobin	74.4	75.2	P/P	40 - 150
2421581	MCPP	124	119	P/P	40 - 150
2421581	Naproxen	59.2	55.9	P/P	40 - 150
2421581	Primidone	76.5	78.3	P/P	40 - 150
2421581	Pyraclostrobin	78.5	79.0	P/P	40 - 150
2421581	Silvex	100	108	P/P	40 - 150
2421581	Thiamethoxam	67.3	59.9	P/P	40 - 150
2421581	Tolfenpyrad	51.7	53.1	P/P	30 - 150
2421581	Triclopyr	114	116	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432281

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421699	Acesulfame K	110	113	P/P	40 - 150
2421699	AMPA	136	124	P/P	40 - 150
2421699	Endothall	74.5	71.9	P/P	40 - 150
2421699	Glufosinate	124	143	P/P	40 - 150
2421699	Glyphosate	124	123	P/P	40 - 150
2421699	Sucralose	94.8	98.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P432224

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421625	Fluoride	100	100	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432215

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421317	Organic Carbon	95.1	96.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432118

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421394	Color (true)	6.27	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432131

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421312	Turbidity	4.04	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421280	Chloride	0.944	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432182

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421518	Ammonia-N	0.610	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432145

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421491	Kjeldahl Nitrogen	1.59	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432239

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421459	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421479	Total-P	1.12	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P432051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421091	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	32.4	Spike	P	0 - 37
2421091	Acetochlor	25.4	Spike	P	0 - 28

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P432051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421091	Alachlor	11.5	Spike	P	0 - 30
2421091	Ametryn	11.8	Spike	P	0 - 32
2421091	Atrazine	14.0	Spike	P	0 - 41
2421091	Atrazine Desethyl	3.83	Spike	P	0 - 36
2421091	Avobenzone	3.87	Spike	P	0 - 36
2421091	Azinphos Methyl	6.34	Spike	P	0 - 75
2421091	Azoxystrobin	8.21	Spike	P	0 - 39
2421091	Bromacil	19.2	Spike	P	0 - 33
2421091	Butylate	14.7	Spike	P	0 - 44
2421091	Caffeine	44.4	Spike	P	0 - 74
2421091	Carbophenothion	11.8	Spike	P	0 - 25
2421091	Carfentrazone Ethyl	12.2	Spike	P	0 - 27
2421091	Chlorfenapyr	21.3	Spike	P	0 - 24
2421091	Chlorpyrifos Ethyl	0.535	Spike	P	0 - 26
2421091	Chlorpyrifos Methyl	17.6	Spike	P	0 - 26
2421091	Coumaphos	9.88	Spike	P	0 - 28
2421091	Cyanazine	7.09	Spike	P	0 - 48
2421091	Cyprodinil	16.4	Spike	P	0 - 29
2421091	Dechlorane 602	3.24	Spike	P	0 - 30
2421091	Dechlorane 603	6.55	Spike	P	0 - 30
2421091	Dechlorane Plus	5.33	Spike	P	0 - 30
2421091	Demeton	1.80	Spike	P	0 - 33
2421091	Diazinon	43.3	Spike	F	0 - 29
2421091	Difenoconazole	2.87	Spike	P	0 - 34
2421091	Dimethenamid	14.8	Spike	P	0 - 39
2421091	Dimethomorph	6.91	Spike	P	0 - 51
2421091	Disulfoton	21.0	Spike	P	0 - 30
2421091	Dithiopyr	27.7	Spike	F	0 - 26
2421091	EPTC	13.8	Spike	P	0 - 43
2421091	Ethion	25.8	Spike	P	0 - 79
2421091	Ethoprop	1.13	Spike	P	0 - 29
2421091	Etridiazole	4.24	Spike	P	0 - 33
2421091	Fenamiphos	2.50	Spike	P	0 - 40
2421091	Fenbuconazole	1.26	Spike	P	0 - 74
2421091	Fipronil	28.8	Spike	P	0 - 29
2421091	Fipronil Desulfinyl	24.4	Spike	P	0 - 32
2421091	Fipronil Sulfide	22.3	Spike	P	0 - 30
2421091	Fipronil Sulfone	24.5	Spike	P	0 - 33
2421091	Fluazifop-P-butyl	24.5	Spike	P	0 - 38
2421091	Fludioxonil	10.5	Spike	P	0 - 29
2421091	Flumioxazin	26.1	Spike	P	0 - 51
2421091	Flutolanil	0.274	Spike	P	0 - 25
2421091	Fluxapyroxad	17.7	Spike	P	0 - 45
2421091	Fonofos	30.0	Spike	F	0 - 27
2421091	Hexabromobenzene	73.5	Spike	F	0 - 30
2421091	Hexazinone	1.77	Spike	P	0 - 30
2421091	Imazalil	7.86	Spike	P	0 - 100
2421091	Iprodione	3.78	Spike	P	0 - 33
2421091	Loratadine	0.109	Spike	P	0 - 56
2421091	Malathion	17.0	Spike	P	0 - 37
2421091	Metalaxyl	9.72	Spike	P	0 - 40

