

Chemical Analysis Report

SO-DIST-2022-09-08-01

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

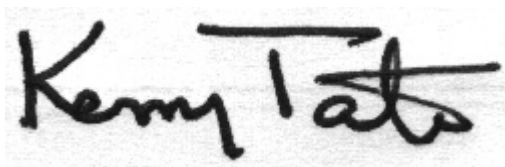
Event Description: **2022 SMP : Okee Canals**
Request ID: **RQ-2022-09-05-26**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: William Mullen

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

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

Date Certified: 06-OCT-2022 09:59

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

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, 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: Indian Prairie Canal @ SR 70

Collection Date/Time: 09/07/2022 09:10

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355128	DEP SOP: NU-094-1	Color (true)	97		PCU	P419333	
	EPA 180.1 Rev. 2.0	Turbidity	7.2		NTU	P419325	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P419774	
		Sulfate	140		mg SO4/L	P419778	
	SM 2320 B-2011	Total Alkalinity	45		mg CaCO3/L	P419767	
	SM 2540 C-2011	TDS	497		mg/L	P419659	
	SM 2540 D-2011	TSS	7	I	mg/L	P419660	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P419771	
2355129	EPA 350.1 Rev. 2.0	Ammonia-N	0.040		mg N/L	P419628	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P419454	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P419542	
	EPA 365.1 Rev. 2.0	Total-P	0.087		mg P/L	P419537	
	SM 5310 B-2011	Organic Carbon	22		mg C/L	P419560	
2355145	EPA 8321B	Aldicarb	0.020	U	ug/L	P419489	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P419489	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P419489	MS
		Carbaryl	0.0020	U	ug/L	P419489	
		Carbofuran	0.0020	U	ug/L	P419489	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P419489	RPD
		Methiocarb	0.0020	U	ug/L	P419489	
		Methomyl	0.0020	U	ug/L	P419489	
		Oxamyl	0.0020	U	ug/L	P419489	
		Propoxur	0.0020	U	ug/L	P419489	
2355146		2,4-D	0.19		ug/L	P419277	
		Acesulfame K	0.10	U	ug/L	P419298	
		2,4,5-T	0.0040	U	ug/L	P419277	
		AMPA	1.1		ug/L	P419298	
		Acetaminophen	0.0080	U	ug/L	P419277	
		Acetamiprid	0.0020	U	ug/L	P419277	
		Endothall	0.25	U	ug/L	P419298	
		Glufosinate	0.10	U	ug/L	P419298	
		Glyphosate	3.5		ug/L	P419298	
		Afidopyropen	0.0020	U	ug/L	P419277	
		Bentazon	0.050		ug/L	P419277	
		Sucralose	0.12		ug/L	P419298	
		Benzovindiflupyr	0.0020	U	ug/L	P419277	
		Carbamazepine	8.0E-04	U	ug/L	P419277	
		Clothianidin	0.0020	U	ug/L	P419277	
		Dinotefuran	0.0020	U	ug/L	P419277	
		Diuron	0.0020	U	ug/L	P419277	
		Fenuron	0.032	U	ug/L	P419277	
		Fluridone	0.0065		ug/L	P419277	
		Imazapyr	0.092		ug/L	P419277	
		Hydrocodone	0.0020	U	ug/L	P419277	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355146	EPA 8321B	Ibuprofen	0.080	U	ug/L	P419277	
		Imidacloprid	0.0059	I	ug/L	P419277	
		Linuron	0.0040	U	ug/L	P419277	
		Mandestrobin	0.0020	U	ug/L	P419277	
		MCP	0.0040	U	ug/L	P419277	
		Naproxen	0.0080	U	ug/L	P419277	MS, RPD
		Primidone	0.0040	U	ug/L	P419277	
		Pyraclostrobin	0.0020	U	ug/L	P419277	
		Silvex	0.0040	U	ug/L	P419277	
		Thiamethoxam	0.0020	U	ug/L	P419277	
		Tolfenpyrad	0.0020	U	ug/L	P419277	
		Triclopyr	0.0040	U	ug/L	P419277	
2355149	EPA 8270E	Aldrin	0.68	UQ	ng/L	P419792	
		Alpha-BHC	0.10	UQ	ng/L	P419792	
		Alpha-Chlordane	0.21	UQ	ng/L	P419792	
		PCB-1016	2.1	UQ	ng/L	P419792	
		Beta-BHC	0.10	UQ	ng/L	P419792	
		PCB-1221	2.1	UQ	ng/L	P419792	
		Beta-Cyfluthrin	1.3	UQ	ng/L	P419792	
		PCB-1232	2.1	UQ	ng/L	P419792	
		Bifenthrin	0.52	UQ	ng/L	P419792	
		PCB-1242	2.1	UQ	ng/L	P419792	
		PCB-1248	2.1	UQ	ng/L	P419792	
		Chlorothalonil	1.3	UQ	ng/L	P419792	
		PCB-1254	2.1	UQ	ng/L	P419792	
		Cis-Nonachlor	0.21	UQ	ng/L	P419792	
		PCB-1260	2.1	UQ	ng/L	P419792	
		Cypermethrin	1.6	UQ	ng/L	P419792	RPD
		Dacthal	0.16	UQ	ng/L	P419792	
		DDD-p,p'	0.26	UQ	ng/L	P419792	RPD
		DDE-p,p'	0.21	UQ	ng/L	P419792	
		DDT-p,p'	0.26	UQ	ng/L	P419792	
		Delta-BHC	0.42	UQ	ng/L	P419792	
		Deltamethrin	1.3	UQ	ng/L	P419792	
		Dichlobenil	0.26	UQ	ng/L	P419792	
		Dicofol	1.3	UQ	ng/L	P419792	RPD
		Dieldrin	0.42	UQ	ng/L	P419792	
		Endosulfan I	0.42	UQ	ng/L	P419792	
		Endosulfan II	0.42	UQ	ng/L	P419792	
		Endosulfan Sulfate	0.31	UQ	ng/L	P419792	
		Endrin	0.42	UQ	ng/L	P419792	
		Endrin Aldehyde	0.78	UQ	ng/L	P419792	RPD
		Endrin Ketone	0.42	UQ	ng/L	P419792	
		Esfenvalerate	0.78	UQ	ng/L	P419792	
		Ethalfuralin	0.16	UQ	ng/L	P419792	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355149	EPA 8270E	Fenpropathrin	0.26	UQ	ng/L	P419792	
		Gamma-BHC	0.13	UQ	ng/L	P419792	
		Gamma-Chlordane	0.21	UQ	ng/L	P419792	
		Heptachlor	0.21	UQ	ng/L	P419792	
		Heptachlor Epoxide	0.26	UQ	ng/L	P419792	
		Hexachlorobenzene**	1.0	UQ	ng/L	P419792	
		Kepone	5.2	UQ	ng/L	P419792	
		Lambda-Cyhalothrin	0.78	UQ	ng/L	P419792	RPD
		Methoprene	0.78	UQ	ng/L	P419792	
		Methoxychlor	0.31	UQ	ng/L	P419792	
		MGK-264	0.21	UQ	ng/L	P419792	
		Mirex	0.37	UQ	ng/L	P419792	
		Oxychlordane	0.31	UQ	ng/L	P419792	
		Permethrin	1.7	UQ	ng/L	P419792	RPD
		Phenothrin	0.94	UQ	ng/L	P419792	
		Piperonyl Butoxide	0.16	UQ	ng/L	P419792	
		Prallethrin	2.1	UQ	ng/L	P419792	
		Tau-Fluvalinate	0.26	UQ	ng/L	P419792	
		Tetramethrin	0.78	UQ	ng/L	P419792	
		Trans-Nonachlor	0.21	UQ	ng/L	P419792	
		Triclosan Methyl	0.16	UQ	ng/L	P419792	
		Trifluralin	0.21	UQ	ng/L	P419792	
		Chlordane	2.6	UQ	ng/L	P419792	
		Toxaphene	16	UQ	ng/L	P419792	
2355150	EPA 8270E	Oxybenzone**	9.6	UQ	ng/L	P420385	
		Acetochlor	0.24	U	ng/L	P419392	
		Octinoxate**	19	UQ	ng/L	P420385	
		Alachlor	0.24	U	ng/L	P419392	
		Avobenzone**	96	UQ	ng/L	P420385	
		Ametryn	0.58	U	ng/L	P419392	
		Atrazine	230		ng/L	P419392	
		PBDE-47**	3.8	UQ	ng/L	P420385	
		Atrazine Desethyl	1.4	U	ng/L	P419392	
		PBDE-99**	4.8	UQ	ng/L	P420385	
		Azinphos Methyl	1.9	U	ng/L	P419392	
		Tri-o-cresyl Phosphate**	5.7	UQ	ng/L	P420385	
		Azoxystrobin	0.48	U	ng/L	P419392	
		Bromacil	0.48	U	ng/L	P419392	
		2-Ethylhexyl	11	UQ	ng/L	P420385	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	U	ng/L	P419392	
		Dechlorane Plus**	29	UQ	ng/L	P420385	
		Caffeine**	7.2	U	ng/L	P419392	
		Carbophenothion	0.19	U	ng/L	P419392	
		Carfentrazone Ethyl	0.097	U	ng/L	P419392	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355150	EPA 8270E	Chlorfenapyr	0.17	U	ng/L	P419392	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P419392	
		Chlorpyrifos Methyl	0.048	U	ng/L	P419392	
		Coumaphos	0.48	U	ng/L	P419392	
		Cyanazine	3.1	U	ng/L	P419392	
		Cyprodinil	0.097	U	ng/L	P419392	
		Demeton	1.4	U	ng/L	P419392	
		Diazinon	0.12	U	ng/L	P419392	
		Difenoconazole	0.58	U	ng/L	P419392	
		Dimethenamid	180		ng/L	P419392	
		Dimethomorph	0.17	U	ng/L	P419392	
		Disulfoton	0.48	U	ng/L	P419392	
		Dithiopyr	1.7	V	ng/L	P419392	
		EPTC	1.2	U	ng/L	P419392	
		Ethion	0.14	U	ng/L	P419392	
		Ethoprop	0.097	U	ng/L	P419392	
		Etridiazole	0.14	U	ng/L	P419392	
		Fenamiphos	0.48	U	ng/L	P419392	
		Fenbuconazole	0.56		ng/L	P419392	
		Fipronil	0.24	UJ	ng/L	P419392	LCS
		Fipronil Desulfinyl**	0.12	U	ng/L	P419392	
		Fipronil Sulfide	0.14	UJ	ng/L	P419392	LCS
		Fipronil Sulfone	0.14	U	ng/L	P419392	
		Fluazifop-P-butyl	0.097	U	ng/L	P419392	
		Fludioxonil	0.12	U	ng/L	P419392	
		Flumioxazin	2.3	I	ng/L	P419392	
		Flutolanil	0.097	U	ng/L	P419392	
		Fluxapyroxad	0.24	I	ng/L	P419392	RPD
		Fonofos	0.19	U	ng/L	P419392	
		Hexazinone	1.8	I	ng/L	P419392	
		Imazalil	0.72	U	ng/L	P419392	
		Iprodione	0.58	U	ng/L	P419392	
		Loratadine**	0.097	U	ng/L	P419392	
		Malathion	0.34	U	ng/L	P419392	
		Metalaxyl	0.72	U	ng/L	P419392	
		Metolachlor	310		ng/L	P419392	
		Metribuzin	2.4	U	ng/L	P419392	
		Mevinphos	1.0	U	ng/L	P419392	
		Molinate	0.29	U	ng/L	P419392	
		Myclobutanil	0.24	U	ng/L	P419392	
		Naled	1.4	U	ng/L	P419392	
		Napropamide	0.39	U	ng/L	P419392	
		Norflurazon	11		ng/L	P419392	
		Oxadiazon	1.3		ng/L	P419392	
		Oxyfluorfen	0.14	U	ng/L	P419392	MS

