

Chemical Analysis Report

NE-DIST-2023-03-10-01

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

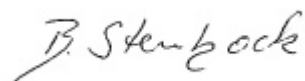
Event Description: **LSJR Hastings 2023**
Request ID: **RQ-2023-02-20-27**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 04-APR-2023 12:10



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: Mill BR. @ OLD SAN MATEO RD.

Collection Date/Time: 03/09/2023 09:45

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393463	EPA 8270E	Aldrin	0.67	U	ng/L	P427091	
		Alpha-BHC	0.10	U	ng/L	P427091	
		Alpha-Chlordane	0.20	U	ng/L	P427091	
		PCB-1016	2.0	U	ng/L	P427091	
		Beta-BHC	0.10	U	ng/L	P427091	
		PCB-1221	2.0	U	ng/L	P427091	
		Beta-Cyfluthrin	1.3	U	ng/L	P427091	
		PCB-1232	2.0	U	ng/L	P427091	
		Bifenthrin	0.51	U	ng/L	P427091	
		PCB-1242	2.0	U	ng/L	P427091	
		PCB-1248	2.0	U	ng/L	P427091	
		Chlorothalonil	3.7	U	ng/L	P427091	MS
		PCB-1254	2.0	U	ng/L	P427091	
		Cis-Nonachlor	0.20	U	ng/L	P427091	
		PCB-1260	2.0	U	ng/L	P427091	
		Cypermethrin	1.5	U	ng/L	P427091	
		Dacthal	0.15	U	ng/L	P427091	
		DDD-p,p'	0.26	U	ng/L	P427091	
		DDE-p,p'	0.20	U	ng/L	P427091	
		DDT-p,p'	0.26	U	ng/L	P427091	
		Delta-BHC	0.41	U	ng/L	P427091	
		Deltamethrin	1.3	U	ng/L	P427091	
		Dichlobenil	0.26	U	ng/L	P427091	
		Dicofol	1.3	U	ng/L	P427091	
		Dieldrin	0.41	U	ng/L	P427091	
		Endosulfan I	0.41	U	ng/L	P427091	
		Endosulfan II	0.41	U	ng/L	P427091	
		Endosulfan Sulfate	0.31	U	ng/L	P427091	
		Endrin	0.41	U	ng/L	P427091	
		Endrin Aldehyde	0.77	U	ng/L	P427091	
		Endrin Ketone	0.41	U	ng/L	P427091	
		Esfenvalerate	0.77	U	ng/L	P427091	
		Ethalfuralin	0.15	U	ng/L	P427091	
		Fenpropathrin	0.26	U	ng/L	P427091	
		Gamma-BHC	0.13	U	ng/L	P427091	
		Gamma-Chlordane	0.20	U	ng/L	P427091	
		Heptachlor	0.20	U	ng/L	P427091	
		Heptachlor Epoxide	0.26	U	ng/L	P427091	
		Hexachlorobenzene**	1.0	U	ng/L	P427091	
		Kepone	5.1	U	ng/L	P427091	
		Lambda-Cyhalothrin	0.77	U	ng/L	P427091	
		Methoprene	0.77	U	ng/L	P427091	
		Methoxychlor	0.31	U	ng/L	P427091	
		MGK-264	0.20	U	ng/L	P427091	MS

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393463	EPA 8270E	Mirex	0.36	U	ng/L	P427091	
		Oxychlordane	0.31	U	ng/L	P427091	
		Permethrin	1.6	U	ng/L	P427091	
		Phenothrin	0.92	U	ng/L	P427091	
		Piperonyl Butoxide	0.15	U	ng/L	P427091	
		Prallethrin	2.0	U	ng/L	P427091	
		Tau-Fluvalinate	0.26	U	ng/L	P427091	
		Tetramethrin	0.77	U	ng/L	P427091	
		Trans-Nonachlor	0.20	U	ng/L	P427091	
		Triclosan Methyl	0.15	U	ng/L	P427091	
		Trifluralin	0.20	U	ng/L	P427091	
	EPA 8276	Chlordane	2.0	U	ng/L	P427091	
		Toxaphene	35	I	ng/L	P427091	
2393464	EPA 8270E	Oxybenzone**	10	UJ	ng/L	P426915	LCS
		Acetochlor	0.21	U	ng/L	P426915	
		Octinoxate**	21	U	ng/L	P426915	
		Alachlor	0.42	U	ng/L	P426915	
		Avobenzone**	100	U	ng/L	P426915	
		Ametryn	1.2	UJ	ng/L	P426915	LCS
		Atrazine	0.32	IJ	ng/L	P426915	LCS
		PBDE-47**	4.2	U	ng/L	P426915	
		Atrazine Desethyl	1.4	U	ng/L	P426915	
		PBDE-99**	5.2	U	ng/L	P426915	
		Azinphos Methyl	3.1	U	ng/L	P426915	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P426915	
		Azoxystrobin	7.6	J	ng/L	P426915	LCS
		Bromacil	0.63	U	ng/L	P426915	
		2-Ethylhexyl	13	U	ng/L	P426915	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P426915	
		Dechlorane Plus**	31	U	ng/L	P426915	
		Caffeine**	8.8	I	ng/L	P426915	
		Dechlorane 602**	5.2	U	ng/L	P426915	
		Carbophenothion	0.52	U	ng/L	P426915	MS
		Dechlorane 603**	4.2	U	ng/L	P426915	
		Carfentrazone Ethyl	0.16	U	ng/L	P426915	MS
		Hexabromobenzene**	6.3	U	ng/L	P426915	
		Chlorfenapyr	0.31	U	ng/L	P426915	
		PBB-153**	8.4	U	ng/L	P426915	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P426915	
		Pentabromotoluene**	3.1	U	ng/L	P426915	
		Chlorpyrifos Methyl	0.10	U	ng/L	P426915	
		Tris(2-chloroethyl) phosphate (TCEP)**	73	UJ	ng/L	P426915	LCS
		Coumaphos	1.1	U	ng/L	P426915	RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	16	U	ng/L	P426915	MS

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393464	EPA 8270E	Cyanazine	5.2	U	ng/L	P426915	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P426915	
		Cyprodinil	0.21	U	ng/L	P426915	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P426915	
		Demeton	3.7	U	ng/L	P426915	
		Diazinon	0.13	U	ng/L	P426915	
		Difenoconazole	0.70	I	ng/L	P426915	MS
		Dimethenamid	0.10	U	ng/L	P426915	
		Dimethomorph	0.31	U	ng/L	P426915	
		Disulfoton	0.63	U	ng/L	P426915	
		Dithiopyr	1.0	U	ng/L	P426915	
		EPTC	0.52	U	ng/L	P426915	
		Ethion	0.31	U	ng/L	P426915	
		Ethoprop	26		ng/L	P426915	
		Etridiazole	0.10	U	ng/L	P426915	
		Fenamiphos	0.47	U	ng/L	P426915	
		Fenbuconazole	0.52	UJ	ng/L	P426915	LCS
		Fipronil	0.44	I	ng/L	P426915	MS
		Fipronil Desulfinyl**	0.31	I	ng/L	P426915	MS
		Fipronil Sulfide	4.5		ng/L	P426915	
		Fipronil Sulfone	8.0		ng/L	P426915	
		Fluazifop-P-butyl	0.10	U	ng/L	P426915	
		Fludioxonil	6.8		ng/L	P426915	
		Flumioxazin	3.1	U	ng/L	P426915	
		Flutolanil	0.23	I	ng/L	P426915	
		Fluxapyroxad	3.3		ng/L	P426915	MS
		Fonofos	0.16	U	ng/L	P426915	
		Hexazinone	0.52	U	ng/L	P426915	
		Imazalil	0.68	U	ng/L	P426915	
		Iprodione	0.52	U	ng/L	P426915	
		Loratadine**	0.31	U	ng/L	P426915	
		Malathion	0.37	U	ng/L	P426915	
		Metalaxyl	1.1	I	ng/L	P426915	
		Metolachlor	160		ng/L	P426915	MS
		Metribuzin	3.4E+04	J	ng/L	P426915	LCS, MS, RPD
		Mevinphos	1.0	U	ng/L	P426915	
		Molinate	0.26	U	ng/L	P426915	
		Myclobutanil	0.37	U	ng/L	P426915	
		Naled	2.6	U	ng/L	P426915	
		Napropamide	5.2		ng/L	P426915	
		Norflurazon	1.0	U	ng/L	P426915	
		Oxadiazon	0.37	U	ng/L	P426915	
		Oxyfluorfen	0.21	U	ng/L	P426915	
		Parathion Ethyl	0.16	UJ	ng/L	P426915	LCS, MS

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393464	EPA 8270E	Parathion Methyl	0.21	U	ng/L	P426915	
		Pendimethalin	0.78	U	ng/L	P426915	
		Phenytoin**	5.5	U	ng/L	P426915	
		Phorate	0.26	U	ng/L	P426915	
		Prodiamine	0.21	U	ng/L	P426915	
		Prometon	3.1	U	ng/L	P426915	
		Prometryn	0.37	U	ng/L	P426915	
		Pronamide	0.10	U	ng/L	P426915	
		Propanil	0.10	U	ng/L	P426915	
		Propargite	0.84	U	ng/L	P426915	
		Propiconazole	2.6	I	ng/L	P426915	
		Pyraflufen Ethyl	0.31	U	ng/L	P426915	
		Pyridaben	1.5	U	ng/L	P426915	
		Pyriproxyfen	0.26	U	ng/L	P426915	MS
		Simazine	0.26	UJ	ng/L	P426915	LCS
		Stiophos	0.42	U	ng/L	P426915	
		Sulfentrazone	1.5	U	ng/L	P426915	
		Tebuconazole	1.5	U	ng/L	P426915	
		Terbufos	0.21	U	ng/L	P426915	MS
		Terbutylazine	0.21	UJ	ng/L	P426915	LCS
		Thiobencarb	0.52	U	ng/L	P426915	
		Triadimefon	0.16	U	ng/L	P426915	

Ref. Method and Comment:

EPA 8270E: MS precision for chlorothalonil not assessed due to no recoveries.

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

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

Sample Location: Cow Creek at Putnam county blvd.

Collection Date/Time: 03/09/2023 10:15

Field ID: G2NE1143

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393453	DEP SOP: NU-094-1	Color (true)	7.6		PCU	P427017	
	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P427024	
	EPA 300.0 Rev. 2.1	Chloride	600		mg Cl/L	P427540	
		Sulfate	220		mg SO4/L	P427543	
	SM 2320 B-2011	Total Alkalinity	105		mg CaCO3/L	P427347	
	SM 2540 C-2015	TDS	1.32E+03		mg/L	P427512	
	SM 2540 D-2015	TSS	3	I	mg/L	P427358	
	SM 4500-F- C-2011	Fluoride	0.31		mg F/L	P427296	
2393454	EPA 350.1 Rev. 2.0	Ammonia-N	0.050		mg N/L	P427197	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P427252	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.057		mg N/L	P427288	
	EPA 365.1 Rev. 2.0	Total-P	0.094		mg P/L	P427169	
	SM 5310 B-2011	Organic Carbon	2.3		mg C/L	P427324	

Ref. Method and Comment:

SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 2740 umhos/cm.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Sixteen Mile Creek at Ashley St.