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P432051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421091	Metolachlor	11.9	Spike	P	0 - 29
2421091	Metribuzin	16.0	Spike	P	0 - 45
2421091	Mevinphos	8.83	Spike	P	0 - 29
2421091	Molinate	12.6	Spike	P	0 - 33
2421091	Myclobutanil	7.75	Spike	P	0 - 26
2421091	Naled	23.9	Spike	P	0 - 37
2421091	Napropamide	23.1	Spike	P	0 - 44
2421091	Norflurazon	12.0	Spike	P	0 - 30
2421091	Octinoxate	8.58	Spike	P	0 - 45
2421091	Oxadiazon	7.97	Spike	P	0 - 28
2421091	Oxybenzone	13.2	Spike	P	0 - 46
2421091	Oxyfluorfen	4.89	Spike	P	0 - 28
2421091	Parathion Ethyl	1.67	Spike	P	0 - 31
2421091	Parathion Methyl	15.8	Spike	P	0 - 29
2421091	PBB-153	26.9	Spike	P	0 - 30
2421091	PBDE-47	12.5	Spike	P	0 - 36
2421091	PBDE-99	22.7	Spike	P	0 - 40
2421091	Pendimethalin	6.39	Spike	P	0 - 33
2421091	Pentabromotoluene	23.1	Spike	P	0 - 30
2421091	Phenytoin	19.9	Spike	P	0 - 100
2421091	Phorate	2.24	Spike	P	0 - 36
2421091	Prodiamine	14.2	Spike	P	0 - 71
2421091	Prometon	2.52	Spike	P	0 - 36
2421091	Prometryn	20.0	Spike	P	0 - 28
2421091	Pronamide	14.0	Spike	P	0 - 24
2421091	Propanil	24.7	Spike	P	0 - 28
2421091	Propargite	17.4	Spike	P	0 - 43
2421091	Propiconazole	9.26	Spike	P	0 - 33
2421091	Pyraflufen Ethyl	4.03	Spike	P	0 - 29
2421091	Pyridaben	5.96	Spike	P	0 - 30
2421091	Pyriproxyfen	24.5	Spike	P	0 - 79
2421091	Simazine	13.1	Spike	P	0 - 29
2421091	Stirophos	60.7	Spike	P	0 - 61
2421091	Sulfentrazone	2.11	Spike	P	0 - 33
2421091	Tebuconazole	12.9	Spike	P	0 - 69
2421091	Terbufos	13.5	Spike	P	0 - 29
2421091	Terbuthylazine	28.5	Spike	P	0 - 32
2421091	Tetradecachloro-m-terphenyl	16.5	Spike	P	0 - 30
2421091	Thiobencarb	19.4	Spike	P	0 - 26
2421091	Tri-o-cresyl Phosphate	7.69	Spike	P	0 - 33
2421091	Triadimefon	0.380	Spike	P	0 - 28
2421091	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.399	Spike	P	0 - 30
2421091	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	6.41	Spike	P	0 - 30
2421091	Tris(2-chloroethyl) phosphate (TCEP)	15.5	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P432065

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422038	Aldrin	8.98	Spike	P	0 - 41