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355150	EPA 8270E	Parathion Ethyl	0.24	U	ng/L	P419392	
		Parathion Methyl	0.53	U	ng/L	P419392	
		Pendimethalin	2.0	I	ng/L	P419392	
		Phenytol**	3.4	U	ng/L	P419392	MS, RPD
		Phorate	0.51	U	ng/L	P419392	
		Prodiatamine	0.17	U	ng/L	P419392	
		Prometon	0.87	U	ng/L	P419392	
		Prometryn	0.19	U	ng/L	P419392	MS
		Pronamide	0.39	I	ng/L	P419392	
		Propanil	0.12	U	ng/L	P419392	
		Propargite	1.4	U	ng/L	P419392	
		Propiconazole	3.0		ng/L	P419392	
		Pyraflufen Ethyl	0.24	U	ng/L	P419392	
		Pyridaben	5.6		ng/L	P419392	
		Pyriproxyfen	0.12	U	ng/L	P419392	
		Simazine	44		ng/L	P419392	
		Stirophos	0.12	U	ng/L	P419392	RPD
		Sulfentrazone	15		ng/L	P419392	
		Tebuconazole	0.88	I	ng/L	P419392	
		Terbufos	0.097	U	ng/L	P419392	
		Terbuthylazine	0.41	U	ng/L	P419392	
		Thiobencarb	0.58	U	ng/L	P419392	
		Triadimefon	0.24	U	ng/L	P419392	

Ref. Method and Comment:

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

EPA 8270E: Sample expired for preparation due to need for re-extraction.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes. Sample expired for preparation due to need for re-extraction.

EPA 8276: Sample expired for preparation due to need for re-extraction.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in one of the Method Blanks and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 09/07/2022 09:30

Field ID: FB_09072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355152	EPA 8270E	Oxybenzone**	280	Q	ng/L	P420385	
		Acetochlor	0.24	U	ng/L	P419392	
		Octinoxate**	21	UQ	ng/L	P420385	
		Alachlor	0.24	U	ng/L	P419392	
		Avobenzone**	100	UQ	ng/L	P420385	
		Ametryn	0.57	U	ng/L	P419392	
		Atrazine	0.24	U	ng/L	P419392	
		PBDE-47**	4.1	UQ	ng/L	P420385	
		Atrazine Desethyl	1.4	U	ng/L	P419392	
		PBDE-99**	5.1	UQ	ng/L	P420385	
		Azinphos Methyl	1.9	U	ng/L	P419392	
		Tri-o-cresyl Phosphate**	6.2	UQ	ng/L	P420385	
		Azoxystrobin	0.48	U	ng/L	P419392	
		Bromacil	0.48	U	ng/L	P419392	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UQ	ng/L	P420385	
		Butylate	0.38	U	ng/L	P419392	
		Dechlorane Plus**	31	UQ	ng/L	P420385	
		Caffeine**	7.1	U	ng/L	P419392	
		Carbophenothion	0.19	U	ng/L	P419392	
		Carfentrazone Ethyl	0.095	U	ng/L	P419392	
		Chlorfenapyr	0.17	U	ng/L	P419392	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P419392	
		Chlorpyrifos Methyl	0.048	U	ng/L	P419392	
		Coumaphos	0.48	U	ng/L	P419392	
		Cyanazine	3.1	U	ng/L	P419392	
		Cyprodinil	0.095	U	ng/L	P419392	
		Demeton	1.4	U	ng/L	P419392	
		Diazinon	0.12	U	ng/L	P419392	
		Difenoconazole	0.57	U	ng/L	P419392	
		Dimethenamid	0.095	U	ng/L	P419392	
		Dimethomorph	0.17	U	ng/L	P419392	
		Disulfoton	0.48	U	ng/L	P419392	
		Dithiopyr	0.57	IV	ng/L	P419392	
		EPTC	1.2	U	ng/L	P419392	
		Ethion	0.14	U	ng/L	P419392	
		Ethoprop	0.095	U	ng/L	P419392	
		Etridiazole	0.14	U	ng/L	P419392	
		Fenamiphos	0.48	U	ng/L	P419392	
		Fenbuconazole	0.12	U	ng/L	P419392	
		Fipronil	0.24	UJ	ng/L	P419392	LCS
		Fipronil Desulfinyl**	0.12	U	ng/L	P419392	
		Fipronil Sulfide	0.14	UJ	ng/L	P419392	LCS
		Fipronil Sulfone	0.14	U	ng/L	P419392	

Field ID: FB_09072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355152	EPA 8270E	Fluazifop-P-butyl	0.095	U	ng/L	P419392	
		Fludioxonil	0.12	U	ng/L	P419392	
		Flumioxazin	1.7	U	ng/L	P419392	
		Flutolanil	0.095	U	ng/L	P419392	
		Fluxapyroxad	0.095	U	ng/L	P419392	RPD
		Fonofos	0.19	U	ng/L	P419392	
		Hexazinone	0.48	U	ng/L	P419392	
		Imazalil	0.71	U	ng/L	P419392	
		Iprodione	0.57	U	ng/L	P419392	
		Loratadine**	0.095	U	ng/L	P419392	
		Malathion	0.33	U	ng/L	P419392	
		Metalaxyl	0.71	U	ng/L	P419392	
		Metolachlor	0.33	U	ng/L	P419392	
		Metribuzin	2.4	U	ng/L	P419392	
		Mevinphos	1.0	U	ng/L	P419392	
		Molinate	0.29	U	ng/L	P419392	
		Myclobutanil	0.24	U	ng/L	P419392	
		Naled	1.4	U	ng/L	P419392	
		Napropamide	0.38	U	ng/L	P419392	
		Norflurazon	0.48	U	ng/L	P419392	
		Oxadiazon	0.29	U	ng/L	P419392	
		Oxyfluorfen	0.14	U	ng/L	P419392	MS
		Parathion Ethyl	0.24	U	ng/L	P419392	
		Parathion Methyl	0.52	U	ng/L	P419392	
		Pendimethalin	0.95	U	ng/L	P419392	
		Phenytain**	3.3	U	ng/L	P419392	MS, RPD
		Phorate	0.50	U	ng/L	P419392	
		Prodiamine	0.17	U	ng/L	P419392	
		Prometon	0.86	U	ng/L	P419392	
		Prometryn	0.19	U	ng/L	P419392	MS
		Pronamide	0.14	U	ng/L	P419392	
		Propanil	0.12	U	ng/L	P419392	
		Propargite	1.4	U	ng/L	P419392	
		Propiconazole	0.48	U	ng/L	P419392	
		Pyraflufen Ethyl	0.24	U	ng/L	P419392	
		Pyridaben	0.43	U	ng/L	P419392	
		Pyriproxyfen	0.12	U	ng/L	P419392	
		Simazine	0.48	U	ng/L	P419392	
		Stirophos	0.12	U	ng/L	P419392	RPD
		Sulfentrazone	0.48	U	ng/L	P419392	
		Tebuconazole	0.48	U	ng/L	P419392	
		Terbufos	0.095	U	ng/L	P419392	
		Terbutylazine	0.40	U	ng/L	P419392	
		Thiobencarb	0.57	U	ng/L	P419392	
		Triadimefon	0.24	U	ng/L	P419392	

Field ID: FB_09072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
-----------	-------------	-----------	--------	------	-------	----------	----------

Ref. Method and Comment:
EPA 8270E: Sample expired for preparation due to need for re-extraction.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in one of the Method Blanks and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: L-49

Collection Date/Time: 09/07/2022 10:05

Field ID: G4SD0190

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355124	DEP SOP: NU-094-1	Color (true)	71		PCU	P419333	
	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P419325	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P419741	
		Sulfate	44		mg SO4/L	P419744	
	SM 2320 B-2011	Total Alkalinity	160		mg CaCO3/L	P419620	
	SM 2540 C-2011	TDS	433		mg/L	P419659	
	SM 2540 D-2011	TSS	3	I	mg/L	P419660	
	SM 4500-F- C-2011	Fluoride	0.19		mg F/L	P419622	
2355126	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P419628	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P419517	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P419542	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P419537	
	SM 5310 B-2011	Organic Carbon	19		mg C/L	P419560	

Ref. Method and Comment:

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

Sample Location: L-61W At Old LakeportRd

Collection Date/Time: 09/07/2022 10:25

Field ID: G4SD0217

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355157	EPA 200.7 Rev. 4.4	Calcium	43.0		mg/L	P419409	
		Iron	270		ug/L	P419409	
		Magnesium	4.91		mg/L	P419409	
		Potassium	4.0		mg/L	P419409	
		Sodium	22.8		mg/L	P419409	
		Strontium	581		ug/L	P419409	
		Tin	6.7	I	ug/L	P419409	
		Titanium	0.95	I	ug/L	P419409	
		Vanadium	2.0	U	ug/L	P419409	
		Zinc	5.0	U	ug/L	P419409	
	EPA 200.8 Rev. 5.4	Aluminum	64		ug/L	P419671	
		Antimony	0.054	I	ug/L	P419409	
		Arsenic	1.38		ug/L	P419409	
		Barium	25.4		ug/L	P419409	
		Beryllium	0.021	I	ug/L	P419409	
		Boron	39.3		ug/L	P419409	
		Cadmium	0.020	U	ug/L	P419409	
		Chromium	0.53	I	ug/L	P419409	
		Cobalt	0.095		ug/L	P419409	
		Copper	0.68	I	ug/L	P419409	
	SM 2340 B-2011	Lead	0.20	U	ug/L	P419409	
		Manganese	6.49		ug/L	P419409	
		Molybdenum	0.61		ug/L	P419409	
		Nickel	0.50	U	ug/L	P419409	
		Selenium	0.20	U	ug/L	P419409	
		Silver	0.010	U	ug/L	P419409	
		Thallium	0.10	U	ug/L	P419409	
		Hardness	127		mg/L	P419409	

Sample Location: L-61W

Collection Date/Time: 09/07/2022 10:40

Field ID: G4SD0194

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355125	DEP SOP: NU-094-1	Color (true)	170		PCU	P419333	
	EPA 180.1 Rev. 2.0	Turbidity	45		NTU	P419325	
	EPA 300.0 Rev. 2.1	Chloride	43		mg Cl/L	P419774	
		Sulfate	4.8		mg SO4/L	P419778	
	SM 2320 B-2011	Total Alkalinity	108		mg CaCO3/L	P419620	
	SM 2540 C-2011	TDS	260		mg/L	P419659	
	SM 2540 D-2011	TSS	102		mg/L	P419660	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P419622	
2355127	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P419628	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	3.7		mg N/L	P419455	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P419542	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P419537	
	SM 5310 B-2011	Organic Carbon	32		mg C/L	P419560	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: C-19 CANAL

Collection Date/Time: 09/07/2022 11:15

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355130	DEP SOP: NU-094-1	Color (true)	100		PCU	P419333	
	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P419325	
	EPA 300.0 Rev. 2.1	Chloride	57		mg Cl/L	P419774	
		Sulfate	29		mg SO4/L	P419778	
	SM 2320 B-2011	Total Alkalinity	164		mg CaCO3/L	P419767	
	SM 2540 C-2011	TDS	339		mg/L	P419659	
	SM 2540 D-2011	TSS	4	I	mg/L	P419660	
2355131	SM 4500-F- C-2011	Fluoride	0.24		mg F/L	P419771	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.42		mg N/L	P419629	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P419517	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.025		mg N/L	P419542	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P419537	
2355147	EPA 8321B	SM 5310 B-2011	Organic Carbon	22	mg C/L	P419560	
		2,4-D	0.25		ug/L	P419277	
		Acesulfame K	0.10	U	ug/L	P419298	
		2,4,5-T	0.0040	U	ug/L	P419277	
		AMPA	0.53		ug/L	P419298	
		Acetaminophen	0.0080	U	ug/L	P419277	
		Acetamiprid	0.0020	U	ug/L	P419277	
		Endothall	0.25	U	ug/L	P419298	
		Glufosinate	0.10	U	ug/L	P419298	
		Glyphosate	1.3		ug/L	P419298	
		Afidopyropen	0.0020	U	ug/L	P419277	
		Bentazon	0.057		ug/L	P419277	
		Sucralose	0.094		ug/L	P419298	
		Benzovindiflupyr	0.0020	U	ug/L	P419277	
		Carbamazepine	8.0E-04	U	ug/L	P419277	
		Clothianidin	0.0020	U	ug/L	P419277	
		Dinotefuran	0.0020	U	ug/L	P419277	
		Diuron	0.0041	I	ug/L	P419277	
		Fenuron	0.032	U	ug/L	P419277	
		Fluridone	0.0022	I	ug/L	P419277	
		Imazapyr	0.17		ug/L	P419277	
		Hydrocodone	0.0020	U	ug/L	P419277	
		Ibuprofen	0.080	U	ug/L	P419277	
		Imidacloprid	0.0020	U	ug/L	P419277	
		Linuron	0.0040	U	ug/L	P419277	
		Mandestrobin	0.0020	U	ug/L	P419277	
		MCP	0.0040	U	ug/L	P419277	
		Naproxen	0.0080	U	ug/L	P419277	MS, RPD
		Primidone	0.0040	U	ug/L	P419277	
		Pyraclostrobin	0.0020	U	ug/L	P419277	
		Silvex	0.0040	U	ug/L	P419277	
		Thiamethoxam	0.0020	U	ug/L	P419277	

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355147	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P419277	
		Triclopyr	0.0040	U	ug/L	P419277	
2355151	EPA 8270E	Aldrin	0.67	U	ng/L	P419360	
		Alpha-BHC	0.10	U	ng/L	P419360	
		Alpha-Chlordane	0.21	U	ng/L	P419360	
		PCB-1016	2.1	U	ng/L	P419360	
		Beta-BHC	0.10	U	ng/L	P419360	
		PCB-1221	2.1	U	ng/L	P419360	
		Beta-Cyfluthrin	1.3	U	ng/L	P419360	
		PCB-1232	2.1	U	ng/L	P419360	
		Bifenthrin	0.52	U	ng/L	P419360	
		PCB-1242	2.1	U	ng/L	P419360	
		Carbophenothion	0.93	U	ng/L	P419360	
		PCB-1248	2.1	U	ng/L	P419360	
		Chlorothalonil	1.3	U	ng/L	P419360	
		PCB-1254	2.1	U	ng/L	P419360	
		Cis-Nonachlor	0.21	U	ng/L	P419360	
		PCB-1260	2.1	U	ng/L	P419360	
		Cypermethrin	1.5	U	ng/L	P419360	
		Dacthal	0.15	U	ng/L	P419360	
		DDD-p,p'	0.26	U	ng/L	P419360	
		DDE-p,p'	0.21	U	ng/L	P419360	
		DDT-p,p'	0.26	U	ng/L	P419360	
		Delta-BHC	0.41	U	ng/L	P419360	
		Deltamethrin	1.3	U	ng/L	P419360	
		Dichlobenil	0.26	U	ng/L	P419360	
		Dicofol	1.3	UJ	ng/L	P419360	LCS
		Dieldrin	0.41	U	ng/L	P419360	
		Endosulfan I	0.41	U	ng/L	P419360	
		Endosulfan II	0.41	U	ng/L	P419360	
		Endosulfan Sulfate	0.31	U	ng/L	P419360	
		Endrin	0.41	U	ng/L	P419360	
		Endrin Aldehyde	0.77	U	ng/L	P419360	
		Endrin Ketone	0.41	U	ng/L	P419360	
		Esfenvalerate	0.77	U	ng/L	P419360	
		Ethalfuralin	0.15	U	ng/L	P419360	
		Fenpropathrin	0.26	U	ng/L	P419360	
		Gamma-BHC	0.13	U	ng/L	P419360	
		Gamma-Chlordane	0.21	U	ng/L	P419360	
		Heptachlor	0.21	U	ng/L	P419360	
		Heptachlor Epoxide	0.26	U	ng/L	P419360	
		Hexachlorobenzene**	1.0	U	ng/L	P419360	
		Kepone	5.2	U	ng/L	P419360	
		Lambda-Cyhalothrin	0.77	U	ng/L	P419360	
		Methoprene	0.77	U	ng/L	P419360	

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355151	EPA 8270E	Methoxychlor	0.31	UJ	ng/L	P419360	CCV
		MGK-264	0.21	U	ng/L	P419360	
		Mirex	0.36	U	ng/L	P419360	
		Oxychlordane	0.31	U	ng/L	P419360	
		Permethrin	1.6	U	ng/L	P419360	
		Phenothrin	0.93	U	ng/L	P419360	
		Piperonyl Butoxide	2.3		ng/L	P419360	
		Prallethrin	2.1	U	ng/L	P419360	
		Tau-Fluvalinate	0.26	U	ng/L	P419360	
		Tetramethrin	0.77	UJ	ng/L	P419360	CCV
		Trans-Nonachlor	0.21	U	ng/L	P419360	
		Triclosan Methyl	0.15	U	ng/L	P419360	
		Trifluralin	0.21	U	ng/L	P419360	
	EPA 8276	Chlordane	2.6	U	ng/L	P419360	
		Toxaphene	15	U	ng/L	P419360	

Ref. Method and Comment:

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

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: P419333

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419325

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P419409

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419409

Component	Result	Code	Units
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419671

Component	Result	Code	Units
Aluminum	5.0	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419741

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419744

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419774

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419778

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419628

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419629

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419454

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419455

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419517

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419542

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419537

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

Reference Method: EPA 8270E
Batch ID: P419360

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419360

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419360

Component	Result	Code	Units
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 8270E

Batch ID: P419392

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419392

Component	Result	Code	Units
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.36	I	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P419392

Component	Result	Code	Units
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419392

Component	Result	Code	Units
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P419792

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P419792

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419792

Component	Result	Code	Units
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 8270E

Batch ID: P420385

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
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Octinoxate	27	I	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420385

Component	Result	Code	Units
Octinoxate	24	I	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L

Reference Method: EPA 8276

Batch ID: P419360

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8276

Batch ID: P419792

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P419277

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
MCP	0.0040	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P419277

Component	Result	Code	Units
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: P419298

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: P419489

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

Reference Method: SM 2320 B-2011
Batch ID: P419620

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

Reference Method: SM 2320 B-2011
Batch ID: P419767

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

Reference Method: SM 2540 C-2011
Batch ID: P419659

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P419660

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419771

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419560

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: P419333

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	92.3		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419325