Collection Date/Time: 03/09/2023 10:45

Field ID: 20030688

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393469	EPA 8321B	2,4-D	0.0029	I	ug/L	P427187	
		Acesulfame K	0.10	U	ug/L	P426930	
		2,4,5-T	0.0040	U	ug/L	P427187	
		AMPA	0.23	I	ug/L	P426930	
		Acetaminophen	0.0080	U	ug/L	P427187	
		Acetamiprid	0.0020	U	ug/L	P427187	
		Endothall	0.25	U	ug/L	P426930	
		Glufosinate	0.10	U	ug/L	P426930	
		Glyphosate	0.35	I	ug/L	P426930	
		Afidopyropen	0.0020	U	ug/L	P427187	
		Bentazon	0.0016	I	ug/L	P427187	
		Sucralose	0.045		ug/L	P426930	
		Benzovindiflupyr	0.0020	U	ug/L	P427187	
		Carbamazepine	8.0E-04	U	ug/L	P427187	
		Clothianidin	0.013		ug/L	P427187	
		Dinotefuran	0.0020	U	ug/L	P427187	
		Diuron	0.0020	U	ug/L	P427187	
		Fenuron	0.032	U	ug/L	P427187	
		Fluridone	0.019		ug/L	P427187	
		Imazapyr	0.054		ug/L	P427187	
		Hydrocodone	0.0020	U	ug/L	P427187	
		Ibuprofen	0.080	U	ug/L	P427187	
		Imidacloprid	0.0083		ug/L	P427187	
		Linuron	0.0040	U	ug/L	P427187	
		Mandestrobin	0.0020	U	ug/L	P427187	
		MCPP	0.0020	U	ug/L	P427187	
		Naproxen	0.0080	U	ug/L	P427187	
		Primidone	0.0040	U	ug/L	P427187	
		Pyraclostrobin	0.0020	U	ug/L	P427187	
		Silvex	0.0040	U	ug/L	P427187	
		Thiamethoxam	0.0062	I	ug/L	P427187	
		Tolfenpyrad	0.0020	U	ug/L	P427187	
		Triclopyr	0.0040	U	ug/L	P427187	

Sample Location: Unnmaed Ditch at Cowpen Branch Rd.

Collection Date/Time: 03/09/2023 11:10

Field ID: G2NE1222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393465	EPA 8270E	Oxybenzone**	11	UJ	ng/L	P426915	LCS
		Acetochlor	0.21	U	ng/L	P426915	
		Octinoxate**	21	U	ng/L	P426915	
		Alachlor	0.43	U	ng/L	P426915	
		Avobenzone**	110	U	ng/L	P426915	
		Ametryn	1.2	UJ	ng/L	P426915	LCS
		Atrazine	0.78	IJ	ng/L	P426915	LCS
		PBDE-47**	4.3	U	ng/L	P426915	
		Atrazine Desethyl	1.4	U	ng/L	P426915	
		PBDE-99**	5.3	U	ng/L	P426915	
		Azinphos Methyl	3.2	U	ng/L	P426915	
		Tri-o-cresyl Phosphate**	6.4	U	ng/L	P426915	
		Azoxystrobin	40	J	ng/L	P426915	LCS
		Bromacil	0.64	U	ng/L	P426915	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P426915	
		Butylate	0.21	U	ng/L	P426915	
		Dechlorane Plus**	32	U	ng/L	P426915	
		Caffeine**	8.0	U	ng/L	P426915	
		Dechlorane 602**	5.3	U	ng/L	P426915	
		Carbophenothion	0.53	U	ng/L	P426915	MS
		Dechlorane 603**	4.3	U	ng/L	P426915	
		Carfentrazone Ethyl	0.16	U	ng/L	P426915	MS
		Hexabromobenzene**	6.4	U	ng/L	P426915	
		Chlorfenapyr	0.32	U	ng/L	P426915	
		PBB-153**	8.5	U	ng/L	P426915	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P426915	
		Pentabromotoluene**	3.2	U	ng/L	P426915	
		Chlorpyrifos Methyl	0.11	U	ng/L	P426915	
		Tris(2-chloroethyl) phosphate (TCEP)**	75	UJ	ng/L	P426915	LCS
		Coumaphos	1.1	U	ng/L	P426915	RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	16	U	ng/L	P426915	MS
		Cyanazine	5.3	U	ng/L	P426915	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.7	U	ng/L	P426915	
		Cyprodinil	0.21	U	ng/L	P426915	
		Tetradecachloro-m-terphenyl**	8.0	U	ng/L	P426915	
		Demeton	3.7	U	ng/L	P426915	
		Diazinon	0.13	U	ng/L	P426915	
		Difenoconazole	2.9	I	ng/L	P426915	MS
		Dimethenamid	0.11	U	ng/L	P426915	
		Dimethomorph	0.32	U	ng/L	P426915	
		Disulfoton	0.64	U	ng/L	P426915	
		Dithiopyr	1.1	U	ng/L	P426915	

Field ID: G2NE1222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393465	EPA 8270E	EPTC	2.7		ng/L	P426915	
		Ethion	0.32	U	ng/L	P426915	
		Ethoprop	110		ng/L	P426915	
		Etridiazole	0.11	U	ng/L	P426915	
		Fenamiphos	0.48	U	ng/L	P426915	
		Fenbuconazole	0.53	UJ	ng/L	P426915	LCS
		Fipronil	1.7		ng/L	P426915	MS
		Fipronil Desulfinyl**	0.48	I	ng/L	P426915	MS
		Fipronil Sulfide	3.8		ng/L	P426915	
		Fipronil Sulfone	6.5		ng/L	P426915	
		Fluazifop-P-butyl	0.11	U	ng/L	P426915	
		Fludioxonil	56		ng/L	P426915	
		Flumioxazin	3.2	U	ng/L	P426915	
		Flutolanil	0.61		ng/L	P426915	
		Fluxapyroxad	0.27	U	ng/L	P426915	MS
		Fonofos	0.16	U	ng/L	P426915	
		Hexazinone	0.53	U	ng/L	P426915	
		Imazalil	0.69	U	ng/L	P426915	
		Iprodione	0.53	U	ng/L	P426915	
		Loratadine**	0.32	U	ng/L	P426915	
		Malathion	0.37	U	ng/L	P426915	
		Metalaxyl	1.2	I	ng/L	P426915	
		Metolachlor	3.0	I	ng/L	P426915	MS
		Metribuzin	180	J	ng/L	P426915	LCS, MS, RPD
		Mevinphos	1.1	U	ng/L	P426915	
		Molinate	0.27	U	ng/L	P426915	
		Myclobutanil	0.37	U	ng/L	P426915	
		Naled	2.7	U	ng/L	P426915	
		Napropamide	0.75	U	ng/L	P426915	
		Norflurazon	1.1	U	ng/L	P426915	
		Oxadiazon	0.37	U	ng/L	P426915	
		Oxyfluorfen	0.21	U	ng/L	P426915	
		Parathion Ethyl	0.16	UJ	ng/L	P426915	LCS, MS
		Parathion Methyl	0.21	U	ng/L	P426915	
		Pendimethalin	140		ng/L	P426915	
		Phenytol**	5.7	U	ng/L	P426915	
		Phorate	0.27	U	ng/L	P426915	
		Prodiamine	0.21	U	ng/L	P426915	
		Prometon	3.2	U	ng/L	P426915	
		Prometryn	0.37	U	ng/L	P426915	
		Pronamide	0.11	U	ng/L	P426915	
		Propanil	0.11	U	ng/L	P426915	
		Propargite	0.85	U	ng/L	P426915	
		Propiconazole	16		ng/L	P426915	

Field ID: G2NE1222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393465	EPA 8270E	Pyraflufen Ethyl	0.32	U	ng/L	P426915	
		Pyridaben	1.5	U	ng/L	P426915	
		Pyriproxyfen	0.27	U	ng/L	P426915	MS
		Simazine	0.27	UJ	ng/L	P426915	LCS
		Stirophos	0.43	U	ng/L	P426915	
		Sulfentrazone	1.5	U	ng/L	P426915	
		Tebuconazole	1.5	U	ng/L	P426915	
		Terbufos	0.21	U	ng/L	P426915	MS
		Terbuthylazine	0.21	UJ	ng/L	P426915	LCS
		Thiobencarb	0.53	U	ng/L	P426915	
		Triadimefon	0.16	U	ng/L	P426915	

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

Sample Location: FB

Collection Date/Time: 03/09/2023 11:15

Field ID: FB_03092023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393466	EPA 8270E	Oxybenzone**	10	UJ	ng/L	P426915	LCS
		Acetochlor	0.21	U	ng/L	P426915	
		Octinoxate**	21	U	ng/L	P426915	
		Alachlor	0.42	U	ng/L	P426915	
		Avobenzone**	100	U	ng/L	P426915	
		Ametryn	1.1	UJ	ng/L	P426915	LCS
		Atrazine	0.21	UJ	ng/L	P426915	LCS
		PBDE-47**	4.2	U	ng/L	P426915	
		Atrazine Desethyl	1.4	U	ng/L	P426915	
		PBDE-99**	5.2	U	ng/L	P426915	
		Azinphos Methyl	3.1	U	ng/L	P426915	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P426915	
		Azoxystrobin	0.42	UJ	ng/L	P426915	LCS
		Bromacil	0.62	U	ng/L	P426915	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P426915	
		Butylate	0.21	U	ng/L	P426915	
		Dechlorane Plus**	31	U	ng/L	P426915	
		Caffeine**	7.8	U	ng/L	P426915	
		Dechlorane 602**	5.2	U	ng/L	P426915	
		Carbophenothion	0.52	U	ng/L	P426915	MS
		Dechlorane 603**	4.2	U	ng/L	P426915	
		Carfentrazone Ethyl	0.16	U	ng/L	P426915	MS
		Hexabromobenzene**	6.2	U	ng/L	P426915	
		Chlorfenapyr	0.31	U	ng/L	P426915	
		PBB-153**	8.3	U	ng/L	P426915	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P426915	
		Pentabromotoluene**	3.1	U	ng/L	P426915	
		Chlorpyrifos Methyl	0.10	U	ng/L	P426915	
		Tris(2-chloroethyl) phosphate (TCEP)**	73	UJ	ng/L	P426915	LCS
		Coumaphos	1.1	U	ng/L	P426915	RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	16	U	ng/L	P426915	MS
		Cyanazine	5.2	U	ng/L	P426915	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P426915	
		Cyprodinil	0.21	U	ng/L	P426915	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P426915	
		Demeton	3.6	U	ng/L	P426915	
		Diazinon	0.13	U	ng/L	P426915	
		Difenoconazole	0.62	U	ng/L	P426915	MS
		Dimethenamid	0.10	U	ng/L	P426915	
		Dimethomorph	0.31	U	ng/L	P426915	
		Disulfoton	0.62	U	ng/L	P426915	
		Dithiopyr	1.0	U	ng/L	P426915	