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P432065

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422038	Alpha-BHC	18.5	Spike	P	0 - 25
2422038	Alpha-Chlordane	1.21	Spike	P	0 - 32
2422038	Beta-BHC	56.9	Spike	F	0 - 33
2422038	Beta-Cyfluthrin	8.42	Spike	P	0 - 43
2422038	Bifenthrin	11.6	Spike	P	0 - 52
2422038	Carbophenothion	2.99	Spike	P	0 - 30
2422038	Chlorothalonil	3.89	Spike	P	0 - 82
2422038	Cis-Nonachlor	11.2	Spike	P	0 - 33
2422038	Cypermethrin	9.29	Spike	P	0 - 51
2422038	Dacthal	38.2	Spike	F	0 - 27
2422038	DDD-p,p'	6.99	Spike	P	0 - 39
2422038	DDE-p,p'	19.9	Spike	P	0 - 31
2422038	DDT-p,p'	9.50	Spike	P	0 - 29
2422038	Delta-BHC	21.4	Spike	P	0 - 35
2422038	Deltamethrin	12.2	Spike	P	0 - 100
2422038	Dichlobenil	24.0	Spike	P	0 - 40
2422038	Dicofol	32.1	Spike	P	0 - 37
2422038	Dieldrin	0.898	Spike	P	0 - 27
2422038	Endosulfan I	54.7	Spike	F	0 - 23
2422038	Endosulfan II	10.1	Spike	P	0 - 34
2422038	Endosulfan Sulfate	11.5	Spike	P	0 - 36
2422038	Endrin	1.97	Spike	P	0 - 45
2422038	Endrin Aldehyde	17.5	Spike	P	0 - 76
2422038	Endrin Ketone	23.4	Spike	P	0 - 43
2422038	Esfenvalerate	2.69	Spike	P	0 - 51
2422038	Ethalfluralin	16.9	Spike	P	0 - 22
2422038	Fenpropathrin	9.65	Spike	P	0 - 49
2422038	Gamma-BHC	39.2	Spike	F	0 - 28
2422038	Gamma-Chlordane	10.3	Spike	P	0 - 40
2422038	Heptachlor	5.93	Spike	P	0 - 29
2422038	Heptachlor Epoxide	8.62	Spike	P	0 - 33
2422038	Hexachlorobenzene	23.1	Spike	P	0 - 36
2422038	Kepone	51.0	Spike	P	0 - 85
2422038	Lambda-Cyhalothrin	6.39	Spike	P	0 - 55
2422038	Methoprene	19.5	Spike	P	0 - 53
2422038	Methoxychlor	29.6	Spike	P	0 - 50
2422038	MGK-264	63.0	Spike	F	0 - 43
2422038	Mirex	2.45	Spike	P	0 - 40
2422038	Oxychlordane	5.50	Spike	P	0 - 31
2422038	Permethrin	11.1	Spike	P	0 - 50
2422038	Phenothrin	15.5	Spike	P	0 - 58
2422038	Piperonyl Butoxide	17.1	Spike	P	0 - 100
2422038	Prallethrin	1.80	Spike	P	0 - 39
2422038	Tau-Fluvalinate	2.06	Spike	P	0 - 54
2422038	Tetramethrin	6.97	Spike	P	0 - 51
2422038	Trans-Nonachlor	12.8	Spike	P	0 - 39
2422038	Triclosan Methyl	25.6	Spike	P	0 - 31
2422038	Trifluralin	6.05	Spike	P	0 - 22
2422046	PCB-1016	11.4	Spike	P	0 - 25
2422046	PCB-1260	21.0	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P432706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424521	Chlordane	4.69	Spike	P	0 - 28
2424521	Toxaphene	8.93	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P432171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421581	2,4-D	5.43	Spike	P	0 - 30
2421581	2,4,5-T	1.01	Spike	P	0 - 30
2421581	Acetaminophen	0.607	Spike	P	0 - 30
2421581	Acetamiprid	1.38	Spike	P	0 - 30
2421581	Afidopyropen	0.710	Spike	P	0 - 30
2421581	Bentazon	1.87	Spike	P	0 - 30
2421581	Benzovindiflupyr	8.42	Spike	P	0 - 30
2421581	Carbamazepine	2.42	Spike	P	0 - 30
2421581	Clothianidin	2.11	Spike	P	0 - 30
2421581	Dinotefuran	9.88	Spike	P	0 - 30
2421581	Diuron	28.5	Spike	P	0 - 30
2421581	Fenuron	0.416	Spike	P	0 - 30
2421581	Fluridone	3.75	Spike	P	0 - 30
2421581	Hydrocodone	3.96	Spike	P	0 - 30
2421581	Ibuprofen	8.48	Spike	P	0 - 30
2421581	Imazapyr	1.37	Spike	P	0 - 30
2421581	Imidacloprid	0.336	Spike	P	0 - 30
2421581	Linuron	12.8	Spike	P	0 - 30
2421581	Mandestrobin	0.994	Spike	P	0 - 30
2421581	MCPP	4.20	Spike	P	0 - 30
2421581	Naproxen	5.72	Spike	P	0 - 30
2421581	Primidone	2.40	Spike	P	0 - 30
2421581	Pyraclostrobin	0.620	Spike	P	0 - 30
2421581	Silvex	7.16	Spike	P	0 - 30
2421581	Thiamethoxam	11.6	Spike	P	0 - 30
2421581	Tolfenpyrad	2.73	Spike	P	0 - 30
2421581	Triclopyr	1.63	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P432281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421699	Acesulfame K	3.03	Spike	P	0 - 30
2421699	AMPA	9.17	Spike	P	0 - 30
2421699	Endothall	3.45	Spike	P	0 - 30
2421699	Glufosinate	13.7	Spike	P	0 - 30
2421699	Glyphosate	0.793	Spike	P	0 - 30
2421699	Sucralose	3.42	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P432220

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421625	Total Alkalinity	1.33	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P432425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421478	TDS	0.690	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P432224

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421625	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432215

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421317	Organic Carbon	0.758	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2421485
Field Sample ID: G2NE1222

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	77.9	P	20 - 200
EPA 8270E	Simazine-d10	93.4	P	62 - 142
EPA 8270E	Terbufos-d10	96.2	P	58 - 132
EPA 8270E	Terphenyl-d14	88.8	P	52 - 137

Lab Sample ID: 2421486
Field Sample ID: 20030688

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	57.6	P	30 - 160
EPA 8321B	Diuron-d6	52.6	P	30 - 160
EPA 8321B	Endothall-d6	92.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.5	P	30 - 160
EPA 8321B	Primidone-d5	73.2	P	30 - 160
EPA 8321B	Sucralose-d6	115	P	30 - 160