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.4		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P419409

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	106		P	85 - 115
Magnesium	106		P	85 - 115
Potassium	106		P	85 - 115
Sodium	105		P	85 - 115
Strontium	103		P	85 - 115
Tin	107		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419409

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Antimony	102		P	85 - 115
Arsenic	102		P	85 - 115
Barium	105		P	85 - 115
Beryllium	100		P	85 - 115
Boron	101		P	85 - 115
Cadmium	98.8		P	85 - 115
Chromium	100		P	85 - 115
Cobalt	96.5		P	85 - 115
Copper	99.4		P	85 - 115
Lead	91.8		P	85 - 115
Manganese	98.9		P	85 - 115
Molybdenum	97.6		P	85 - 115
Nickel	101		P	85 - 115
Selenium	102		P	85 - 115
Silver	88.3		P	85 - 115
Thallium	97.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419671

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.1		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419741

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419744

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419774

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419778

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419628

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419629

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419454

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419455

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419517

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P419542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P419537

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

Reference Method: EPA 8270E
 Batch ID: P419360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.5		P	10 - 92.0
Alpha-BHC	86.5		P	75 - 107
Alpha-Chlordane	74.8		P	50 - 108
Beta-BHC	116		P	36 - 138
Beta-Cyfluthrin	63.8		P	20 - 161
Bifenthrin	46.8		P	10 - 119
Carbophenothion	56.0		P	19 - 94.0
Chlorothalonil	133		P	26 - 186
Cis-Nonachlor	58.0		P	42 - 119
Cypermethrin	45.9		P	22 - 150
Dacthal	94.6		P	72 - 119
DDD-p,p'	47.0		P	45 - 107
DDE-p,p'	74.2		P	48 - 106
DDT-p,p'	71.9		P	48 - 110
Delta-BHC	135		P	54 - 140
Deltamethrin	80.5		P	22 - 189
Dichlobenil	92.9		P	36 - 117
Dicofol	37.0		F	46 - 155
Dieldrin	55.7		P	54 - 110
Endosulfan I	84.1		P	59 - 105
Endosulfan II	85.2		P	51 - 118
Endosulfan Sulfate	97.1		P	57 - 121
Endrin	83.8		P	10 - 120
Endrin Aldehyde	61.2		P	34 - 118
Endrin Ketone	90.9		P	69 - 177
Esfenvalerate	68.5		P	23 - 168
Ethalfuralin	63.7		P	49 - 99.0
Fenpropathrin	58.6		P	34 - 117
Gamma-BHC	97.3		P	72 - 117
Gamma-Chlordane	71.5		P	43 - 106
Heptachlor	42.6		P	41 - 98.0
Heptachlor Epoxide	79.2		P	57 - 106
Hexachlorobenzene	64.0		P	36 - 99.0
Kepone	213		P	16 - 215
Lambda-Cyhalothrin	41.5		P	21 - 177
Methoprene	54.4		P	10 - 119
Methoxychlor	92.7		P	60 - 112
MGK-264	83.4		P	26 - 122
Mirex	40.5		P	10 - 169
Oxychlordane	71.5		P	43 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P419360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1016	73.4		P	48 - 112
PCB-1260	75.7		P	44 - 118
Permethrin	45.2		P	24 - 148
Phenothrin	29.2		P	10 - 106
Piperonyl Butoxide	108		P	10 - 139
Prallethrin	65.0		P	17 - 109
Tau-Fluvalinate	52.8		P	13 - 131
Tetramethrin	77.4		P	10 - 132
Trans-Nonachlor	76.8		P	44 - 106
Triclosan Methyl	79.6		P	59 - 109
Trifluralin	65.9		P	44 - 101

Reference Method: EPA 8270E
 Batch ID: P419392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	86.6		P	70 - 121
Alachlor	79.9		P	68 - 119
Ametryn	79.2		P	64 - 139
Atrazine	81.1		P	76 - 120
Atrazine Desethyl	61.3		P	44 - 126
Azinphos Methyl	109		P	43 - 192
Azoxystrobin	104		P	36 - 224
Bromacil	108		P	52 - 121
Butylate	40.8		P	28 - 91.0
Caffeine	72.6		P	50 - 134
Carbophenothion	81.0		P	56 - 129
Carfentrazone Ethyl	88.8		P	60 - 141
Chlorfenapyr	83.3		P	56 - 115
Chlorpyrifos Ethyl	106		P	60 - 118
Chlorpyrifos Methyl	93.1		P	68 - 119
Coumaphos	144		P	18 - 250
Cyanazine	130		P	61 - 250
Cyprodinil	107		P	55 - 145
Demeton	85.9		P	30 - 159
Diazinon	118		P	70 - 123
Difenoconazole	112		P	49 - 204
Dimethenamid	69.5		P	64 - 115
Dimethomorph	89.4		P	12 - 219
Disulfoton	80.3		P	44 - 125
Dithiopyr	92.7		P	64 - 115
EPTC	46.8		P	28 - 86.0
Ethion	86.8		P	33 - 125
Ethoprop	84.1		P	64 - 116
Etridiazole	50.6		P	34 - 91.0
Fenamiphos	85.0		P	12 - 127
Fenbuconazole	111		P	59 - 151
Fipronil	55.0		F	67 - 129
Fipronil Desulfinyl	72.4		P	65 - 127
Fipronil Sulfide	52.5		F	61 - 116
Fipronil Sulfone	70.1		P	55 - 117
Fluazifop-P-butyl	87.8		P	62 - 127

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P419392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fludioxonil	86.3		P	62 - 128
Flumioxazin	98.3		P	33 - 250
Flutolanil	89.7		P	56 - 127
Fluxapyroxad	104		P	45 - 128
Fonofos	81.6		P	62 - 111
Hexazinone	87.2		P	46 - 139
Imazalil	74.8		P	38 - 142
Iprodione	134		P	47 - 135
Loratadine	113		P	10 - 244
Malathion	95.7		P	61 - 139
Metalaxyl	89.4		P	10 - 119
Metolachlor	93.8		P	65 - 118
Metribuzin	89.5		P	51 - 250
Mevinphos	73.2		P	53 - 121
Molinate	61.5		P	42 - 96.0
Myclobutanil	98.2		P	55 - 128
Naled	83.8		P	10 - 98.0
Napropamide	67.8		P	49 - 121
Norflurazon	82.8		P	61 - 126
Oxadiazon	77.1		P	59 - 116
Oxyfluorfen	98.5		P	64 - 137
Parathion Ethyl	74.6		P	70 - 112
Parathion Methyl	98.3		P	76 - 133
Pendimethalin	74.4		P	52 - 117
Phenytoin	25.2		P	10 - 199
Phorate	82.0		P	48 - 121
Prodiamine	57.5		P	26 - 142
Prometon	77.1		P	43 - 123
Prometryn	109		P	66 - 127
Pronamide	117		P	75 - 121
Propanil	74.4		P	45 - 150
Propargite	120		P	42 - 208
Propiconazole	92.8		P	60 - 125
Pyraflufen Ethyl	92.4		P	70 - 138
Pyridaben	124		P	35 - 245
Pyriproxyfen	121		P	30 - 149
Simazine	83.8		P	72 - 125
Stirophos	80.5		P	29 - 164
Sulfentrazone	96.7		P	21 - 139
Tebuconazole	82.8		P	10 - 115
Terbufos	111		P	60 - 123
Terbutylazine	81.3		P	72 - 115
Thiobencarb	76.5		P	31 - 139
Triadimefon	78.5		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P419792

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	46.7		P	10 - 92.0
Alpha-BHC	83.2		P	75 - 107
Alpha-Chlordane	67.3		P	50 - 108

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P419792

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-BHC	112		P	36 - 138
Beta-Cyfluthrin	59.0		P	20 - 161
Bifenthrin	36.6		P	10 - 119
Chlorothalonil	65.0		P	26 - 186
Cis-Nonachlor	65.2		P	42 - 119
Cypermethrin	62.6		P	22 - 150
Dacthal	85.6		P	72 - 119
DDD-p,p'	82.9		P	45 - 107
DDE-p,p'	68.3		P	48 - 106
DDT-p,p'	65.5		P	48 - 110
Delta-BHC	115		P	54 - 140
Deltamethrin	57.1		P	22 - 189
Dichlobenil	89.0		P	36 - 117
Dicofol	81.0		P	46 - 155
Dieldrin	75.8		P	54 - 110
Endosulfan I	75.1		P	59 - 105
Endosulfan II	81.0		P	51 - 118
Endosulfan Sulfate	92.8		P	57 - 121
Endrin	70.2		P	10 - 120
Endrin Aldehyde	83.4		P	34 - 118
Endrin Ketone	94.3		P	69 - 177
Esfenvalerate	54.3		P	23 - 168
Ethalfuralin	70.7		P	49 - 99.0
Fenpropathrin	62.2		P	34 - 117
Gamma-BHC	85.7		P	72 - 117
Gamma-Chlordane	68.4		P	43 - 106
Heptachlor	59.8		P	41 - 98.0
Heptachlor Epoxide	73.2		P	57 - 106
Hexachlorobenzene	63.8		P	36 - 99.0
Kepone	187		P	16 - 215
Lambda-Cyhalothrin	46.3		P	21 - 177
Methoprene	41.1		P	10 - 119
Methoxychlor	76.6		P	60 - 112
MGK-264	83.0		P	26 - 122
Mirex	45.1		P	10 - 169
Oxychlordane	68.3		P	43 - 105
PCB-1016	85.5		P	48 - 112
PCB-1260	80.2		P	44 - 118
Permethrin	58.3		P	24 - 148
Phenothrin	39.5		P	10 - 106
Piperonyl Butoxide	89.9		P	10 - 139
Prallethrin	76.5		P	17 - 109
Tau-Fluvalinate	41.6		P	13 - 131
Tetramethrin	95.1		P	10 - 132
Trans-Nonachlor	67.9		P	44 - 106
Triclosan Methyl	75.8		P	59 - 109
Trifluralin	66.4		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P420385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
-----------	---------	---------	-----------	----------------