Field ID: FB_03092023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393466	EPA 8270E	EPTC	0.52	U	ng/L	P426915	
		Ethion	0.31	U	ng/L	P426915	
		Ethoprop	0.13	U	ng/L	P426915	
		Etridiazole	0.10	U	ng/L	P426915	
		Fenamiphos	0.47	U	ng/L	P426915	
		Fenbuconazole	0.52	UJ	ng/L	P426915	LCS
		Fipronil	0.21	U	ng/L	P426915	MS
		Fipronil Desulfinyl**	0.10	U	ng/L	P426915	MS
		Fipronil Sulfide	0.10	U	ng/L	P426915	
		Fipronil Sulfone	0.10	U	ng/L	P426915	
		Fluazifop-P-butyl	0.10	U	ng/L	P426915	
		Fludioxonil	0.10	U	ng/L	P426915	
		Flumioxazin	3.1	U	ng/L	P426915	
		Flutolanil	0.10	U	ng/L	P426915	
		Fluxapyroxad	0.26	U	ng/L	P426915	MS
		Fonofos	0.16	U	ng/L	P426915	
		Hexazinone	0.52	U	ng/L	P426915	
		Imazalil	0.68	U	ng/L	P426915	
		Iprodione	0.52	U	ng/L	P426915	
		Loratadine**	0.31	U	ng/L	P426915	
		Malathion	0.36	U	ng/L	P426915	
		Metalaxyl	0.52	U	ng/L	P426915	
		Metolachlor	0.78	U	ng/L	P426915	MS
		Metribuzin	0.42	UJ	ng/L	P426915	LCS, MS, RPD
		Mevinphos	1.0	U	ng/L	P426915	
		Molinate	0.26	U	ng/L	P426915	
		Myclobutanil	0.36	U	ng/L	P426915	
		Naled	2.6	U	ng/L	P426915	
		Napropamide	0.73	U	ng/L	P426915	
		Norflurazon	1.0	U	ng/L	P426915	
		Oxadiazon	0.36	U	ng/L	P426915	
		Oxyfluorfen	0.21	U	ng/L	P426915	
		Parathion Ethyl	0.16	UJ	ng/L	P426915	LCS, MS
		Parathion Methyl	0.21	U	ng/L	P426915	
		Pendimethalin	0.78	U	ng/L	P426915	
		Phenytol**	5.5	U	ng/L	P426915	
		Phorate	0.26	U	ng/L	P426915	
		Prodiamine	0.21	U	ng/L	P426915	
		Prometon	3.1	U	ng/L	P426915	
		Prometryn	0.36	U	ng/L	P426915	
		Pronamide	0.10	U	ng/L	P426915	
		Propanil	0.10	U	ng/L	P426915	
		Propargite	0.83	U	ng/L	P426915	
		Propiconazole	0.62	U	ng/L	P426915	

Field ID: FB_03092023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2393466	EPA 8270E	Pyraflufen Ethyl	0.31	U	ng/L	P426915	
		Pyridaben	1.5	U	ng/L	P426915	
		Pyriproxyfen	0.26	U	ng/L	P426915	MS
		Simazine	0.26	UJ	ng/L	P426915	LCS
		Stirophos	0.42	U	ng/L	P426915	
		Sulfentrazone	1.5	U	ng/L	P426915	
		Tebuconazole	1.5	U	ng/L	P426915	
		Terbufos	0.21	U	ng/L	P426915	MS
		Terbuthylazine	0.21	UJ	ng/L	P426915	LCS
		Thiobencarb	0.52	U	ng/L	P426915	
		Triadimefon	0.16	U	ng/L	P426915	

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

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P427017

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427024

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427540

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427543

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427197

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427252

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427288

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427169

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

Reference Method: EPA 8270E
Batch ID: P426915

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: P426915

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: P426915

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: P426915

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	20	U	ng/L
Octinoxate	20	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: P426915

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
Terbutylazine	0.20	U	ng/L
Terbutylazine	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: P427091

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427091

Component	Result	Code	Units
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'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427091

Component	Result	Code	Units
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
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: P427091

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276
Batch ID: P427091

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

Reference Method: EPA 8321B
Batch ID: P426930

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

Reference Method: EPA 8321B
Batch ID: P427187

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: SM 2320 B-2011
Batch ID: P427347

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P427512

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P427358

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P427296

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P427324

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: P427017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.1		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427024

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427540

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427197

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427252

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427288

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427169

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

Reference Method: EPA 8270E
Batch ID: P426915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	69.9		P	42 - 162
Acetochlor	76.4		P	69 - 123
Alachlor	94.4		P	65 - 118
Ametryn	271		F	58 - 141

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P426915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	57.4		F	73 - 118
Atrazine Desethyl	85.1		P	32 - 125
Avobenzone	81.0		P	40 - 203
Azinphos Methyl	56.9		P	36 - 197
Azoxystrobin	47.2		F	58 - 226
Bromacil	100		P	48 - 120
Butylate	48.7		P	27 - 85.0
Caffeine	96.1		P	40 - 137
Carbophenothion	69.5		P	54 - 132
Carfentrazone Ethyl	81.4		P	60 - 142
Chlorfenapyr	53.6		P	53 - 117
Chlorpyrifos Ethyl	100		P	59 - 116
Chlorpyrifos Methyl	90.4		P	66 - 119
Coumaphos	109		P	11 - 234
Cyanazine	174		P	61 - 248
Cyprodinil	92.2		P	50 - 147
Dechlorane 602	85.1		P	50 - 150
Dechlorane 603	86.6		P	50 - 150
Dechlorane Plus	86.6		P	47 - 182
Demeton	49.5		P	30 - 138
Diazinon	74.0		P	67 - 126
Difenoconazole	76.1		P	38 - 205
Dimethenamid	84.3		P	57 - 111
Dimethomorph	78.8		P	16 - 212
Disulfoton	56.9		P	46 - 126
Dithiopyr	90.1		P	62 - 115
EPTC	38.6		P	28 - 80.0
Ethion	46.4		P	24 - 122
Ethoprop	77.0		P	62 - 113
Etridiazole	56.1		P	28 - 92.0
Fenamiphos	69.1		P	57 - 128
Fenbuconazole	24.8		F	52 - 155
Fipronil	70.2		P	63 - 130
Fipronil Desulfinyl	63.0		P	61 - 130
Fipronil Sulfide	63.1		P	56 - 117
Fipronil Sulfone	77.4		P	52 - 118
Fluazifop-P-butyl	62.6		P	61 - 128
Fludioxonil	67.1		P	59 - 129
Flumioxazin	112		P	30 - 250
Flutolanil	81.6		P	53 - 127
Fluxapyroxad	102		P	42 - 132
Fonofos	82.3		P	61 - 110
Hexabromobenzene	123		P	50 - 150
Hexazinone	58.7		P	46 - 139
Imazalil	46.8		P	40 - 139
Iprodione	110		P	40 - 146
Loratadine	103		P	10 - 224
Malathion	70.2		P	61 - 135
Metalaxyl	67.7		P	58 - 121
Metolachlor	87.3		P	64 - 118
Metribuzin	33.3		F	45 - 245
Mevinphos	52.1		P	49 - 118

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	47.4		P	42 - 92.0
Myclobutanil	99.2		P	55 - 127
Naled	34.5		P	10 - 114
Napropamide	66.0		P	39 - 121
Norflurazon	55.1		P	55 - 129
Octinoxate	124		P	26 - 166
Oxadiazon	60.1		P	54 - 115
Oxybenzone	150		F	49 - 135
Oxyfluorfen	108		P	64 - 139
Parathion Ethyl	43.2		F	70 - 111
Parathion Methyl	78.9		P	76 - 136
PBB-153	76.9		P	50 - 150
PBDE-47	116		P	41 - 148
PBDE-99	61.6		P	38 - 147
Pendimethalin	115		P	52 - 118
Pentabromotoluene	131		P	50 - 150
Phenytoin	74.0		P	10 - 162
Phorate	62.0		P	40 - 122
Prodiamine	103		P	26 - 141
Prometon	71.7		P	54 - 122
Prometryn	105		P	61 - 128
Pronamide	72.8		P	72 - 121
Propanil	72.3		P	45 - 144
Propargite	29.3		P	10 - 199
Propiconazole	93.6		P	56 - 127
Pyraflufen Ethyl	56.5		P	56 - 140
Pyridaben	84.1		P	26 - 211
Pyriproxyfen	34.0		P	33 - 194
Simazine	50.7		F	67 - 121
Stirophos	54.7		P	20 - 142
Sulfentrazone	110		P	21 - 144
Tebuconazole	49.6		P	10 - 122
Terbufos	63.5		P	60 - 129
Terbutylazine	67.5		F	69 - 113
Tetradecachloro-m-terphenyl	112		P	70 - 200
Thiobencarb	82.7		P	51 - 120
Tri-o-cresyl Phosphate	137		P	49 - 150
Triadimefon	69.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	134		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	123		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	205		F	70 - 180