Lab Sample ID: 2421618
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	111	P	37 - 129
EPA 8270E	Decachlorobiphenyl	76.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	59.4	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	68.3	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	58.3	P	28 - 102
EPA 8276	Decachlorobiphenyl	20.4	F	28 - 102
EPA 8276	PCNB	85.7	P	49 - 115
EPA 8276	PCNB	90.4	P	49 - 115

Lab Sample ID: 2421619
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	62.1	P	20 - 200
EPA 8270E	Simazine-d10	78.9	P	62 - 142
EPA 8270E	Terbufos-d10	86.1	P	58 - 132
EPA 8270E	Terphenyl-d14	89.4	P	52 - 137

Lab Sample ID: 2421620
Field Sample ID: FB_07052023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	99.7	P	37 - 129
EPA 8270E	Decachlorobiphenyl	37.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	61.3	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	79.4	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	46.9	P	28 - 102
EPA 8276	Decachlorobiphenyl	29.5	P	28 - 102
EPA 8276	PCNB	82.2	P	49 - 115

Quality Assurance Report
Surrogates

Lab Sample ID: 2421620
Field Sample ID: FB_07052023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	PCNB	81.4	P	49 - 115

Lab Sample ID: 2421621
Field Sample ID: FB_07052023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	61.8	P	20 - 200
EPA 8270E	Simazine-d10	71.4	P	62 - 142
EPA 8270E	Terbufos-d10	71.7	P	58 - 132
EPA 8270E	Terphenyl-d14	84.9	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A120193
Included Lab Sample IDs: 2421478

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A120201
Included Lab Sample IDs: 2421478

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A120229
Included Lab Sample IDs: 2421479

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A120247
Included Lab Sample IDs: 2421478

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	93.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A120247
Included Lab Sample IDs: 2421478

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

Reference Method: SM 5310 B-2011
Run ID: A120252
Included Lab Sample IDs: 2421479

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A120259
Included Lab Sample IDs: 2421479

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A120266
Included Lab Sample IDs: 2421479

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.3	99.0	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A120267
Included Lab Sample IDs: 2421479

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.5	100	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A120275
Included Lab Sample IDs: 2421485, 2421619, 2421621

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.9		P	80 - 120
Alachlor	86.9		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	95.2		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	98.4		P	80 - 120
Azoxystrobin	98.1		P	80 - 120
Bromacil	98.1		P	80 - 120
Butylate	99.3		P	80 - 120
Caffeine	97.9		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	90.4		P	80 - 120
Chlorpyrifos Ethyl	85.4		P	80 - 120
Chlorpyrifos Methyl	97.1		P	80 - 120
Coumaphos	100		P	80 - 120
Cyanazine	107		P	80 - 120
Cyprodinil	92.0		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	95.4		P	80 - 120
Dimethenamid	96.6		P	80 - 120
Dimethomorph	87.4		P	80 - 120
Disulfoton	110		P	80 - 120
Dithiopyr	97.9		P	80 - 120
EPTC	103		P	80 - 120
Ethion	96.9		P	80 - 120
Ethoprop	105		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	86.4		P	80 - 120
Fenbuconazole	84.7		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	82.2		P	80 - 120
Fludioxonil	88.4		P	80 - 120
Flumioxazin	105		P	80 - 120
Flutolanil	99.4		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	99.8		P	80 - 120
Hexazinone	98.6		P	80 - 120
Imazalil	95.2		P	80 - 120
Iprodione	96.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120275
Included Lab Sample IDs: 2421485, 2421619, 2421621

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	101		P	80 - 120
Malathion	93.7		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	98.8		P	80 - 120
Mevinphos	113		P	80 - 120
Molinate	91.3		P	80 - 120
Myclobutanil	88.5		P	80 - 120
Naled	86.7		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	101		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	99.0		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	112		P	80 - 120
Phenytoin	107		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	118		P	80 - 120
Prometon	98.8		P	80 - 120
Prometryn	90.2		P	80 - 120
Pronamide	95.8		P	80 - 120
Propanil	101		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	87.7		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	107		P	80 - 120
Pyriproxyfen	99.4		P	80 - 120
Simazine	81.9		P	80 - 120
Stirophos	99.3		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	84.3		P	80 - 120
Thiobencarb	98.1		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120277
Included Lab Sample IDs: 2421485, 2421619, 2421621

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.9		P	80 - 120
Avobenzone	99.8		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	97.9		P	80 - 120
Dechlorane Plus	100		P	80 - 120
Hexabromobenzene	100		P	80 - 120
Octinoxate	93.0		P	80 - 120
Oxybenzone	95.1		P	80 - 120
PBB-153	95.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120277
Included Lab Sample IDs: 2421485, 2421619, 2421621

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBDE-47	99.6		P	80 - 120
PBDE-99	100		P	80 - 120
Pentabromotoluene	98.3		P	80 - 120
Tetradecachloro-m-terphenyl	98.2		P	80 - 120
Tri-o-cresyl Phosphate	98.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	97.6		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	95.9		P	80 - 120