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P420385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.4		P	42 - 162
Avobenzene	96.4		P	40 - 203
Dechlorane Plus	123		P	47 - 182
Octinoxate	78.2		P	26 - 166
Oxybenzone	65.1		P	49 - 135
PBDE-47	71.0		P	41 - 148
PBDE-99	85.5		P	38 - 147
Tri-o-cresyl Phosphate	76.9		P	49 - 150

Reference Method: EPA 8276

Batch ID: P419360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	80.8		P	61 - 116
Toxaphene	78.4		P	48 - 124

Reference Method: EPA 8276

Batch ID: P419792

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.3		P	61 - 116
Toxaphene	81.0		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P419277

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	96.4		P	40 - 150
2,4,5-T	75.1		P	40 - 150
Acetaminophen	71.7		P	30 - 150
Acetamiprid	79.0		P	40 - 150
Afidopyropen	37.9		P	30 - 150
Bentazon	116		P	30 - 150
Benzovindiflupyr	82.9		P	40 - 150
Carbamazepine	97.1		P	40 - 150
Clothianidin	97.3		P	40 - 150
Dinotefuran	84.8		P	40 - 150
Diuron	101		P	40 - 150
Fenuron	104		P	40 - 150
Fluridone	82.3		P	40 - 150
Hydrocodone	94.0		P	40 - 150
Ibuprofen	111		P	40 - 150
Imazapyr	97.0		P	40 - 150
Imidacloprid	99.4		P	40 - 150
Linuron	89.1		P	40 - 150
Mandestrobin	86.4		P	40 - 150
MCPP	102		P	40 - 150
Naproxen	129		P	40 - 150
Primidone	86.9		P	40 - 150
Pyraclostrobin	70.4		P	40 - 150
Silvex	65.6		P	40 - 150
Thiamethoxam	89.4		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P419277

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tolfenpyrad	34.0		P	30 - 150
Triclopyr	72.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419298

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	100		P	40 - 150
AMPA	97.9		P	40 - 150
Endothall	85.2		P	40 - 150
Glufosinate	81.4		P	40 - 150
Glyphosate	107		P	40 - 150
Sucralose	94.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	130		P	40 - 150
Aldicarb	64.4		P	30 - 150
Aldicarb Sulfone	118		P	40 - 150
Aldicarb Sulfoxide	110		P	40 - 150
Carbaryl	94.6		P	40 - 150
Carbofuran	92.8		P	40 - 150
Methiocarb	115		P	40 - 150
Methomyl	108		P	40 - 150
Oxamyl	93.7		P	40 - 150
Propoxur	101		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P419620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P419767

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

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P419771

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P419560

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P419409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355246	Calcium	109	85.0	P/P	80 - 120
2355246	Iron	108	106	P/P	80 - 120
2355246	Magnesium	107	102	P/P	80 - 120
2355246	Potassium	106	102	P/P	80 - 120
2355246	Sodium	102		P	80 - 120
2355246	Strontium	103	101	P/P	80 - 120
2355246	Tin	107	104	P/P	80 - 120
2355246	Titanium	105	102	P/P	80 - 120
2355246	Vanadium	104	100	P/P	80 - 120
2355246	Zinc	101	98.9	P/P	80 - 120
2355260	Calcium	107		P	80 - 120
2355260	Iron	107		P	80 - 120
2355260	Magnesium	108		P	80 - 120
2355260	Potassium	108		P	80 - 120
2355260	Sodium	104		P	80 - 120
2355260	Strontium	103		P	80 - 120
2355260	Tin	106		P	80 - 120
2355260	Titanium	102		P	80 - 120
2355260	Vanadium	101		P	80 - 120
2355260	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P419409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355246	Antimony	104	102	P/P	80 - 120
2355246	Arsenic	102	101	P/P	80 - 120
2355246	Barium	105	104	P/P	80 - 120
2355246	Beryllium	98.4	96.8	P/P	80 - 120
2355246	Boron	105	103	P/P	80 - 120
2355246	Cadmium	99.8	98.3	P/P	80 - 120
2355246	Chromium	106	105	P/P	80 - 120
2355246	Cobalt	97.3	95.0	P/P	80 - 120
2355246	Copper	98.5	97.2	P/P	80 - 120
2355246	Lead	93.8	92.8	P/P	80 - 120
2355246	Manganese	104	100	P/P	80 - 120
2355246	Molybdenum	100	98.0	P/P	80 - 120
2355246	Nickel	101	99.0	P/P	80 - 120
2355246	Selenium	102	99.2	P/P	80 - 120
2355246	Silver	88.3	86.8	P/P	80 - 120
2355246	Thallium	99.5	99.8	P/P	80 - 120
2355260	Antimony	107		P	80 - 120
2355260	Arsenic	104		P	80 - 120
2355260	Barium	109		P	80 - 120
2355260	Beryllium	98.4		P	80 - 120
2355260	Boron	105		P	80 - 120
2355260	Cadmium	103		P	80 - 120
2355260	Chromium	106		P	80 - 120
2355260	Cobalt	98.7		P	80 - 120
2355260	Copper	102		P	80 - 120
2355260	Lead	95.5		P	80 - 120
2355260	Manganese	104		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355260	Molybdenum	101		P	80 - 120
2355260	Nickel	101		P	80 - 120
2355260	Selenium	104		P	80 - 120
2355260	Silver	90.8		P	80 - 120
2355260	Thallium	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419671

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2354242	Aluminum	97.8	98.9	P/P	80 - 120
2355245	Aluminum	99.1		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419741

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355036	Chloride	103		P	90 - 110
2355063	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355036	Sulfate	101		P	90 - 110
2355063	Sulfate	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355233	Chloride	97.6		P	90 - 110
2355262	Chloride	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355233	Sulfate	98.7		P	90 - 110
2355262	Sulfate	95.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355074	Ammonia-N	96.2	96.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419629

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355235	Ammonia-N	97.2	97.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419454

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355075	Kjeldahl Nitrogen	109	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355037	Kjeldahl Nitrogen	105	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355114	NO2NO3-N	96.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419537

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355127	Total-P	97.7	102	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P419360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355149	PCB-1016	69.6	69.1	P/P	46 - 111
2355149	PCB-1260	55.7	56.4	P/P	45 - 114
2355301	Aldrin	75.3	74.2	P/P	20 - 82.0
2355301	Alpha-BHC	91.7	94.9	P/P	71 - 109
2355301	Alpha-Chlordane	90.2	88.2	P/P	42 - 106
2355301	Beta-BHC	84.0	106	P/P	69 - 180
2355301	Beta-Cyfluthrin	89.6	91.2	P/P	18 - 175
2355301	Bifenthrin	97.2	80.1	P/P	21 - 128
2355301	Carbophenothion	75.9	75.2	P/P	10 - 126
2355301	Chlorothalonil	126	145	P/P	10 - 300
2355301	Cis-Nonachlor	67.2	65.6	P/P	34 - 106
2355301	Cypermethrin	67.2	69.5	P/P	22 - 158
2355301	Dacthal	89.3	91.7	P/P	54 - 116
2355301	DDD-p,p'	51.2	50.8	P/P	34 - 107
2355301	DDE-p,p'	85.7	86.2	P/P	33 - 110
2355301	DDT-p,p'	82.8	83.4	P/P	50 - 122
2355301	Delta-BHC	115	132	P/P	77 - 193
2355301	Deltamethrin	117	116	P/P	10 - 195
2355301	Dichlobenil	57.2	63.0	P/P	25 - 113
2355301	Dicofol	49.2	46.8	P/P	38 - 247
2355301	Dieldrin	64.1	62.2	P/P	45 - 118
2355301	Endosulfan I	94.4	92.2	P/P	51 - 106
2355301	Endosulfan II	81.8	83.1	P/P	37 - 122
2355301	Endosulfan Sulfate	78.7	92.4	P/P	43 - 132
2355301	Endrin	92.0	89.2	P/P	29 - 101
2355301	Endrin Aldehyde	45.5	52.2	P/P	19 - 110
2355301	Endrin Ketone	80.1	84.3	P/P	60 - 140
2355301	Esfenvalerate	101	106	P/P	26 - 199

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P419360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355301	Ethalfuralin	72.8	71.5	P/P	45 - 99.0
2355301	Fenpropathrin	80.4	75.4	P/P	35 - 120
2355301	Gamma-BHC	94.4	101	P/P	63 - 128
2355301	Gamma-Chlordane	79.6	81.2	P/P	40 - 104
2355301	Heptachlor	54.4	52.4	P/P	36 - 97.0
2355301	Heptachlor Epoxide	87.8	85.7	P/P	49 - 184
2355301	Hexachlorobenzene	78.6	75.8	P/P	39 - 96.0
2355301	Kepone	69.9	131	P/P	10 - 217
2355301	Lambda-Cyhalothrin	66.4	63.9	P/P	21 - 193
2355301	Methoprene	99.4	83.5	P/P	20 - 106
2355301	Methoxychlor	90.9	92.6	P/P	53 - 118
2355301	MGK-264	86.1	91.8	P/P	40 - 118
2355301	Mirex	62.3	58.9	P/P	26 - 92.0
2355301	Oxychlordane	78.8	80.1	P/P	44 - 99.0
2355301	Permethrin	70.8	65.3	P/P	33 - 182
2355301	Phenothrin	57.5	58.2	P/P	10 - 129
2355301	Piperonyl Butoxide	128	126	P/P	10 - 211
2355301	Prallethrin	72.9	77.8	P/P	24 - 113
2355301	Tau-Fluvalinate	79.8	85.8	P/P	14 - 149
2355301	Tetramethrin	103	102	P/P	17 - 151
2355301	Trans-Nonachlor	88.8	88.7	P/P	42 - 102
2355301	Triclosan Methyl	86.3	85.5	P/P	48 - 108
2355301	Trifluralin	74.6	73.3	P/P	47 - 96.0