Reference Method: EPA 8270E

Batch ID: P427091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	29.8		P	10 - 92.0
Alpha-BHC	85.0		P	75 - 107
Alpha-Chlordane	50.9		P	50 - 108
Beta-BHC	89.4		P	36 - 138
Beta-Cyfluthrin	31.5		P	20 - 161
Bifenthrin	21.3		P	10 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorothalonil	65.1		P	26 - 186
Cis-Nonachlor	46.3		P	42 - 119
Cypermethrin	37.6		P	22 - 150
Dacthal	77.6		P	72 - 119
DDD-p,p'	57.2		P	45 - 107
DDE-p,p'	49.8		P	48 - 106
DDT-p,p'	54.0		P	48 - 110
Delta-BHC	88.7		P	54 - 140
Deltamethrin	37.8		P	22 - 189
Dichlobenil	61.1		P	36 - 117
Dicofol	56.6		P	46 - 155
Dieldrin	63.8		P	54 - 110
Endosulfan I	64.6		P	59 - 105
Endosulfan II	83.5		P	51 - 118
Endosulfan Sulfate	79.2		P	57 - 121
Endrin	67.6		P	10 - 120
Endrin Aldehyde	68.4		P	34 - 118
Endrin Ketone	77.0		P	69 - 177
Esfenvalerate	34.0		P	23 - 168
Ethalfuralin	53.3		P	49 - 99.0
Fenpropathrin	36.2		P	34 - 117
Gamma-BHC	78.8		P	72 - 117
Gamma-Chlordane	45.2		P	43 - 106
Heptachlor	41.2		P	41 - 98.0
Heptachlor Epoxide	63.0		P	57 - 106
Hexachlorobenzene	36.9		P	36 - 99.0
Kepone	108		P	16 - 215
Lambda-Cyhalothrin	22.7		P	21 - 177
Methoprene	31.4		P	10 - 119
Methoxychlor	64.7		P	60 - 112
MGK-264	80.2		P	26 - 122
Mirex	22.1		P	10 - 169
Oxychlordane	53.7		P	43 - 105
PCB-1016	72.5		P	48 - 112
PCB-1260	71.1		P	44 - 118
Permethrin	33.3		P	24 - 148
Phenothrin	24.2		P	10 - 106
Piperonyl Butoxide	86.4		P	10 - 139
Prallethrin	62.8		P	17 - 109
Tau-Fluvalinate	25.1		P	13 - 131
Tetramethrin	69.4		P	10 - 132
Trans-Nonachlor	47.1		P	44 - 106
Triclosan Methyl	65.2		P	59 - 109
Trifluralin	50.2		P	44 - 101

Reference Method: EPA 8276

Batch ID: P427091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	77.4		P	61 - 116
Toxaphene	83.4		P	48 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P426930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	115		P	40 - 150
AMPA	104		P	40 - 150
Endothall	106		P	40 - 150
Glufosinate	99.3		P	40 - 150
Glyphosate	115		P	40 - 150
Sucralose	98.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.8		P	40 - 150
2,4,5-T	105		P	40 - 150
Acetaminophen	93.7		P	30 - 150
Acetamiprid	86.9		P	40 - 150
Afidopyropen	69.4		P	30 - 150
Bentazon	93.1		P	30 - 150
Benzovindiflupyr	83.3		P	40 - 150
Carbamazepine	92.9		P	40 - 150
Clothianidin	92.9		P	40 - 150
Dinotefuran	97.3		P	40 - 150
Diuron	81.1		P	40 - 150
Fenuron	91.2		P	40 - 150
Fluridone	73.4		P	40 - 150
Hydrocodone	99.7		P	40 - 150
Ibuprofen	72.1		P	40 - 150
Imazapyr	95.8		P	40 - 150
Imidacloprid	86.2		P	40 - 150
Linuron	75.5		P	40 - 150
Mandestrobin	85.9		P	40 - 150
MCPP	104		P	40 - 150
Naproxen	97.3		P	40 - 150
Primidone	83.1		P	40 - 150
Pyraclostrobin	74.4		P	40 - 150
Silvex	99.0		P	40 - 150
Thiamethoxam	92.8		P	40 - 150
Tolfenpyrad	49.7		P	30 - 150
Triclopyr	92.6		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P427347

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.3		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P427512

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	107		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P427358

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	91.7		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P427296

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.2		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427324

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393309	Chloride	96.5		P	90 - 110
2393339	Chloride	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393309	Sulfate	93.2		P	90 - 110
2393339	Sulfate	96.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427197

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393422	Ammonia-N	99.2	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393521	Kjeldahl Nitrogen	95.1	96.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427288

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393425	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393454	Total-P	102	96.8	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393506	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	121	119	P/P	26 - 165
2393506	Acetochlor	69.1	87.3	P/P	67 - 124
2393506	Alachlor	97.2	75.9	P/P	60 - 120
2393506	Avobenzone	154	160	P/P	37 - 178
2393506	Azinphos Methyl	56.4	74.6	P/P	40 - 292
2393506	Azoxystrobin	63.5	52.0	P/P	35 - 220
2393506	Bromacil	81.3	109	P/P	45 - 127
2393506	Butylate	38.8	29.9	P/P	20 - 83.0
2393506	Caffeine	90.3	87.6	P/P	10 - 194
2393506	Carbophenothion	51.5	42.7	F/F	57 - 127
2393506	Carfentrazone Ethyl	61.2	50.8	P/F	51 - 141
2393506	Chlorfenapyr	61.3	62.8	P/P	46 - 111
2393506	Chlorpyrifos Ethyl	73.0	70.6	P/P	52 - 120
2393506	Chlorpyrifos Methyl	63.5	69.3	P/P	63 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393506	Coumaphos	86.9	165	P/P	10 - 228
2393506	Cyanazine	201	147	P/P	59 - 241
2393506	Cyprodinil	106	107	P/P	47 - 146
2393506	Dechlorane 602	55.2	58.9	P/P	50 - 150
2393506	Dechlorane 603	54.4	58.4	P/P	50 - 150
2393506	Dechlorane Plus	121	113	P/P	50 - 150
2393506	Demeton	48.5	49.0	P/P	40 - 136
2393506	Diazinon	76.5	99.9	P/P	69 - 132
2393506	Difenoconazole	58.5	45.3	P/F	57 - 258
2393506	Dimethenamid	73.2	67.6	P/P	54 - 110
2393506	Dimethomorph	70.6	43.4	P/P	28 - 210
2393506	Disulfoton	59.1	66.3	P/P	43 - 133
2393506	Dithiopyr	79.8	66.6	P/P	39 - 116
2393506	EPTC	37.2	30.1	P/P	20 - 78.0
2393506	Ethion	48.3	66.7	P/P	17 - 119
2393506	Ethoprop	78.5	77.5	P/P	66 - 120
2393506	Etridiazole	41.8	32.5	P/P	28 - 96.0
2393506	Fenamiphos	95.3	87.9	P/P	41 - 126
2393506	Fenbuconazole	73.4	118	P/P	42 - 169
2393506	Fipronil	56.3	64.0	F/P	61 - 132
2393506	Fipronil Desulfinyl	64.6	48.3	P/F	56 - 132
2393506	Fipronil Sulfide	48.4	57.2	P/P	48 - 119
2393506	Fipronil Sulfone	76.6	67.9	P/P	42 - 131
2393506	Fluazifop-P-butyl	74.3	81.0	P/P	53 - 131
2393506	Fludioxonil	79.5	95.1	P/P	56 - 127
2393506	Flumioxazin	185	176	P/P	19 - 300
2393506	Flutolanil	91.7	78.9	P/P	41 - 127
2393506	Fluxapyroxad	49.1	29.8	P/F	42 - 172
2393506	Fonofos	84.6	95.2	P/P	59 - 113
2393506	Hexabromobenzene	138	124	P/P	50 - 150
2393506	Imazalil	53.0	45.3	P/P	21 - 283
2393506	Iprodione	52.7	53.7	P/P	43 - 150
2393506	Loratadine	95.8	102	P/P	23 - 201
2393506	Malathion	76.3	65.4	P/P	58 - 136
2393506	Metalaxyl	64.1	76.0	P/P	55 - 120
2393506	Metolachlor	69.8	52.5	P/F	57 - 121
2393506	Metribuzin	-25.3	61.1	F/P	58 - 294
2393506	Mevinphos	62.6	63.5	P/P	50 - 126
2393506	Molinate	46.0	51.6	P/P	42 - 93.0
2393506	Myclobutanil	92.8	83.7	P/P	55 - 125
2393506	Naled	42.0	53.8	P/P	18 - 200
2393506	Napropamide	64.6	52.2	P/P	39 - 110
2393506	Norflurazon	54.1	58.0	P/P	48 - 128
2393506	Octinoxate	132	122	P/P	21 - 159
2393506	Oxadiazon	63.8	73.8	P/P	43 - 112
2393506	Oxybenzone	136	128	P/P	41 - 142
2393506	Oxyfluorfen	96.2	83.2	P/P	64 - 153
2393506	Parathion Ethyl	63.3	71.0	F/P	69 - 114
2393506	Parathion Methyl	81.2	108	P/P	79 - 139
2393506	PBB-153	108	88.9	P/P	50 - 150
2393506	PBDE-47	127	121	P/P	27 - 144
2393506	PBDE-99	109	109	P/P	18 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393506	Pendimethalin	103	99.7	P/P	50 - 139
2393506	Pentabromotoluene	129	124	P/P	50 - 150
2393506	Phenytoin	67.4	62.1	P/P	10 - 146
2393506	Phorate	55.6	74.6	P/P	54 - 161
2393506	Prodiamine	69.6	64.0	P/P	30 - 161
2393506	Prometon	114	95.4	P/P	45 - 134
2393506	Prometryn	104	86.4	P/P	45 - 137
2393506	Pronamide	95.4	79.6	P/P	65 - 133
2393506	Propanil	55.4	51.8	P/P	49 - 142
2393506	Propargite	39.4	44.3	P/P	10 - 203
2393506	Propiconazole	58.8	45.9	P/P	38 - 146
2393506	Pyraflufen Ethyl	58.4	59.6	P/P	34 - 153
2393506	Pyridaben	108	138	P/P	12 - 192
2393506	Pyriproxyfen	38.1	31.6	P/F	33 - 180
2393506	Simazine	68.4	103	P/P	51 - 157
2393506	Stirophos	63.7	71.8	P/P	10 - 128
2393506	Sulfentrazone	88.7	98.4	P/P	53 - 186
2393506	Tebuconazole	62.3	69.8	P/P	10 - 133
2393506	Terbufos	64.8	72.4	F/P	65 - 139
2393506	Terbutylazine	88.5	99.1	P/P	66 - 117
2393506	Tetradecachloro-m-terphenyl	103	96.7	P/P	70 - 200
2393506	Thiobencarb	69.4	63.3	P/P	51 - 119
2393506	Tri-o-cresyl Phosphate	133	121	P/P	31 - 144
2393506	Triadimefon	68.8	58.0	P/P	48 - 119
2393506	Tris(1-chloro-2-propyl) phosphate (TCPP)	151	152	F/F	50 - 150
2393506	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	114	104	P/P	50 - 150
2393506	Tris(2-chloroethyl) phosphate (TCEP)	151	154	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P427091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392882	Aldrin	40.3	36.1	P/P	20 - 82.0
2392882	Alpha-BHC	80.4	71.5	P/P	71 - 109
2392882	Alpha-Chlordane	63.0	57.0	P/P	42 - 106
2392882	Beta-BHC	92.5	84.0	P/P	69 - 180
2392882	Beta-Cyfluthrin	69.4	54.2	P/P	18 - 175
2392882	Bifenthrin	58.0	44.1	P/P	21 - 128
2392882	Chlorothalonil	0.0	0.0	F/F	10 - 300
2392882	Cis-Nonachlor	56.6	49.2	P/P	34 - 106
2392882	Cypermethrin	68.3	54.6	P/P	22 - 158
2392882	Dacthal	82.6	76.9	P/P	54 - 116
2392882	DDD-p,p'	62.1	54.6	P/P	34 - 107
2392882	DDE-p,p'	62.1	54.6	P/P	33 - 110
2392882	DDT-p,p'	62.7	51.2	P/P	50 - 122
2392882	Delta-BHC	90.9	84.8	P/P	77 - 193
2392882	Deltamethrin	75.3	59.9	P/P	10 - 195
2392882	Dichlobenil	57.9	55.7	P/P	25 - 113
2392882	Dicofol	58.7	54.3	P/P	38 - 247
2392882	Dieldrin	66.2	59.7	P/P	45 - 118
2392882	Endosulfan I	66.2	59.2	P/P	51 - 106
2392882	Endosulfan II	71.4	71.8	P/P	37 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392882	Endosulfan Sulfate	72.0	60.3	P/P	43 - 132
2392882	Endrin	67.2	61.2	P/P	29 - 101
2392882	Endrin Aldehyde	64.7	55.4	P/P	19 - 110
2392882	Endrin Ketone	67.2	60.7	P/P	60 - 140
2392882	Esfenvalerate	68.2	52.5	P/P	26 - 199
2392882	Ethalfuralin	64.3	56.1	P/P	45 - 99.0
2392882	Fenpropathrin	66.2	53.4	P/P	35 - 120
2392882	Gamma-BHC	80.2	74.3	P/P	63 - 128
2392882	Gamma-Chlordane	59.9	51.6	P/P	40 - 104
2392882	Heptachlor	52.4	46.1	P/P	36 - 97.0
2392882	Heptachlor Epoxide	66.8	64.4	P/P	49 - 184
2392882	Hexachlorobenzene	51.5	43.6	P/P	39 - 96.0
2392882	Kepone	99.7	101	P/P	10 - 217
2392882	Lambda-Cyhalothrin	60.5	46.4	P/P	21 - 193
2392882	Methoprene	56.8	48.4	P/P	20 - 106
2392882	Methoxychlor	66.7	62.3	P/P	53 - 118
2392882	MGK-264	25.0	29.2	F/F	40 - 118
2392882	Mirex	50.7	36.9	P/P	26 - 92.0
2392882	Oxychlordane	66.3	54.4	P/P	44 - 99.0
2392882	Permethrin	64.3	50.2	P/P	33 - 182
2392882	Phenothrin	62.4	52.3	P/P	10 - 129
2392882	Piperonyl Butoxide	77.0	70.9	P/P	10 - 211
2392882	Prallethrin	63.3	59.1	P/P	24 - 113
2392882	Tau-Fluvalinate	63.0	46.0	P/P	14 - 149
2392882	Tetramethrin	82.1	79.4	P/P	17 - 151
2392882	Trans-Nonachlor	57.4	51.6	P/P	42 - 102
2392882	Triclosan Methyl	70.1	63.0	P/P	48 - 108
2392882	Trifluralin	66.1	54.3	P/P	47 - 96.0
2393385	PCB-1016	70.0	72.2	P/P	46 - 111
2393385	PCB-1260	72.8	73.1	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P427091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393385	Chlordane	73.3	69.3	P/P	53 - 126
2393385	Toxaphene	78.2	71.6	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P426930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393147	Acesulfame K	137	143	P/P	40 - 150
2393147	AMPA	96.6	95.2	P/P	40 - 150
2393147	Endothall	112	122	P/P	40 - 150
2393147	Glufosinate	136	132	P/P	40 - 150
2393147	Glyphosate	134	137	P/P	40 - 150
2393147	Sucralose	98.7	89.6	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P427187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393469	2,4-D	108	107	P/P	40 - 150
2393469	2,4,5-T	103	114	P/P	40 - 150
2393469	Acetaminophen	96.7	90.7	P/P	30 - 150
2393469	Acetamiprid	75.5	80.2	P/P	40 - 150
2393469	Afidopyropen	71.6	62.4	P/P	30 - 150
2393469	Bentazon	60.8	66.5	P/P	30 - 150
2393469	Benzovindiflupyr	78.7	82.1	P/P	40 - 150
2393469	Carbamazepine	69.7	75.9	P/P	40 - 150
2393469	Clothianidin	106	103	P/P	40 - 150
2393469	Dinotefuran	99.2	99.0	P/P	40 - 150
2393469	Diuron	62.2	67.5	P/P	40 - 150
2393469	Fenuron	68.6	71.9	P/P	40 - 150
2393469	Fluridone	76.8	62.8	P/P	40 - 150
2393469	Hydrocodone	95.2	95.3	P/P	40 - 150
2393469	Ibuprofen	60.7	72.3	P/P	40 - 150
2393469	Imazapyr	121	102	P/P	40 - 150
2393469	Imidacloprid	138	136	P/P	40 - 150
2393469	Linuron	77.1	71.5	P/P	40 - 150
2393469	Mandestrobin	84.4	85.2	P/P	40 - 150
2393469	MCCP	115	116	P/P	40 - 150
2393469	Naproxen	74.3	59.0	P/P	40 - 150
2393469	Primidone	96.6	93.5	P/P	40 - 150
2393469	Pyraclostrobin	77.9	76.0	P/P	40 - 150
2393469	Silvex	122	108	P/P	40 - 150
2393469	Thiamethoxam	111	113	P/P	40 - 150
2393469	Tolfenpyrad	49.7	51.9	P/P	30 - 150
2393469	Triclopyr	111	111	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P427296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393562	Fluoride	98.6	99.2	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427324