Reference Method: EPA 8321B
Run ID: A120279
Included Lab Sample IDs: 2421486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.3	89.4	P/P	50 - 150
2,4,5-T	102	83.6	P/P	50 - 150
Acetaminophen	104	100	P/P	60 - 160
Acetamiprid	106	103	P/P	50 - 150
Afidopyropen	91.2	101	P/P	50 - 150
Bentazon	135	150	P/P	50 - 160
Benzovindiflupyr	99.6	98.9	P/P	50 - 150
Carbamazepine	110	105	P/P	60 - 150
Clothianidin	122	109	P/P	60 - 150
Dinotefuran	116	112	P/P	50 - 150
Diuron	117	101	P/P	60 - 160
Fenuron	107	104	P/P	60 - 150
Fluridone	103	112	P/P	60 - 160
Hydrocodone	112	112	P/P	60 - 150
Ibuprofen	118	103	P/P	50 - 160
Imazapyr	96.4	89.4	P/P	50 - 150
Imidacloprid	109	111	P/P	60 - 150
Linuron	118	102	P/P	60 - 150
Mandestrobin	97.4	107	P/P	50 - 150
MCPP	97.0	93.1	P/P	50 - 150
Naproxen	68.1	105	P/P	50 - 160
Primidone	108	101	P/P	60 - 150
Pyraclostrobin	108	115	P/P	60 - 150
Silvex	97.9	97.3	P/P	50 - 150
Thiamethoxam	117	112	P/P	50 - 150
Tolfenpyrad	105	108	P/P	60 - 150
Triclopyr	112	99.1	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A120300
Included Lab Sample IDs: 2421478

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	104	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A120301
Included Lab Sample IDs: 2421486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	101	102	P/P	60 - 160
Endothall	72.5	74.6	P/P	60 - 160
Glufosinate	116	118	P/P	60 - 160
Glyphosate	129	127	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A120302
Included Lab Sample IDs: 2421486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	107	126	P/P	60 - 160
Sucralose	103	90.7	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A120308
Included Lab Sample IDs: 2421485

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	101		P	80 - 120
Fludioxonil	94.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120361
Included Lab Sample IDs: 2421618, 2421620

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	91.5		P	80 - 120
Alpha-BHC	104		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	82.3		P	80 - 120
Beta-Cyfluthrin	98.3		P	80 - 120
Bifenthrin	99.4		P	80 - 120
Carbophenothion	103		P	80 - 120
Chlorothalonil	101		P	80 - 120
Cis-Nonachlor	113		P	80 - 120
Cypermethrin	115		P	80 - 120
Dacthal	124*		F	80 - 120
DDD-p,p'	95.4		P	80 - 120
DDE-p,p'	109		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	102		P	80 - 120
Deltamethrin	105		P	80 - 120
Dichlobenil	89.2		P	80 - 120
Dicofol	95.2		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	97.5		P	80 - 120
Endosulfan II	89.9		P	80 - 120
Endosulfan Sulfate	95.9		P	80 - 120
Endrin	115		P	80 - 120
Endrin Aldehyde	95.5		P	80 - 120
Endrin Ketone	83.1		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120361
Included Lab Sample IDs: 2421618, 2421620

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Esfenvalerate	89.6		P	80 - 120
Ethalfluralin	85.7		P	80 - 120
Fenpropathrin	88.3		P	80 - 120
Gamma-BHC	92.3		P	80 - 120
Gamma-Chlordane	99.5		P	80 - 120
Heptachlor	107		P	80 - 120
Heptachlor Epoxide	112		P	80 - 120
Hexachlorobenzene	112		P	80 - 120
Kepone	110		P	80 - 120
Lambda-Cyhalothrin	89.5		P	80 - 120
Methoprene	83.8		P	80 - 120
Methoxychlor	98.5		P	80 - 120
MGK-264	95.7		P	80 - 120
Mirex	90.2		P	80 - 120
Oxychlordane	96.6		P	80 - 120
Permethrin	112		P	80 - 120
Phenothrin	111		P	80 - 120
Piperonyl Butoxide	99.8		P	80 - 120
Prallethrin	92.6		P	80 - 120
Tau-Fluvalinate	89.7		P	80 - 120
Tetramethrin	120		P	80 - 120
Trans-Nonachlor	95.6		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	113		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120374
Included Lab Sample IDs: 2421618, 2421620

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	101		P	80 - 120
PCB-1260	95.3		P	80 - 120

Reference Method: EPA 8276
Run ID: A120633
Included Lab Sample IDs: 2421618, 2421620