Reference Method: EPA 8270E

Batch ID: P419392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355923	Acetochlor	105	97.1	P/P	65 - 124
2355923	Alachlor	120	112	P/P	61 - 121
2355923	Ametryn	103	118	P/P	52 - 216
2355923	Atrazine Desethyl	38.5	37.8	P/P	15 - 160
2355923	Azinphos Methyl	142	153	P/P	40 - 292
2355923	Azoxystrobin	220	217	P/P	12 - 242
2355923	Bromacil	90.1	79.1	P/P	54 - 167
2355923	Butylate	20.4	23.4	P/P	14 - 94.0
2355923	Carbophenothion	99.6	94.6	P/P	49 - 122
2355923	Carfentrazone Ethyl	136	115	P/P	53 - 138
2355923	Chlorfenapyr	90.4	77.6	P/P	50 - 150
2355923	Chlorpyrifos Ethyl	115	94.0	P/P	52 - 122
2355923	Chlorpyrifos Methyl	101	88.3	P/P	66 - 117
2355923	Coumaphos	146	126	P/P	50 - 220
2355923	Cyanazine	220	217	P/P	43 - 245
2355923	Cyprodinil	97.1	75.5	P/P	50 - 150
2355923	Demeton	67.4	65.2	P/P	43 - 188
2355923	Diazinon	84.1	79.9	P/P	69 - 131
2355923	Difenoconazole	136	146	P/P	34 - 231
2355923	Dimethenamid	103	93.8	P/P	55 - 118
2355923	Dimethomorph	119	142	P/P	50 - 150
2355923	Disulfoton	73.5	62.9	P/P	38 - 141
2355923	Dithiopyr	111	97.6	P/P	42 - 116
2355923	EPTC	26.8	26.6	P/P	18 - 85.0

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P419392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355923	Ethion	97.3	84.7	P/P	10 - 131
2355923	Ethoprop	116	105	P/P	65 - 129
2355923	Etridiazole	81.6	82.8	P/P	50 - 150
2355923	Fenamiphos	114	104	P/P	31 - 137
2355923	Fenbuconazole	156	158	P/P	57 - 160
2355923	Fipronil Desulfinyl	120	102	P/P	57 - 131
2355923	Fluazifop-P-butyl	100	87.5	P/P	54 - 133
2355923	Fludioxonil	91.9	106	P/P	58 - 127
2355923	Flumioxazin	149	102	P/P	33 - 300
2355923	Flutolanil	89.1	81.6	P/P	42 - 130
2355923	Fluxapyroxad	84.1	54.9	P/P	23 - 141
2355923	Fonofos	75.3	63.9	P/P	58 - 119
2355923	Imazalil	202	167	P/P	48 - 283
2355923	Iprodione	91.5	85.9	P/P	38 - 140
2355923	Malathion	89.0	86.1	P/P	40 - 137
2355923	Metalaxyl	52.3	52.5	P/P	21 - 129
2355923	Metolachlor	60.2	60.0	P/P	55 - 122
2355923	Metribuzin	132	132	P/P	38 - 187
2355923	Mevinphos	107	90.8	P/P	54 - 134
2355923	Molinate	45.6	42.9	P/P	41 - 97.0
2355923	Myclobutanil	98.8	87.0	P/P	56 - 125
2355923	Naled	91.4	89.5	P/P	10 - 108
2355923	Napropamide	85.9	63.8	P/P	50 - 150
2355923	Norflurazon	122	104	P/P	32 - 122
2355923	Oxadiazon	50.4	45.9	P/P	40 - 119
2355923	Oxyfluorfen	164	143	F/P	61 - 153
2355923	Parathion Ethyl	99.6	92.4	P/P	59 - 130
2355923	Parathion Methyl	113	112	P/P	65 - 155
2355923	Pendimethalin	91.2	86.4	P/P	49 - 138
2355923	Phenytoin	141	41.3	P/F	50 - 200
2355923	Phorate	110	104	P/P	54 - 161
2355923	Prodiamine	55.2	61.0	P/P	33 - 161
2355923	Prometon	78.1	80.6	P/P	48 - 140
2355923	Prometryn	62.4	54.7	P/F	55 - 134
2355923	Pronamide	73.1	68.6	P/P	66 - 137
2355923	Propanil	121	120	P/P	50 - 150
2355923	Propargite	199	174	P/P	50 - 200
2355923	Propiconazole	141	141	P/P	36 - 150
2355923	Pyraflufen Ethyl	139	125	P/P	50 - 150
2355923	Pyridaben	189	175	P/P	50 - 200
2355923	Pyriproxyfen	94.0	92.1	P/P	10 - 165
2355923	Simazine	118	108	P/P	57 - 145
2355923	Stirophos	100	57.4	P/P	50 - 150
2355923	Sulfentrazone	80.1	57.7	P/P	34 - 140
2355923	Terbufos	129	121	P/P	59 - 138
2355923	Terbutylazine	115	116	P/P	68 - 119
2355923	Thiobencarb	121	107	P/P	50 - 150
2355923	Triadimefon	115	110	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P419792

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357199	Aldrin	65.9	55.4	P/P	20 - 82.0
2357199	Alpha-BHC	84.1	77.1	P/P	71 - 109
2357199	Alpha-Chlordane	67.7	62.0	P/P	42 - 106
2357199	Beta-BHC	82.6	91.1	P/P	69 - 180
2357199	Beta-Cyfluthrin	80.7	72.2	P/P	18 - 175
2357199	Bifenthrin	99.8	108	P/P	21 - 128
2357199	Chlorothalonil	109	87.8	P/P	10 - 300
2357199	Cis-Nonachlor	71.5	73.1	P/P	34 - 106
2357199	Cypermethrin	63.0	108	P/P	22 - 158
2357199	Dacthal	83.7	77.0	P/P	54 - 116
2357199	DDD-p,p'	56.5	107	P/P	34 - 107
2357199	DDE-p,p'	76.0	66.5	P/P	33 - 110
2357199	DDT-p,p'	70.6	67.4	P/P	50 - 122
2357199	Delta-BHC	108	96.4	P/P	77 - 193
2357199	Deltamethrin	105	101	P/P	10 - 195
2357199	Dichlobenil	62.4	62.3	P/P	25 - 113
2357199	Dicofol	62.6	104	P/P	38 - 247
2357199	Dieldrin	51.2	52.0	P/P	45 - 118
2357199	Endosulfan I	80.5	80.1	P/P	51 - 106
2357199	Endosulfan II	76.5	80.7	P/P	37 - 122
2357199	Endosulfan Sulfate	73.3	68.3	P/P	43 - 132
2357199	Endrin	82.7	67.3	P/P	29 - 101
2357199	Endrin Aldehyde	26.8	64.5	P/P	19 - 110
2357199	Endrin Ketone	82.7	91.3	P/P	60 - 140
2357199	Esfenvalerate	96.5	82.5	P/P	26 - 199
2357199	Ethalfuralin	66.7	67.8	P/P	45 - 99.0
2357199	Fenpropathrin	74.0	63.3	P/P	35 - 120
2357199	Gamma-BHC	90.8	91.3	P/P	63 - 128
2357199	Gamma-Chlordane	71.4	62.4	P/P	40 - 104
2357199	Heptachlor	66.2	63.7	P/P	36 - 97.0
2357199	Heptachlor Epoxide	51.4	55.8	P/P	49 - 184
2357199	Hexachlorobenzene	75.1	72.8	P/P	39 - 96.0
2357199	Kepone	155	137	P/P	10 - 217
2357199	Lambda-Cyhalothrin	64.5	121	P/P	21 - 193
2357199	Methoprene	72.6	73.7	P/P	20 - 106
2357199	Methoxychlor	85.4	78.8	P/P	53 - 118
2357199	MGK-264	77.8	72.8	P/P	40 - 118
2357199	Mirex	66.9	64.4	P/P	26 - 92.0
2357199	Oxychlordane	71.9	73.9	P/P	44 - 99.0
2357199	Permethrin	57.7	102	P/P	33 - 182
2357199	Phenothrin	60.8	85.9	P/P	10 - 129
2357199	Piperonyl Butoxide	90.5	68.8	P/P	10 - 211
2357199	Prallethrin	73.4	75.3	P/P	24 - 113
2357199	Tau-Fluvalinate	83.0	81.8	P/P	14 - 149
2357199	Tetramethrin	150	140	P/P	17 - 151
2357199	Trans-Nonachlor	75.0	66.1	P/P	42 - 102
2357199	Triclosan Methyl	83.2	66.9	P/P	48 - 108
2357199	Trifluralin	66.9	65.0	P/P	47 - 96.0
2357336	PCB-1016	105	107	P/P	46 - 111
2357336	PCB-1260	84.8	84.6	P/P	45 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359926	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	78.4	64.4	P/P	26 - 165
2359926	Avobenzone	58.3	55.8	P/P	37 - 178
2359926	Dechlorane Plus	110	86.5	P/P	50 - 150
2359926	Octinoxate	41.8	28.0	P/P	21 - 159
2359926	Oxybenzone	64.6	51.3	P/P	41 - 142
2359926	PBDE-47	60.6	48.9	P/P	27 - 144
2359926	PBDE-99	72.5	59.3	P/P	18 - 150
2359926	Tri-o-cresyl Phosphate	68.6	55.5	P/P	31 - 144

Reference Method: EPA 8276

Batch ID: P419360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355149	Chlordane	67.0	66.3	P/P	53 - 126
2355149	Toxaphene	75.7	74.5	P/P	56 - 211

Reference Method: EPA 8276

Batch ID: P419792

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357336	Chlordane	87.2	88.2	P/P	53 - 126
2357336	Toxaphene	89.5	86.3	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P419277