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393172	Organic Carbon	97.9	99.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P427017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393413	Color (true)	3.48	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427024

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393309	Turbidity	2.58	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393309	Chloride	0.848	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393309	Sulfate	1.04	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427197

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393422	Ammonia-N	0.546	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393521	Kjeldahl Nitrogen	0.728	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427288

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393425	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393454	Total-P	4.55	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393506	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.06	Spike	P	0 - 37
2393506	Acetochlor	23.3	Spike	P	0 - 28
2393506	Alachlor	24.6	Spike	P	0 - 30
2393506	Ametryn	23.1	Spike	P	0 - 32
2393506	Atrazine	18.7	Spike	P	0 - 41
2393506	Atrazine Desethyl	6.29	Spike	P	0 - 36
2393506	Avobenzone	3.93	Spike	P	0 - 36
2393506	Azinphos Methyl	27.8	Spike	P	0 - 75
2393506	Azoxystrobin	17.0	Spike	P	0 - 39
2393506	Bromacil	26.3	Spike	P	0 - 33
2393506	Butylate	25.8	Spike	P	0 - 44
2393506	Caffeine	2.99	Spike	P	0 - 74
2393506	Carbophenothion	18.6	Spike	P	0 - 25
2393506	Carfentrazone Ethyl	18.7	Spike	P	0 - 27
2393506	Chlorfenapyr	2.43	Spike	P	0 - 24
2393506	Chlorpyrifos Ethyl	3.29	Spike	P	0 - 26
2393506	Chlorpyrifos Methyl	8.68	Spike	P	0 - 26
2393506	Coumaphos	62.1	Spike	F	0 - 28
2393506	Cyanazine	30.7	Spike	P	0 - 48
2393506	Cyprodinil	0.600	Spike	P	0 - 29
2393506	Dechlorane 602	6.61	Spike	P	0 - 30
2393506	Dechlorane 603	7.04	Spike	P	0 - 30
2393506	Dechlorane Plus	6.64	Spike	P	0 - 30
2393506	Demeton	1.00	Spike	P	0 - 33
2393506	Diazinon	26.5	Spike	P	0 - 29
2393506	Difenoconazole	25.4	Spike	P	0 - 34
2393506	Dimethenamid	7.87	Spike	P	0 - 39
2393506	Dimethomorph	47.8	Spike	P	0 - 51
2393506	Disulfoton	11.5	Spike	P	0 - 30
2393506	Dithiopyr	17.9	Spike	P	0 - 26
2393506	EPTC	21.2	Spike	P	0 - 43
2393506	Ethion	31.9	Spike	P	0 - 79
2393506	Ethoprop	1.22	Spike	P	0 - 29
2393506	Etridiazole	25.1	Spike	P	0 - 33
2393506	Fenamiphos	8.16	Spike	P	0 - 40
2393506	Fenbuconazole	46.5	Spike	P	0 - 74
2393506	Fipronil	12.8	Spike	P	0 - 29
2393506	Fipronil Desulfinyl	28.8	Spike	P	0 - 32
2393506	Fipronil Sulfide	16.7	Spike	P	0 - 30
2393506	Fipronil Sulfone	12.0	Spike	P	0 - 33
2393506	Fluazifop-P-butyl	8.62	Spike	P	0 - 38
2393506	Fludioxonil	17.9	Spike	P	0 - 29
2393506	Flumioxazin	5.04	Spike	P	0 - 51
2393506	Flutolanil	15.1	Spike	P	0 - 25
2393506	Fluxapyroxad	37.8	Spike	P	0 - 45
2393506	Fonofos	11.8	Spike	P	0 - 27
2393506	Hexabromobenzene	10.2	Spike	P	0 - 30
2393506	Hexazinone	0.562	Spike	P	0 - 30
2393506	Imazalil	15.6	Spike	P	0 - 100
2393506	Iprodione	1.86	Spike	P	0 - 33
2393506	Loratadine	6.27	Spike	P	0 - 56