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.7		P	80 - 120
Toxaphene	98.6		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	102				6.27	
EPA 180.1 Rev. 2.0	Turbidity	101				4.04	
EPA 300.0 Rev. 2.1	Chloride	101	102	102		0.944	
	Sulfate	97.3	98.9	96.4			
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	98.6	98.0			0.610
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106					1.59
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.5	98.5			1.01
EPA 365.1 Rev. 2.0	Total-P	103					1.12
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.2	61.4	85.1			32.4
	Acetochlor	88.0	72.2	93.2			25.4
	Alachlor	67.3	67.0	75.2			11.5
	Aldrin	49.6	48.3	52.8			8.98
	Alpha-BHC	82.7	73.5	88.4			18.5
	Alpha-Chlordane	46.7	77.0	76.1			1.21
	Ametryn	140	98.1	110			11.8
	Atrazine	89.2	83.4	100			14.0
	Atrazine Desethyl	79.6	84.8	88.1			3.83
	Avobenzone	92.9	131	126			3.87
	Azinphos Methyl	85.4	109	102			6.34
	Azoxystrobin	67.5	114	105			8.21
	Beta-BHC	80.1	61.3	110			56.9
	Beta-Cyfluthrin	57.2	40.2	43.7			8.42
	Bifenthrin	61.2	45.9	51.5			11.6
	Bromacil	88.2	93.1	113			19.2
	Butylate	49.4	45.9	53.1			14.7
	Caffeine	103	246	152			44.4
	Carbophenothion	96.9	90.2	102			11.8
	Carbophenothion	51.5	62.7	64.6			2.99
	Carfentrazone Ethyl	108	101	114			12.2
	Chlorfenapyr	68.2	54.7	67.7			21.3
	Chlorothalonil	97.5	70.7	68.0			3.89
	Chlorpyrifos Ethyl	82.3	62.7	62.3			0.535
	Chlorpyrifos Methyl	83.8	69.4	82.8			17.6
	Cis-Nonachlor	95.0	56.4	63.2			11.2
	Coumaphos	71.3	104	115			9.88
	Cyanazine	120	111	119			7.09
	Cypermethrin	51.1	46.1	50.6			9.29
	Cyprodinil	65.6	56.9	67.1			16.4
	Dacthal	94.8	77.2	114			38.2
	DDD-p,p'	47.5	54.8	51.1			6.99
	DDE-p,p'	49.6	54.0	44.2			19.9
	DDT-p,p'	72.0	60.1	66.1			9.50
	Dechlorane 602	78.0	60.4	58.4			3.24
	Dechlorane 603	94.1	98.5	105			6.55
	Dechlorane Plus	91.9	73.7	69.8			5.33
	Delta-BHC	67.3	78.3	97.1			21.4
	Deltamethrin	55.7	47.3	53.4			12.2
	Demeton	61.0	76.2	77.6			1.80
	Diazinon	98.1	70.2	109			43.3
	Dichlobenil	67.6	50.1	63.7			24.0
	Dicofol	78.2	67.5	93.4			32.1
	Dieldrin	88.5					0.898

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Difenoconazole	56.2	97.1	100			2.87
	Dimethenamid	77.8	55.2	64.1			14.8
	Dimethomorph	105	211	197			6.91
	Disulfoton	95.0	77.2	95.3			21.0
	Dithiopyr	92.4	70.2	92.8			27.7
	Endosulfan I	64.5	71.1	125			54.7
	Endosulfan II	53.1	60.2	54.4			10.1
	Endosulfan Sulfate	67.9	61.0	68.4			11.5
	Endrin	81.5	56.7	57.8			1.97
	Endrin Aldehyde	71.9	63.1	52.9			17.5
	Endrin Ketone	73.0	76.2	60.2			23.4
	EPTC	46.9	41.3	47.4			13.8
	Esfenvalerate	53.4	58.3	56.8			2.69
	Ethalfluralin	54.3	65.7	55.5			16.9
	Ethion	88.4	40.1	30.9			25.8
	Ethoprop	81.7	94.1	93.0			1.13
	Etridiazole	62.7	62.7	65.4			4.24
	Fenamiphos	78.4	116	113			2.50
	Fenbuconazole	35.6	69.0	68.1			1.26
	Fenpropathrin	82.4	56.9	62.7			9.65
	Fipronil	109	81.3	109			28.8
	Fipronil Desulfinyl	91.7	77.7	101			24.4
	Fipronil Sulfide	91.5	68.9	89.5			22.3
	Fipronil Sulfone	98.2	83.5	114			24.5
	Fluazifop-P-butyl	51.9	57.2	44.7			24.5
	Fludioxonil	67.7	61.2	68.0			10.5
	Flumioxazin	110	163	125			26.1
	Flutolanil	67.0	52.4	52.5			0.274
	Fluxapyroxad	91.7	77.1	64.5			17.7
	Fonofos	75.3	60.6	81.9			30.0
	Gamma-BHC	85.0	96.0	143			39.2
	Gamma-Chlordane	48.6	60.9	68.3			10.3
	Heptachlor	81.2	67.1	71.2			5.93
	Heptachlor Epoxide	56.2	75.0	61.9			8.62
	Hexabromobenzene	92.0	51.3	111			73.5
	Hexachlorobenzene	71.9	72.8	91.8			23.1
	Hexazinone	89.2	77.0	78.4			1.77
	Imazalil	69.8	78.7	72.8			7.86
	Iprodione	108	90.2	93.6			3.78
	Kepone	73.3	40.8	68.7			51.0
	Lambda-Cyhalothrin	41.0	46.1	49.1			6.39
	Loratadine	105	200	201			0.109
	Malathion	125	106	125			17.0
	Metalaxyl	97.7	88.5	97.5			9.72
	Methoprene	36.0	41.5	34.1			19.5
	Methoxychlor	75.2	57.8	77.9			29.6
	Metolachlor	108	107	94.6			11.9
	Metribuzin	82.2	79.3	93.0			16.0
	Mevinphos	78.7	102	111			8.83
	MGK-264	79.9	55.9	107			63.0
	Mirex	58.0	39.0	40.0			2.45
	Molinate	56.0	58.6	66.4			12.6
	Myclobutanil	85.7	81.6	88.1			7.75
	Naled	27.6	24.3	30.9			23.9