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2354901	2,4-D	86.1	96.6	P/P	40 - 150
2354901	2,4,5-T	81.1	92.7	P/P	40 - 150
2354901	Acetaminophen	54.7	48.6	P/P	30 - 150
2354901	Acetamiprid	68.7	71.1	P/P	40 - 150
2354901	Afidopyropen	34.7	38.1	P/P	30 - 150
2354901	Bentazon	99.5	111	P/P	30 - 150
2354901	Benzovindiflupyr	71.6	67.5	P/P	40 - 150
2354901	Carbamazepine	87.7	88.1	P/P	40 - 150
2354901	Clothianidin	71.5	67.8	P/P	40 - 150
2354901	Dinotefuran	75.2	73.0	P/P	40 - 150
2354901	Diuron	91.4	95.1	P/P	40 - 150
2354901	Fenuron	85.0	93.0	P/P	40 - 150
2354901	Fluridone	81.3	86.3	P/P	40 - 150
2354901	Hydrocodone	88.5	88.1	P/P	40 - 150
2354901	Ibuprofen	91.8	87.1	P/P	40 - 150
2354901	Imazapyr	89.1	92.7	P/P	40 - 150
2354901	Imidacloprid	77.6	74.4	P/P	40 - 150
2354901	Linuron	96.6	99.8	P/P	40 - 150
2354901	Mandestrobin	83.4	86.7	P/P	40 - 150
2354901	MCCP	94.9	98.8	P/P	40 - 150
2354901	Naproxen	92.4	152	P/F	40 - 150
2354901	Primidone	58.1	44.9	P/P	40 - 150
2354901	Pyraclostrobin	72.0	75.8	P/P	40 - 150
2354901	Silvex	75.5	83.5	P/P	40 - 150
2354901	Thiamethoxam	93.2	82.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P419277

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2354901	Tolfenpyrad	38.0	35.6	P/P	30 - 150
2354901	Triclopyr	66.3	80.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355147	Acesulfame K	77.2	75.8	P/P	40 - 150
2355147	AMPA	72.9	77.4	P/P	40 - 150
2355147	Endothall	125	120	P/P	40 - 150
2355147	Glufosinate	71.0	67.1	P/P	40 - 150
2355147	Glyphosate	98.0	106	P/P	40 - 150
2355147	Sucralose	95.3	93.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355419	3-Hydroxycarbofuran	45.0	93.8	P/P	40 - 150
2355419	Aldicarb	33.2	53.4	P/P	30 - 150
2355419	Aldicarb Sulfone	76.5	72.7	P/P	40 - 150
2355419	Aldicarb Sulfoxide	38.9	37.9	F/F	40 - 150
2355419	Carbaryl	62.9	60.6	P/P	40 - 150
2355419	Carbofuran	66.3	64.2	P/P	40 - 150
2355419	Methiocarb	90.2	80.1	P/P	40 - 150
2355419	Methomyl	79.4	71.0	P/P	40 - 150
2355419	Oxamyl	80.3	76.3	P/P	40 - 150
2355419	Propoxur	57.9	63.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355112	Fluoride	99.7	98.5	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P419771

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355410	Fluoride	98.2	98.8	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355126	Organic Carbon	96.5	96.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P419333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2354954	Color (true)	1.00	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355026	Turbidity	8.53	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P419409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355246	Calcium	4.90	Spike	P	0 - 20
2355246	Iron	2.43	Spike	P	0 - 20
2355246	Magnesium	2.84	Spike	P	0 - 20
2355246	Potassium	2.29	Spike	P	0 - 20
2355246	Sodium	2.44	Spike	P	0 - 20
2355246	Strontium	2.08	Spike	P	0 - 20
2355246	Tin	2.23	Spike	P	0 - 20
2355246	Titanium	2.84	Spike	P	0 - 20
2355246	Vanadium	3.33	Spike	P	0 - 20
2355246	Zinc	2.52	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355246	Antimony	2.11	Spike	P	0 - 20
2355246	Arsenic	1.45	Spike	P	0 - 20
2355246	Barium	1.08	Spike	P	0 - 20
2355246	Beryllium	1.58	Spike	P	0 - 20
2355246	Boron	1.02	Spike	P	0 - 20
2355246	Cadmium	1.50	Spike	P	0 - 20
2355246	Chromium	0.819	Spike	P	0 - 20
2355246	Cobalt	2.31	Spike	P	0 - 20
2355246	Copper	1.37	Spike	P	0 - 20
2355246	Lead	1.11	Spike	P	0 - 20
2355246	Manganese	1.14	Spike	P	0 - 20
2355246	Molybdenum	2.07	Spike	P	0 - 20
2355246	Nickel	1.95	Spike	P	0 - 20
2355246	Selenium	2.79	Spike	P	0 - 20
2355246	Silver	1.71	Spike	P	0 - 20
2355246	Thallium	0.302	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419671

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2354242	Aluminum	0.856	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419741

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355036	Chloride	0.346	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355036	Sulfate	1.07	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355233	Chloride	0.0390	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355233	Sulfate	0.337	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355074	Ammonia-N	0.158	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419629

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355235	Ammonia-N	0.450	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419454

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355075	Kjeldahl Nitrogen	1.65	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419455

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2354942	Kjeldahl Nitrogen	5.99	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355037	Kjeldahl Nitrogen	1.89	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355114	NO2NO3-N	1.66	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355127	Total-P	2.53	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P419360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355149	PCB-1016	0.723	Spike	P	0 - 32
2355149	PCB-1260	1.30	Spike	P	0 - 31
2355301	Aldrin	1.46	Spike	P	0 - 41
2355301	Alpha-BHC	3.48	Spike	P	0 - 25
2355301	Alpha-Chlordane	2.28	Spike	P	0 - 33
2355301	Beta-BHC	23.6	Spike	P	0 - 36
2355301	Beta-Cyfluthrin	1.75	Spike	P	0 - 42
2355301	Bifenthrin	19.3	Spike	P	0 - 53
2355301	Carbophenothion	0.944	Spike	P	0 - 30
2355301	Chlorothalonil	14.2	Spike	P	0 - 71
2355301	Cis-Nonachlor	2.33	Spike	P	0 - 29
2355301	Cypermethrin	3.30	Spike	P	0 - 40
2355301	Dacthal	2.64	Spike	P	0 - 26
2355301	DDD-p,p'	0.800	Spike	P	0 - 39
2355301	DDE-p,p'	0.555	Spike	P	0 - 33
2355301	DDT-p,p'	0.702	Spike	P	0 - 40
2355301	Delta-BHC	14.0	Spike	P	0 - 37
2355301	Deltamethrin	0.924	Spike	P	0 - 100
2355301	Dichlobenil	9.57	Spike	P	0 - 40
2355301	Dicofol	4.97	Spike	P	0 - 31
2355301	Dieldrin	3.08	Spike	P	0 - 27
2355301	Endosulfan I	2.44	Spike	P	0 - 23
2355301	Endosulfan II	1.52	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P419360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355301	Endosulfan Sulfate	16.0	Spike	P	0 - 38
2355301	Endrin	3.02	Spike	P	0 - 63
2355301	Endrin Aldehyde	13.6	Spike	P	0 - 60
2355301	Endrin Ketone	5.10	Spike	P	0 - 37
2355301	Esfenvalerate	4.77	Spike	P	0 - 52
2355301	Ethalfuralin	1.76	Spike	P	0 - 23
2355301	Fenpropathrin	6.41	Spike	P	0 - 32
2355301	Gamma-BHC	6.87	Spike	P	0 - 17
2355301	Gamma-Chlordane	1.80	Spike	P	0 - 40
2355301	Heptachlor	3.75	Spike	P	0 - 29
2355301	Heptachlor Epoxide	2.45	Spike	P	0 - 25
2355301	Hexachlorobenzene	3.70	Spike	P	0 - 36
2355301	Kepone	60.9	Spike	P	0 - 93
2355301	Lambda-Cyhalothrin	3.72	Spike	P	0 - 55
2355301	Methoprene	17.5	Spike	P	0 - 53
2355301	Methoxychlor	1.63	Spike	P	0 - 29
2355301	MGK-264	6.37	Spike	P	0 - 35
2355301	Mirex	5.47	Spike	P	0 - 46
2355301	Oxychlordane	1.60	Spike	P	0 - 29
2355301	Permethrin	8.01	Spike	P	0 - 44
2355301	Phenothrin	1.08	Spike	P	0 - 56
2355301	Piperonyl Butoxide	0.895	Spike	P	0 - 100
2355301	Prallethrin	6.48	Spike	P	0 - 42
2355301	Tau-Fluvalinate	7.23	Spike	P	0 - 54
2355301	Tetramethrin	0.982	Spike	P	0 - 51
2355301	Trans-Nonachlor	0.162	Spike	P	0 - 37
2355301	Triclosan Methyl	0.962	Spike	P	0 - 31
2355301	Trifluralin	1.88	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P419392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355923	Acetochlor	8.11	Spike	P	0 - 27
2355923	Alachlor	7.34	Spike	P	0 - 27
2355923	Ametryn	13.5	Spike	P	0 - 34
2355923	Atrazine	0.258	Spike	P	0 - 41
2355923	Atrazine Desethyl	1.78	Spike	P	0 - 38
2355923	Azinphos Methyl	7.47	Spike	P	0 - 62
2355923	Azoxystrobin	1.16	Spike	P	0 - 32
2355923	Bromacil	13.0	Spike	P	0 - 30
2355923	Butylate	13.7	Spike	P	0 - 59
2355923	Caffeine	3.21	Spike	P	0 - 60
2355923	Carbophenothion	5.14	Spike	P	0 - 25
2355923	Carfentrazone Ethyl	16.7	Spike	P	0 - 26
2355923	Chlorfenapyr	12.0	Spike	P	0 - 30
2355923	Chlorpyrifos Ethyl	20.3	Spike	P	0 - 27
2355923	Chlorpyrifos Methyl	13.0	Spike	P	0 - 26
2355923	Coumaphos	14.8	Spike	P	0 - 30
2355923	Cyanazine	1.37	Spike	P	0 - 58