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393506	Malathion	13.5	Spike	P	0 - 37
2393506	Metalaxyl	12.2	Spike	P	0 - 40
2393506	Metolachlor	12.9	Spike	P	0 - 29
2393506	Metribuzin	166	Spike	F	0 - 45
2393506	Mevinphos	1.47	Spike	P	0 - 29
2393506	Molinate	11.6	Spike	P	0 - 33
2393506	Myclobutanil	10.3	Spike	P	0 - 26
2393506	Naled	24.7	Spike	P	0 - 37
2393506	Napropamide	21.2	Spike	P	0 - 44
2393506	Norflurazon	6.93	Spike	P	0 - 30
2393506	Octinoxate	8.05	Spike	P	0 - 45
2393506	Oxadiazon	14.5	Spike	P	0 - 28
2393506	Oxybenzone	6.37	Spike	P	0 - 46
2393506	Oxyfluorfen	14.5	Spike	P	0 - 28
2393506	Parathion Ethyl	11.5	Spike	P	0 - 31
2393506	Parathion Methyl	28.6	Spike	P	0 - 29
2393506	PBB-153	19.5	Spike	P	0 - 30
2393506	PBDE-47	5.26	Spike	P	0 - 36
2393506	PBDE-99	0.152	Spike	P	0 - 40
2393506	Pendimethalin	3.08	Spike	P	0 - 33
2393506	Pentabromotoluene	3.42	Spike	P	0 - 30
2393506	Phenytol	8.23	Spike	P	0 - 100
2393506	Phorate	29.1	Spike	P	0 - 36
2393506	Prodiamine	8.45	Spike	P	0 - 71
2393506	Prometon	17.8	Spike	P	0 - 36
2393506	Prometryn	18.9	Spike	P	0 - 28
2393506	Pronamide	18.1	Spike	P	0 - 24
2393506	Propanil	6.65	Spike	P	0 - 28
2393506	Propargite	11.7	Spike	P	0 - 43
2393506	Propiconazole	12.2	Spike	P	0 - 33
2393506	Pyraflufen Ethyl	1.99	Spike	P	0 - 29
2393506	Pyridaben	24.8	Spike	P	0 - 30
2393506	Pyriproxyfen	18.9	Spike	P	0 - 79
2393506	Simazine	25.9	Spike	P	0 - 29
2393506	Stiropfos	11.9	Spike	P	0 - 61
2393506	Sulfentrazone	10.4	Spike	P	0 - 33
2393506	Tebuconazole	11.4	Spike	P	0 - 69
2393506	Terbufos	11.1	Spike	P	0 - 29
2393506	Terbuthylazine	11.3	Spike	P	0 - 32
2393506	Tetradecachloro-m-terphenyl	6.67	Spike	P	0 - 30
2393506	Thiobencarb	9.14	Spike	P	0 - 26
2393506	Tri-o-cresyl Phosphate	9.64	Spike	P	0 - 33
2393506	Triadimefon	17.0	Spike	P	0 - 28
2393506	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.216	Spike	P	0 - 30
2393506	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	9.02	Spike	P	0 - 30
2393506	Tris(2-chloroethyl) phosphate (TCEP)	2.12	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P427091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392882	Aldrin	11.1	Spike	P	0 - 41
2392882	Alpha-BHC	11.7	Spike	P	0 - 25
2392882	Alpha-Chlordane	9.95	Spike	P	0 - 33
2392882	Beta-BHC	9.67	Spike	P	0 - 36
2392882	Beta-Cyfluthrin	24.7	Spike	P	0 - 42
2392882	Bifenthrin	27.2	Spike	P	0 - 53
2392882	Cis-Nonachlor	14.0	Spike	P	0 - 29
2392882	Cypermethrin	22.3	Spike	P	0 - 40
2392882	Dacthal	7.13	Spike	P	0 - 26
2392882	DDD-p,p'	12.9	Spike	P	0 - 39
2392882	DDE-p,p'	12.7	Spike	P	0 - 33
2392882	DDT-p,p'	20.2	Spike	P	0 - 40
2392882	Delta-BHC	6.95	Spike	P	0 - 37
2392882	Deltamethrin	22.7	Spike	P	0 - 100
2392882	Dichlobenil	3.87	Spike	P	0 - 40
2392882	Dicofol	7.66	Spike	P	0 - 31
2392882	Dieldrin	10.3	Spike	P	0 - 27
2392882	Endosulfan I	11.2	Spike	P	0 - 23
2392882	Endosulfan II	0.574	Spike	P	0 - 28
2392882	Endosulfan Sulfate	17.7	Spike	P	0 - 38
2392882	Endrin	9.31	Spike	P	0 - 63
2392882	Endrin Aldehyde	15.5	Spike	P	0 - 60
2392882	Endrin Ketone	10.1	Spike	P	0 - 37
2392882	Esfenvalerate	26.1	Spike	P	0 - 52
2392882	Ethalfuralin	13.5	Spike	P	0 - 23
2392882	Fenpropathrin	21.6	Spike	P	0 - 32
2392882	Gamma-BHC	7.57	Spike	P	0 - 17
2392882	Gamma-Chlordane	15.0	Spike	P	0 - 40
2392882	Heptachlor	12.9	Spike	P	0 - 29
2392882	Heptachlor Epoxide	3.67	Spike	P	0 - 25
2392882	Hexachlorobenzene	16.6	Spike	P	0 - 36
2392882	Kepone	1.49	Spike	P	0 - 93
2392882	Lambda-Cyhalothrin	26.3	Spike	P	0 - 55
2392882	Methoprene	16.0	Spike	P	0 - 53
2392882	Methoxychlor	6.81	Spike	P	0 - 29
2392882	MGK-264	15.3	Spike	P	0 - 35
2392882	Mirex	31.5	Spike	P	0 - 46
2392882	Oxychlordane	19.7	Spike	P	0 - 29
2392882	Permethrin	24.6	Spike	P	0 - 44
2392882	Phenothrin	17.6	Spike	P	0 - 56
2392882	Piperonyl Butoxide	8.25	Spike	P	0 - 100
2392882	Prallethrin	6.86	Spike	P	0 - 42
2392882	Tau-Fluvalinate	31.3	Spike	P	0 - 54
2392882	Tetramethrin	3.39	Spike	P	0 - 51
2392882	Trans-Nonachlor	10.7	Spike	P	0 - 37
2392882	Triclosan Methyl	10.7	Spike	P	0 - 31
2392882	Trifluralin	19.6	Spike	P	0 - 30
2393385	PCB-1016	3.07	Spike	P	0 - 32
2393385	PCB-1260	0.457	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P427091

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393385	Chlordane	5.57	Spike	P	0 - 25
2393385	Toxaphene	8.81	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P426930

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393147	Acesulfame K	4.02	Spike	P	0 - 30
2393147	AMPA	1.26	Spike	P	0 - 30
2393147	Endothall	8.89	Spike	P	0 - 30
2393147	Glufosinate	3.42	Spike	P	0 - 30
2393147	Glyphosate	1.72	Spike	P	0 - 30
2393147	Sucralose	6.96	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P427187

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393469	2,4-D	0.488	Spike	P	0 - 30
2393469	2,4,5-T	10.2	Spike	P	0 - 30
2393469	Acetaminophen	6.42	Spike	P	0 - 30
2393469	Acetamiprid	6.01	Spike	P	0 - 30
2393469	Afidopyropen	13.7	Spike	P	0 - 30
2393469	Bentazon	6.82	Spike	P	0 - 30
2393469	Benzovindiflupyr	4.17	Spike	P	0 - 30
2393469	Carbamazepine	8.42	Spike	P	0 - 30
2393469	Clothianidin	2.82	Spike	P	0 - 30
2393469	Dinotefuran	0.222	Spike	P	0 - 30
2393469	Diuron	8.15	Spike	P	0 - 30
2393469	Fenuron	4.69	Spike	P	0 - 30
2393469	Fluridone	8.41	Spike	P	0 - 30
2393469	Hydrocodone	0.133	Spike	P	0 - 30
2393469	Ibuprofen	17.4	Spike	P	0 - 30
2393469	Imazapyr	10.7	Spike	P	0 - 30
2393469	Imidacloprid	0.901	Spike	P	0 - 30
2393469	Linuron	7.52	Spike	P	0 - 30
2393469	Mandestrobin	0.856	Spike	P	0 - 30
2393469	MCPP	0.873	Spike	P	0 - 30
2393469	Naproxen	22.8	Spike	P	0 - 30
2393469	Primidone	3.25	Spike	P	0 - 30
2393469	Pyraclostrobin	2.50	Spike	P	0 - 30
2393469	Silvex	11.6	Spike	P	0 - 30
2393469	Thiamethoxam	1.74	Spike	P	0 - 30
2393469	Tolfenpyrad	4.22	Spike	P	0 - 30
2393469	Triclopyr	0.274	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P427347

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393743	Total Alkalinity	1.06	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P427512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393123	TDS	3.13	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P427296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393562	Fluoride	0.483	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P427324

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393172	Organic Carbon	0.960	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2393463
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	76.9	P	29 - 130
EPA 8270E	Decachlorobiphenyl	68.0	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	34.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	34.9	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	44.7	P	30 - 101
EPA 8276	PCNB	66.9	P	48 - 121

Lab Sample ID: 2393464
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	120	P	20 - 200
EPA 8270E	Simazine-d10	102	P	62 - 142
EPA 8270E	Terbufos-d10	110	P	58 - 132
EPA 8270E	Terphenyl-d14	106	P	52 - 137

Lab Sample ID: 2393465
Field Sample ID: G2NE1222

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	116	P	20 - 200
EPA 8270E	Simazine-d10	94.9	P	62 - 142
EPA 8270E	Terbufos-d10	110	P	58 - 132
EPA 8270E	Terphenyl-d14	109	P	52 - 137

Lab Sample ID: 2393466
Field Sample ID: FB_03092023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	97.3	P	20 - 200
EPA 8270E	Simazine-d10	91.6	P	62 - 142
EPA 8270E	Terbufos-d10	104	P	58 - 132
EPA 8270E	Terphenyl-d14	110	P	52 - 137

Lab Sample ID: 2393469
Field Sample ID: 20030688

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	126	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	81.2	P	30 - 160
EPA 8321B	Diuron-d6	65.4	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	31.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.1	P	30 - 160
EPA 8321B	Primidone-d5	98.2	P	30 - 160
EPA 8321B	Sucralose-d6	50.3	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A117935

Included Lab Sample IDs: 2393453

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.7	98.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117938

Included Lab Sample IDs: 2393453

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	100	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A117942

Included Lab Sample IDs: 2393469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	112	105	P/P	60 - 160
Endothall	101		P	60 - 160
Glufosinate	99.3	114	P/P	60 - 160
Glyphosate	101	107	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A117943

Included Lab Sample IDs: 2393469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	112	112	P/P	60 - 160
Sucralose	97.7	96.9	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118015

Included Lab Sample IDs: 2393454

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	96.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118020

Included Lab Sample IDs: 2393454

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	98.9	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A118031

Included Lab Sample IDs: 2393464, 2393465, 2393466

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.9		P	80 - 120
Avobenzene	101		P	80 - 120
Dechlorane 602	95.3		P	80 - 120
Dechlorane 603	97.6		P	80 - 120
Dechlorane Plus	99.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A118031

Included Lab Sample IDs: 2393464, 2393465, 2393466

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexabromobenzene	92.0		P	80 - 120
Octinoxate	95.0		P	80 - 120
Oxybenzone	95.5		P	80 - 120
PBB-153	97.6		P	80 - 120
PBDE-47	93.9		P	80 - 120
PBDE-99	95.2		P	80 - 120
Pentabromotoluene	93.6		P	80 - 120
Tetradecachloro-m-terphenyl	104		P	80 - 120
Tri-o-cresyl Phosphate	94.4		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	94.9		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	92.9		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118051

Included Lab Sample IDs: 2393454

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

Reference Method: SM 4500-F- C-2011

Run ID: A118053

Included Lab Sample IDs: 2393453

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118063

Included Lab Sample IDs: 2393454

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.1	105	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A118072