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Napropamide	88.8	51.5	40.9			23.1
	Norflurazon	81.4	81.8	92.3			12.0
	Octinoxate	93.3	98.2	107			8.58
	Oxadiazon	82.0	73.8	79.9			7.97
	Oxybenzone	95.8	91.1	104			13.2
	Oxychlordane	44.3	64.9	68.5			5.50
	Oxyfluorfen	101	101	106			4.89
	Parathion Ethyl	86.5	83.2	84.6			1.67
	Parathion Methyl	99.7	109	128			15.8
	PBB-153	94.6	78.1	102			26.9
	PBDE-47	94.2	79.0	89.6			12.5
	PBDE-99	81.2	61.1	76.8			22.7
	PCB-1016	76.7	82.8	73.9			11.4
	PCB-1260	71.1	82.4	66.7			21.0
	Pendimethalin	104	95.3	102			6.39
	Pentabromotoluene	80.6	76.3	96.1			23.1
	Permethrin	52.4	46.0	41.2			11.1
	Phenothrin	56.6	67.6	79.0			15.5
	Phenytoin	63.1	22.3	18.3			19.9
	Phorate	65.7	83.9	85.8			2.24
	Piperonyl Butoxide	84.8	62.7	74.3			17.1
	Prallethrin	65.1	67.3	68.6			1.80
	Prodiamine	37.3	28.0	32.2			14.2
	Prometon	74.3	72.6	74.4			2.52
	Prometryn	71.5	61.0	74.6			20.0
	Pronamide	100	94.0	108			14.0
	Propanil	112	93.2	120			24.7
	Propargite	97.3	44.5	37.3			17.4
	Propiconazole	72.4	68.9	76.8			9.26
	Pyraflufen Ethyl	98.0	92.1	95.9			4.03
	Pyridaben	67.1	73.6	66.0			5.96
	Pyriproxyfen	73.2	67.9	53.1			24.5
	Simazine	71.9	64.7	73.8			13.1
	Stirophos	121	22.5	42.1			60.7
	Sulfentrazone	75.6	91.7	93.6			2.11
	Tau-Fluvalinate	51.6	53.5	54.6			2.06
	Tebuconazole	79.7	41.1	34.1			12.9
	Terbufos	95.2	93.9	108			13.5
	Terbuthylazine	81.6	68.2	90.9			28.5
	Tetradecachloro-m-terphenyl	113	128	108			16.5
	Tetramethrin	75.6	71.9	77.1			6.97
	Thiobencarb	89.4	64.7	78.5			19.4
	Trans-Nonachlor	78.6	66.3	75.3			12.8
	Tri-o-cresyl Phosphate	95.4	94.6	102			7.69
	Triadimefon	93.7	81.1	80.8			0.380
	Triclosan Methyl	64.9	71.9	93.0			25.6
	Trifluralin	70.3	63.4	67.4			6.05
	Tris(1-chloro-2-propyl) phosphate (TCPP)	102	80.7	81.0			0.399
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	89.3	96.8	90.8			6.41
	Tris(2-chloroethyl) phosphate (TCEP)	98.7	98.7	84.5			15.5
EPA 8276	Chlordane	78.7	34.7	36.3			4.69

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8276	Toxaphene	88.8	43.3	38.7			8.93
EPA 8321B	2,4-D	90.9	101	95.4			5.43
	2,4,5-T	93.6	110	111			1.01
	Acesulfame K	105	110	113			3.03
	Acetaminophen	83.5	80.9	81.4			0.607
	Acetamiprid	75.4	55.1	55.9			1.38
	Afidopyropen	57.1	48.7	48.3			0.710
	AMPA	80.7	136	124			9.17
	Bentazon	124	72.1	70.8			1.87
	Benzovindiflupyr	87.1	79.5	86.5			8.42
	Carbamazepine	77.9	57.0	55.6			2.42
	Clothianidin	88.6	81.8	80.1			2.11
	Dinotefuran	102	68.4	75.5			9.88
	Diuron	43.2	40.3	53.7			28.5
	Endothall	71.5	74.5	71.9			3.45
	Fenuron	90.9	61.8	61.6			0.416
	Fluridone	93.2	86.7	83.6			3.75
	Glufosinate	119	124	143			13.7
	Glyphosate	125	124	123			0.793
	Hydrocodone	76.8	53.2	55.4			3.96
	Ibuprofen	93.2	69.1	75.2			8.48
	Imazapyr	85.7	91.1	92.4			1.37
	Imidacloprid	89.2	117	118			0.336
	Linuron	78.6	58.8	66.9			12.8
	Mandestrobin	77.9	74.4	75.2			0.994
	MCPP	104	124	119			4.20
	Naproxen	85.2	59.2	55.9			5.72
	Primidone	82.8	76.5	78.3			2.40
	Pyraclostrobin	83.9	78.5	79.0			0.620
	Silvex	108	100	108			7.16
	Sucralose	89.4	94.8	98.2			3.42
	Thiamethoxam	87.7	67.3	59.9			11.6
	Tolfenpyrad	60.2	51.7	53.1			2.73
	Triclopyr	96.0	114	116			1.63
SM 2320 B-2011	Total Alkalinity	96.4				1.33	
SM 2540 C-2015	TDS	96.5				0.690	
SM 2540 D-2015	TSS	89.7					
SM 4500-F- C-2011	Fluoride	99.2	100	100			0.0
SM 5310 B-2011	Organic Carbon	93.9	95.1	96.0			0.758