Included Lab Sample IDs: 2393454

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.9	98.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A118077

Included Lab Sample IDs: 2393453

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.1	93.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276
Run ID: A118091
Included Lab Sample IDs: 2393463

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.6		P	80 - 120
Toxaphene	98.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118100
Included Lab Sample IDs: 2393464, 2393465, 2393466

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.5		P	80 - 120
Alachlor	93.1		P	80 - 120
Ametryn	95.0		P	80 - 120
Atrazine	94.5		P	80 - 120
Atrazine Desethyl	115		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	99.3		P	80 - 120
Butylate	100		P	80 - 120
Caffeine	100		P	80 - 120
Carbophenothion	99.8		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	106		P	80 - 120
Chlorpyrifos Ethyl	99.2		P	80 - 120
Chlorpyrifos Methyl	99.7		P	80 - 120
Coumaphos	84.8		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	106		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	84.8		P	80 - 120
Difenoconazole	111		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	102		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	98.8		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	114		P	80 - 120
Ethoprop	87.5		P	80 - 120
Etridiazole	95.8		P	80 - 120
Fenamiphos	109		P	80 - 120
Fenbuconazole	91.6		P	80 - 120
Fipronil	95.2		P	80 - 120
Fipronil Desulfinyl	92.1		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	97.6		P	80 - 120
Fludioxonil	96.3		P	80 - 120
Flumioxazin	80.9		P	80 - 120
Flutolanil	110		P	80 - 120
Fluxapyroxad	111		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	99.2		P	80 - 120
Imazalil	95.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A118100

Included Lab Sample IDs: 2393464, 2393465, 2393466

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iprodione	106		P	80 - 120
Loratadine	97.8		P	80 - 120
Malathion	95.2		P	80 - 120
Metalaxyl	97.3		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	93.1		P	80 - 120
Mevinphos	85.9		P	80 - 120
Molinate	105		P	80 - 120
Myclobutanil	100		P	80 - 120
Naled	88.2		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	96.4		P	80 - 120
Oxyfluorfen	89.8		P	80 - 120
Parathion Ethyl	111		P	80 - 120
Parathion Methyl	98.4		P	80 - 120
Pendimethalin	91.8		P	80 - 120
Phenytoin	96.4		P	80 - 120
Phorate	91.2		P	80 - 120
Prodiamine	90.0		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	96.5		P	80 - 120
Pronamide	96.6		P	80 - 120
Propanil	104		P	80 - 120
Propargite	95.0		P	80 - 120
Propiconazole	106		P	80 - 120
Pyraflufen Ethyl	96.2		P	80 - 120
Pyridaben	95.0		P	80 - 120
Pyriproxyfen	116		P	80 - 120
Simazine	104		P	80 - 120
Stirophos	99.3		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	91.2		P	80 - 120
Terbufos	107		P	80 - 120
Terbuthylazine	99.3		P	80 - 120
Thiobencarb	103		P	80 - 120
Triadimefon	94.0		P	80 - 120

Reference Method: EPA 8270E

Run ID: A118114

Included Lab Sample IDs: 2393464, 2393465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	87.6		P	80 - 120
Difenoconazole	108		P	80 - 120
Ethoprop	96.8		P	80 - 120
Fludioxonil	110		P	80 - 120
Fluxapyroxad	117		P	80 - 120
Metolachlor	120		P	80 - 120
Metribuzin	119		P	80 - 120
Pendimethalin	96.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118119
Included Lab Sample IDs: 2393463

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	94.0		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A118124
Included Lab Sample IDs: 2393453

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.6	97.3	P/P	90 - 110
Sulfate	97.2	97.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118127
Included Lab Sample IDs: 2393463

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.9		P	80 - 120
Alpha-BHC	108		P	80 - 120
Alpha-Chlordane	90.5		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	99.9		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	95.6		P	80 - 120
Cis-Nonachlor	112		P	80 - 120
Cypermethrin	103		P	80 - 120
Dacthal	96.7		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	111		P	80 - 120
Delta-BHC	109		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	109		P	80 - 120
Dicofol	95.2		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	108		P	80 - 120
Endosulfan II	108		P	80 - 120
Endosulfan Sulfate	103		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	93.9		P	80 - 120
Endrin Ketone	113		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	98.2		P	80 - 120
Fenpropathrin	96.9		P	80 - 120
Gamma-BHC	105		P	80 - 120
Gamma-Chlordane	104		P	80 - 120
Heptachlor	99.8		P	80 - 120
Heptachlor Epoxide	99.5		P	80 - 120
Hexachlorobenzene	94.1		P	80 - 120
Kepone	83.5		P	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	113		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118127
Included Lab Sample IDs: 2393463

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	101		P	80 - 120
MGK-264	109		P	80 - 120
Mirex	110		P	80 - 120
Oxychlordane	111		P	80 - 120
Permethrin	106		P	80 - 120
Phenothrin	97.4		P	80 - 120
Piperonyl Butoxide	113		P	80 - 120
Prallethrin	116		P	80 - 120
Tau-Fluvalinate	99.8		P	80 - 120
Tetramethrin	105		P	80 - 120
Trans-Nonachlor	108		P	80 - 120
Triclosan Methyl	104		P	80 - 120
Trifluralin	103		P	80 - 120

Reference Method: EPA 8321B
Run ID: A118309
Included Lab Sample IDs: 2393469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.6	98.2	P/P	50 - 150
2,4,5-T	99.1	101	P/P	50 - 150
Acetaminophen	104	96.3	P/P	60 - 160
Acetamiprid	111	107	P/P	50 - 150
Afidopyropen	104	91.3	P/P	50 - 150
Bentazon	126	108	P/P	50 - 160
Benzovindiflupyr	102	103	P/P	50 - 150
Carbamazepine	94.4	105	P/P	60 - 150
Clothianidin	104	107	P/P	60 - 150
Dinotefuran	109	107	P/P	50 - 150
Diuron	105	104	P/P	60 - 160
Fenuron	104	104	P/P	60 - 150
Fluridone	96.0	92.4	P/P	60 - 160
Hydrocodone	110	118	P/P	60 - 150
Ibuprofen	114	89.0	P/P	50 - 160
Imazapyr	112	103	P/P	50 - 150
Imidacloprid	99.6	94.7	P/P	60 - 150
Linuron	95.5	122	P/P	60 - 150
Mandestrobin	98.2	107	P/P	50 - 150
MCPP	109	106	P/P	50 - 150
Naproxen	127	117	P/P	50 - 160
Primidone	92.6	104	P/P	60 - 150
Pyraclostrobin	106	103	P/P	60 - 150
Silvex	113	92.4	P/P	50 - 150
Thiamethoxam	105	112	P/P	50 - 150
Tolfenpyrad	98.6	105	P/P	60 - 150
Triclopyr	96.0	97.5	P/P	50 - 150

* 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)	98.1				3.48	
EPA 180.1 Rev. 2.0	Turbidity	101				2.58	
EPA 300.0 Rev. 2.1	Chloride	99.7	96.5	98.8		0.848	
	Sulfate	98.1	93.2	96.7		1.04	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	99.2	100			0.546
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	95.1	96.5			0.728
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	103	102			0.487
EPA 365.1 Rev. 2.0	Total-P	99.6	102	96.8			4.55
EPA 8270E	2-Ethylhexyl	69.9	121	119			1.06
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	76.4	87.3	69.1			23.3
	Alachlor	94.4	97.2	75.9			24.6
	Aldrin	29.8	40.3	36.1			11.1
	Alpha-BHC	85.0	80.4	71.5			11.7
	Alpha-Chlordane	50.9	63.0	57.0			9.95
	Ametryn	271					23.1
	Atrazine	57.4					18.7
	Atrazine Desethyl	85.1					6.29
	Avobenzone	81.0	154	160			3.93
	Azinphos Methyl	56.9	56.4	74.6			27.8
	Azoxystrobin	47.2	52.0	63.5			17.0
	Beta-BHC	89.4	92.5	84.0			9.67
	Beta-Cyfluthrin	31.5	69.4	54.2			24.7
	Bifenthrin	21.3	58.0	44.1			27.2
	Bromacil	100	81.3	109			26.3
	Butylate	48.7	29.9	38.8			25.8
	Caffeine	96.1	87.6	90.3			2.99
	Carbophenothion	69.5	51.5	42.7			18.6
	Carfentrazone Ethyl	81.4	61.2	50.8			18.7
	Chlorfenapyr	53.6	62.8	61.3			2.43
	Chlorothalonil	65.1	0.0	0.0			
	Chlorpyrifos Ethyl	100	70.6	73.0			3.29
	Chlorpyrifos Methyl	90.4	69.3	63.5			8.68
	Cis-Nonachlor	46.3	56.6	49.2			14.0
	Coumaphos	109	86.9	165			62.1
	Cyanazine	174	147	201			30.7
	Cypermethrin	37.6	68.3	54.6			22.3
	Cyprodinil	92.2	107	106			0.600
	Dacthal	77.6	82.6	76.9			7.13
	DDD-p,p'	57.2	62.1	54.6			12.9
	DDE-p,p'	49.8	62.1	54.6			12.7
	DDT-p,p'	54.0	62.7	51.2			20.2
	Dechlorane 602	85.1	55.2	58.9			6.61
	Dechlorane 603	86.6	54.4	58.4			7.04
	Dechlorane Plus	86.6	121	113			6.64
	Delta-BHC	88.7	90.9	84.8			6.95
	Deltamethrin	37.8	75.3	59.9			22.7
	Demeton	49.5	49.0	48.5			1.00
	Diazinon	74.0	99.9	76.5			26.5
	Dichlobenil	61.1	57.9	55.7			3.87
	Dicofol	56.6	58.7	54.3			7.66
	Dieldrin	63.8	66.2	59.7			10.3
	Difenoconazole	76.1	58.5	45.3			25.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Dimethenamid	84.3	67.6	73.2			7.87
	Dimethomorph	78.8	43.4	70.6			47.8
	Disulfoton	56.9	66.3	59.1			11.5
	Dithiopyr	90.1	66.6	79.8			17.9
	Endosulfan I	64.6	66.2	59.2			11.2
	Endosulfan II	83.5	71.4	71.8			0.574
	Endosulfan Sulfate	79.2	72.0	60.3			17.7
	Endrin	67.6	67.2	61.2			9.31
	Endrin Aldehyde	68.4	64.7	55.4			15.5
	Endrin Ketone	77.0	67.2	60.7			10.1
	EPTC	38.6	30.1	37.2			21.2
	Esfenvalerate	34.0	68.2	52.5			26.1
	Ethalfuralin	53.3	64.3	56.1			13.5
	Ethion	46.4	66.7	48.3			31.9
	Ethoprop	77.0	77.5	78.5			1.22
	Etridiazole	56.1	32.5	41.8			25.1
	Fenamiphos	69.1	87.9	95.3			8.16
	Fenbuconazole	24.8	118	73.4			46.5
	Fenpropathrin	36.2	66.2	53.4			21.6
	Fipronil	70.2	56.3	64.0			12.8
	Fipronil Desulfinyl	63.0	64.6	48.3			28.8
	Fipronil Sulfide	63.1	57.2	48.4			16.7
	Fipronil Sulfone	77.4	67.9	76.6			12.0
	Fluazifop-P-butyl	62.6	81.0	74.3			8.62
	Fludioxonil	67.1	95.1	79.5			17.9
	Flumioxazin	112	176	185			5.04
	Flutolanil	81.6	78.9	91.7			15.1
	Fluxapyroxad	102	49.1	29.8			37.8
	Fonofos	82.3	95.2	84.6			11.8
	Gamma-BHC	78.8	80.2	74.3			7.57
	Gamma-Chlordane	45.2	59.9	51.6			15.0
	Heptachlor	41.2	52.4	46.1			12.9
	Heptachlor Epoxide	63.0	66.8	64.4			3.67
	Hexabromobenzene	123	138	124			10.2
	Hexachlorobenzene	36.9	51.5	43.6			16.6
	Hexazinone	58.7					0.562
	Imazalil	46.8	45.3	53.0			15.6
	Iprodione	110	52.7	53.7			1.86
	Kepone	108	99.7	101			1.49
	Lambda-Cyhalothrin	22.7	60.5	46.4			26.3
	Loratadine	103	95.8	102			6.27
	Malathion	70.2	65.4	76.3			13.5
	Metalaxyl	67.7	76.0	64.1			12.2
	Methoprene	31.4	56.8	48.4			16.0
	Methoxychlor	64.7	66.7	62.3			6.81
	Metolachlor	87.3	69.8	52.5			12.9
	Metribuzin	33.3	61.1	-25.3			166
	Mevinphos	52.1	63.5	62.6			1.47
	MGK-264	80.2	25.0	29.2			15.3
	Mirex	22.1	50.7	36.9			31.5
	Molinate	47.4	51.6	46.0			11.6
	Myclobutanil	99.2	83.7	92.8			10.3
	Naled	34.5	53.8	42.0			24.7
	Napropamide	66.0	52.2	64.6			21.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Norflurazon	55.1	58.0	54.1			6.93
	Octinoxate	124	132	122			8.05
	Oxadiazon	60.1	73.8	63.8			14.5
	Oxybenzone	150	136	128			6.37
	Oxychlordane	53.7	66.3	54.4			19.7
	Oxyfluorfen	108	83.2	96.2			14.5
	Parathion Ethyl	43.2	63.3	71.0			11.5
	Parathion Methyl	78.9	108	81.2			28.6
	PBB-153	76.9	108	88.9			19.5
	PBDE-47	116	127	121			5.26
	PBDE-99	61.6	109	109			0.152
	PCB-1016	72.5	70.0	72.2			3.07
	PCB-1260	71.1	72.8	73.1			0.457
	Pendimethalin	115	99.7	103			3.08
	Pentabromotoluene	131	129	124			3.42
	Permethrin	33.3	64.3	50.2			24.6
	Phenothrin	24.2	62.4	52.3			17.6
	Phenytoin	74.0	62.1	67.4			8.23
	Phorate	62.0	74.6	55.6			29.1
	Piperonyl Butoxide	86.4	77.0	70.9			8.25
	Prallethrin	62.8	63.3	59.1			6.86
	Prodiamine	103	69.6	64.0			8.45
	Prometon	71.7	114	95.4			17.8
	Prometryn	105	104	86.4			18.9
	Pronamide	72.8	95.4	79.6			18.1
	Propanil	72.3	55.4	51.8			6.65
	Propargite	29.3	39.4	44.3			11.7
	Propiconazole	93.6	58.8	45.9			12.2
	Pyraflufen Ethyl	56.5	58.4	59.6			1.99
	Pyridaben	84.1	108	138			24.8
	Pyriproxyfen	34.0	38.1	31.6			18.9
	Simazine	50.7	68.4	103			25.9
	Stirophos	54.7	63.7	71.8			11.9
	Sulfentrazone	110	88.7	98.4			10.4
	Tau-Fluvalinate	25.1	63.0	46.0			31.3
	Tebuconazole	49.6	62.3	69.8			11.4
	Terbufos	63.5	64.8	72.4			11.1
	Terbutylazine	67.5	88.5	99.1			11.3
	Tetradecachloro-m-terphenyl	112	103	96.7			6.67
	Tetramethrin	69.4	82.1	79.4			3.39
	Thiobencarb	82.7	69.4	63.3			9.14
	Trans-Nonachlor	47.1	57.4	51.6			10.7
	Tri-o-cresyl Phosphate	137	133	121			9.64
	Triadimefon	69.3	68.8	58.0			17.0
	Triclosan Methyl	65.2	70.1	63.0			10.7
	Trifluralin	50.2	66.1	54.3			19.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	134	151	152			0.216
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	123	114	104			9.02
	Tris(2-chloroethyl) phosphate (TCEP)	205	151	154			2.12
EPA 8276	Chlordane	77.4	73.3	69.3			5.57
	Toxaphene	83.4	78.2	71.6			8.81

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	2,4-D	99.8	107	108		0.488
	2,4,5-T	105	114	103		10.2
	Acesulfame K	115	137	143		4.02
	Acetaminophen	93.7	90.7	96.7		6.42
	Acetamiprid	86.9	80.2	75.5		6.01
	Afidopyropen	69.4	62.4	71.6		13.7
	AMPA	104	96.6	95.2		1.26
	Bentazon	93.1	66.5	60.8		6.82
	Benzovindiflupyr	83.3	82.1	78.7		4.17
	Carbamazepine	92.9	75.9	69.7		8.42
	Clothianidin	92.9	103	106		2.82
	Dinotefuran	97.3	99.0	99.2		0.222
	Diuron	81.1	67.5	62.2		8.15
	Endothall	106	112	122		8.89
	Fenuron	91.2	71.9	68.6		4.69
	Fluridone	73.4	62.8	76.8		8.41
	Glufosinate	99.3	136	132		3.42
	Glyphosate	115	134	137		1.72
	Hydrocodone	99.7	95.3	95.2		0.133
	Ibuprofen	72.1	60.7	72.3		17.4
	Imazapyr	95.8	102	121		10.7
	Imidacloprid	86.2	136	138		0.901
	Linuron	75.5	71.5	77.1		7.52
	Mandestrobin	85.9	85.2	84.4		0.856
	MCPP	104	116	115		0.873
	Naproxen	97.3	59.0	74.3		22.8
	Primidone	83.1	93.5	96.6		3.25
	Pyraclostrobin	74.4	76.0	77.9		2.50
	Silvex	99.0	108	122		11.6
	Sucralose	98.0	98.7	89.6		6.96
	Thiamethoxam	92.8	113	111		1.74
	Tolfenpyrad	49.7	51.9	49.7		4.22
	Triclopyr	92.6	111	111		0.274
SM 2320 B-2011	Total Alkalinity	96.3				1.06
SM 2540 C-2015	TDS	107				3.13
SM 2540 D-2015	TSS	91.7				
SM 4500-F- C-2011	Fluoride	96.2	98.6	99.2		0.483
SM 5310 B-2011	Organic Carbon	96.6	97.9	99.2		0.960

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2393453
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2393453
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2393453
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2393453
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2393454
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2393454
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2393454
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2393454
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2393464, 2393465, 2393466
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2393463
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2393464, 2393465, 2393466

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8270E	PCBs in water matrices by GC/MS/MS	2393463
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2393463
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2393469
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2393453
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2393453
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2393453
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2393453
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2393454

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	03/10/2023			03/10/2023 14:12	Alexis Price	2393453
EPA 180.1 Rev. 2.0	03/10/2023			03/10/2023 13:38	Anna M. Plaviak	2393453
EPA 300.0 Rev. 2.1	03/10/2023			03/22/2023 18:38	Judith K. Clark	2393453
EPA 350.1 Rev. 2.0	03/10/2023			03/15/2023 14:38	Khloe J Berg	2393454
EPA 351.2 Rev. 2.0	03/10/2023	03/16/2023 15:00	Simonne.V. Calhoun	03/17/2023 13:06	Judith K. Clark	2393454
EPA 353.2 Rev. 2.0	03/10/2023			03/17/2023 09:52	Beverly Y. Sanders	2393454
EPA 365.1 Rev. 2.0	03/10/2023	03/15/2023 13:09	Adam P Silver	03/15/2023 17:16	James L Waggeberby	2393454
EPA 8270E	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/15/2023 20:25	Arthur Maknenko	2393464
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/15/2023 20:51	Arthur Maknenko	2393465
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/15/2023 21:17	Arthur Maknenko	2393466
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/16/2023 00:36	Michael Poppell	2393464
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/16/2023 01:05	Michael Poppell	2393465
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/16/2023 01:34	Michael Poppell	2393466
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/20/2023 20:03	Michael Poppell	2393464
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/20/2023 20:29	Michael Poppell	2393464
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/20/2023 20:54	Michael Poppell	2393464
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/20/2023 21:20	Michael Poppell	2393465
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/20/2023 21:46	Michael Poppell	2393465
	03/10/2023	03/13/2023 09:00	Fe-Val Siddell	03/20/2023 22:12	Michael Poppell	2393465
	03/10/2023	03/13/2023 09:00	Julie Wi	03/18/2023 01:55	Julie Wi	2393463
	03/10/2023	03/13/2023 09:00	Julie Wi	03/22/2023 05:15	Julie Wi	2393463
EPA 8276	03/10/2023	03/13/2023 09:00	Julie Wi	03/18/2023 11:49	Lipi Saha	2393463
EPA 8321B	03/10/2023	03/10/2023 10:00	Manjita Shrestha	03/10/2023 15:52	Manjita Shrestha	2393469
	03/10/2023	03/10/2023 10:00	Manjita Shrestha	03/11/2023 02:05	Manjita Shrestha	2393469
	03/10/2023	03/16/2023 09:00	Hoor Shaik	03/29/2023 20:42	Juyoung Kim	2393469
SM 2320 B-2011	03/10/2023			03/17/2023 22:19	Dale L. Simmons	2393453
SM 2540 C-2015	03/10/2023			03/14/2023 16:02	Yijie Li	2393453
SM 2540 D-2015	03/10/2023			03/14/2023 16:02	Yijie Li	2393453
SM 4500-F- C-2011	03/10/2023			03/17/2023 03:57	Dale L. Simmons	2393453
SM 5310 B-2011	03/10/2023			03/16/2023 03:15	Elise M. Gillis	2393454