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2421478
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2421478
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2421478
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2421478
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2421479
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2421479
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2421479
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2421479
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2421485, 2421619, 2421621
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2421618, 2421620

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2421485, 2421619, 2421621
EPA 8270E	PCBs in water matrices by GC/MS/MS	2421618, 2421620
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2421618, 2421620
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2421486
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2421478
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2421478
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2421478
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2421478
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2421479

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	07/06/2023			07/06/2023 14:01	Samantha L Bates	2421478
EPA 180.1 Rev. 2.0	07/06/2023			07/06/2023 13:43	Alexis Price	2421478
EPA 300.0 Rev. 2.1	07/06/2023			07/10/2023 22:18	James L Waggerby	2421478
EPA 350.1 Rev. 2.0	07/06/2023			07/07/2023 12:20	Ping Hua	2421479
EPA 351.2 Rev. 2.0	07/06/2023	07/07/2023 14:27	Simonne.V. Calhoun	07/10/2023 13:44	Samantha L Bates	2421479
EPA 353.2 Rev. 2.0	07/06/2023			07/10/2023 11:58	Beverly Y. Sanders	2421479
EPA 365.1 Rev. 2.0	07/06/2023	07/07/2023 16:02	Adam P Silver	07/10/2023 13:13	Chandler E Cox	2421479
EPA 8270E	07/06/2023	07/06/2023 14:00	Rasheda Ghaffari	07/08/2023 19:23	Michael Poppell	2421485
	07/06/2023	07/06/2023 14:00	Rasheda Ghaffari	07/08/2023 19:50	Michael Poppell	2421621
	07/06/2023	07/06/2023 14:00	Rasheda Ghaffari	07/08/2023 20:17	Michael Poppell	2421619
	07/06/2023	07/06/2023 14:00	Rasheda Ghaffari	07/10/2023 21:20	Arthur Maknenko	2421485
	07/06/2023	07/06/2023 14:00	Rasheda Ghaffari	07/10/2023 21:46	Arthur Maknenko	2421619
	07/06/2023	07/06/2023 14:00	Rasheda Ghaffari	07/10/2023 22:12	Arthur Maknenko	2421621
	07/06/2023	07/06/2023 14:00	Rasheda Ghaffari	07/11/2023 17:02	Michael Poppell	2421485
	07/06/2023	07/10/2023 08:00	Fe-Val Siddell	07/12/2023 20:28	Michael Poppell	2421618
	07/06/2023	07/10/2023 08:00	Fe-Val Siddell	07/12/2023 21:00	Michael Poppell	2421620
	07/06/2023	07/10/2023 08:00	Fe-Val Siddell	07/13/2023 00:35	Lipi Saha	2421618
	07/06/2023	07/10/2023 08:00	Fe-Val Siddell	07/13/2023 01:05	Lipi Saha	2421620
EPA 8276	07/06/2023	07/20/2023 08:30	Rasheda Ghaffari	07/25/2023 10:44	Arthur Maknenko	2421618
	07/06/2023	07/20/2023 08:30	Rasheda Ghaffari	07/25/2023 11:39	Arthur Maknenko	2421620
EPA 8321B	07/06/2023	07/07/2023 13:05	Hoor Shaik	07/10/2023 18:49	Juyoung Kim	2421486
	07/06/2023	07/11/2023 12:30	Hana Lee	07/11/2023 14:55	Hana Lee	2421486
	07/06/2023	07/11/2023 12:30	Hana Lee	07/11/2023 23:34	Hana Lee	2421486
SM 2320 B-2011	07/06/2023			07/08/2023 06:31	Dale L. Simmons	2421478
SM 2540 C-2015	07/06/2023			07/10/2023 14:00	Dana G. Hughes	2421478
SM 2540 D-2015	07/06/2023			07/10/2023 12:20	Dana G. Hughes	2421478
SM 4500-F- C-2011	07/06/2023			07/08/2023 06:31	Dale L. Simmons	2421478
SM 5310 B-2011	07/06/2023			07/07/2023 20:22	Elise M. Gillis	2421479