Quality Assurance Report Precision

Reference Method: EPA 8270E
 Batch ID: P419392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355923	Cyprodinil	25.1	Spike	P	0 - 30
2355923	Demeton	3.35	Spike	P	0 - 25
2355923	Diazinon	5.19	Spike	P	0 - 29
2355923	Difenoconazole	6.73	Spike	P	0 - 25
2355923	Dimethenamid	9.76	Spike	P	0 - 30
2355923	Dimethomorph	17.6	Spike	P	0 - 30
2355923	Disulfoton	15.5	Spike	P	0 - 33
2355923	Dithiopyr	10.4	Spike	P	0 - 22
2355923	EPTC	0.938	Spike	P	0 - 38
2355923	Ethion	13.9	Spike	P	0 - 79
2355923	Ethoprop	9.69	Spike	P	0 - 23
2355923	Etridiazole	1.45	Spike	P	0 - 30
2355923	Fenamiphos	9.43	Spike	P	0 - 58
2355923	Fenbuconazole	1.38	Spike	P	0 - 37
2355923	Fipronil	4.77	Spike	P	0 - 33
2355923	Fipronil Desulfinyl	13.4	Spike	P	0 - 26
2355923	Fipronil Sulfide	1.35	Spike	P	0 - 37
2355923	Fipronil Sulfone	2.49	Spike	P	0 - 50
2355923	Fluazifop-P-butyl	13.5	Spike	P	0 - 24
2355923	Fludioxonil	10.3	Spike	P	0 - 26
2355923	Flumioxazin	36.9	Spike	P	0 - 37
2355923	Flutolanil	8.50	Spike	P	0 - 26
2355923	Fluxapyroxad	39.9	Spike	F	0 - 34
2355923	Fonofos	16.5	Spike	P	0 - 27
2355923	Hexazinone	9.03	Spike	P	0 - 36
2355923	Imazalil	19.3	Spike	P	0 - 65
2355923	Iprodione	6.30	Spike	P	0 - 33
2355923	Loratadine	27.8	Spike	P	0 - 30
2355923	Malathion	3.25	Spike	P	0 - 44
2355923	Metalaxyl	0.368	Spike	P	0 - 38
2355923	Metolachlor	0.337	Spike	P	0 - 36
2355923	Metribuzin	0.145	Spike	P	0 - 63
2355923	Mevinphos	16.3	Spike	P	0 - 26
2355923	Molinate	6.14	Spike	P	0 - 40
2355923	Myclobutanil	11.8	Spike	P	0 - 21
2355923	Naled	2.04	Spike	P	0 - 26
2355923	Napropamide	29.6	Spike	P	0 - 30
2355923	Norflurazon	15.9	Spike	P	0 - 24
2355923	Oxadiazon	9.39	Spike	P	0 - 27
2355923	Oxyfluorfen	13.4	Spike	P	0 - 24
2355923	Parathion Ethyl	7.48	Spike	P	0 - 28
2355923	Parathion Methyl	1.32	Spike	P	0 - 27
2355923	Pendimethalin	5.45	Spike	P	0 - 31
2355923	Phenytoin	60.3	Spike	F	0 - 30
2355923	Phorate	5.02	Spike	P	0 - 27
2355923	Prodiamine	9.88	Spike	P	0 - 52
2355923	Prometon	3.24	Spike	P	0 - 31
2355923	Prometryn	13.2	Spike	P	0 - 28
2355923	Pronamide	6.41	Spike	P	0 - 26
2355923	Propanil	0.850	Spike	P	0 - 30
2355923	Propargite	12.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P419392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355923	Propiconazole	0.293	Spike	P	0 - 31
2355923	Pyraflufen Ethyl	10.2	Spike	P	0 - 30
2355923	Pyridaben	7.45	Spike	P	0 - 30
2355923	Pyriproxyfen	2.01	Spike	P	0 - 50
2355923	Simazine	8.52	Spike	P	0 - 29
2355923	Stirophos	54.4	Spike	F	0 - 30
2355923	Sulfentrazone	18.6	Spike	P	0 - 33
2355923	Tebuconazole	29.1	Spike	P	0 - 44
2355923	Terbufos	5.97	Spike	P	0 - 29
2355923	Terbuthylazine	1.52	Spike	P	0 - 27
2355923	Thiobencarb	12.2	Spike	P	0 - 30
2355923	Triadimefon	4.60	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P419792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357199	Aldrin	17.3	Spike	P	0 - 41
2357199	Alpha-BHC	8.33	Spike	P	0 - 25
2357199	Alpha-Chlordane	5.56	Spike	P	0 - 33
2357199	Beta-BHC	8.33	Spike	P	0 - 36
2357199	Beta-Cyfluthrin	11.1	Spike	P	0 - 42
2357199	Bifenthrin	7.59	Spike	P	0 - 53
2357199	Chlorothalonil	21.9	Spike	P	0 - 71
2357199	Cis-Nonachlor	2.26	Spike	P	0 - 29
2357199	Cypermethrin	52.3	Spike	F	0 - 40
2357199	Dacthal	8.31	Spike	P	0 - 26
2357199	DDD-p,p'	61.7	Spike	F	0 - 39
2357199	DDE-p,p'	13.3	Spike	P	0 - 33
2357199	DDT-p,p'	4.62	Spike	P	0 - 40
2357199	Delta-BHC	10.7	Spike	P	0 - 37
2357199	Deltamethrin	4.48	Spike	P	0 - 100
2357199	Dichlobenil	0.228	Spike	P	0 - 40
2357199	Dicofol	49.7	Spike	F	0 - 31
2357199	Dieldrin	0.482	Spike	P	0 - 27
2357199	Endosulfan I	0.451	Spike	P	0 - 23
2357199	Endosulfan II	5.31	Spike	P	0 - 28
2357199	Endosulfan Sulfate	7.13	Spike	P	0 - 38
2357199	Endrin	20.5	Spike	P	0 - 63
2357199	Endrin Aldehyde	82.6	Spike	F	0 - 60
2357199	Endrin Ketone	9.42	Spike	P	0 - 37
2357199	Esfenvalerate	15.6	Spike	P	0 - 52
2357199	Ethalfuralin	1.66	Spike	P	0 - 23
2357199	Fenpropathrin	15.5	Spike	P	0 - 32
2357199	Gamma-BHC	0.510	Spike	P	0 - 17
2357199	Gamma-Chlordane	9.98	Spike	P	0 - 40
2357199	Heptachlor	3.86	Spike	P	0 - 29
2357199	Heptachlor Epoxide	2.67	Spike	P	0 - 25
2357199	Hexachlorobenzene	3.14	Spike	P	0 - 36
2357199	Kepone	11.9	Spike	P	0 - 93

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P419792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357199	Lambda-Cyhalothrin	61.1	Spike	F	0 - 55
2357199	Methoprene	1.51	Spike	P	0 - 53
2357199	Methoxychlor	6.90	Spike	P	0 - 29
2357199	MGK-264	6.04	Spike	P	0 - 35
2357199	Mirex	3.87	Spike	P	0 - 46
2357199	Oxychlordane	2.80	Spike	P	0 - 29
2357199	Permethrin	55.8	Spike	F	0 - 44
2357199	Phenothrin	34.3	Spike	P	0 - 56
2357199	Piperonyl Butoxide	21.1	Spike	P	0 - 100
2357199	Prallethrin	2.62	Spike	P	0 - 42
2357199	Tau-Fluvalinate	1.43	Spike	P	0 - 54
2357199	Tetramethrin	7.19	Spike	P	0 - 51
2357199	Trans-Nonachlor	11.4	Spike	P	0 - 37
2357199	Triclosan Methyl	21.8	Spike	P	0 - 31
2357199	Trifluralin	2.89	Spike	P	0 - 30
2357336	PCB-1016	1.67	Spike	P	0 - 32
2357336	PCB-1260	0.243	Spike	P	0 - 31

Reference Method: EPA 8270E
Batch ID: P420385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359926	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	19.6	Spike	P	0 - 37
2359926	Avobenzene	4.42	Spike	P	0 - 36
2359926	Dechlorane Plus	23.5	Spike	P	0 - 30
2359926	Octinoxate	21.8	Spike	P	0 - 45
2359926	Oxybenzone	23.1	Spike	P	0 - 46
2359926	PBDE-47	21.4	Spike	P	0 - 36
2359926	PBDE-99	20.0	Spike	P	0 - 40
2359926	Tri-o-cresyl Phosphate	21.2	Spike	P	0 - 33

Reference Method: EPA 8276
Batch ID: P419360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355149	Chlordane	1.04	Spike	P	0 - 25
2355149	Toxaphene	1.51	Spike	P	0 - 26

Reference Method: EPA 8276
Batch ID: P419792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357336	Chlordane	1.11	Spike	P	0 - 25
2357336	Toxaphene	3.64	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P419277

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2354901	2,4-D	11.4	Spike	P	0 - 30
2354901	2,4,5-T	13.3	Spike	P	0 - 30
2354901	Acetaminophen	11.9	Spike	P	0 - 30
2354901	Acetamiprid	3.53	Spike	P	0 - 30
2354901	Afidopyropen	9.19	Spike	P	0 - 30
2354901	Bentazon	9.74	Spike	P	0 - 30
2354901	Benzovindiflupyr	5.97	Spike	P	0 - 30
2354901	Carbamazepine	0.477	Spike	P	0 - 30
2354901	Clothianidin	5.31	Spike	P	0 - 30
2354901	Dinotefuran	2.97	Spike	P	0 - 30
2354901	Diuron	3.96	Spike	P	0 - 30
2354901	Fenuron	8.93	Spike	P	0 - 30
2354901	Fluridone	6.01	Spike	P	0 - 30
2354901	Hydrocodone	0.505	Spike	P	0 - 30
2354901	Ibuprofen	5.20	Spike	P	0 - 30
2354901	Imazapyr	3.61	Spike	P	0 - 30
2354901	Imidacloprid	4.27	Spike	P	0 - 30
2354901	Linuron	3.33	Spike	P	0 - 30
2354901	Mandestrobin	3.81	Spike	P	0 - 30
2354901	MCPP	4.07	Spike	P	0 - 30
2354901	Naproxen	48.7	Spike	F	0 - 30
2354901	Primidone	25.6	Spike	P	0 - 30
2354901	Pyraclostrobin	5.18	Spike	P	0 - 30
2354901	Silvex	10.0	Spike	P	0 - 30
2354901	Thiamethoxam	12.5	Spike	P	0 - 30
2354901	Tolfenpyrad	6.67	Spike	P	0 - 30
2354901	Triclopyr	18.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P419298

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355147	Acesulfame K	1.94	Spike	P	0 - 30
2355147	AMPA	4.72	Spike	P	0 - 30
2355147	Endothall	4.22	Spike	P	0 - 30
2355147	Glufosinate	5.58	Spike	P	0 - 30
2355147	Glyphosate	5.26	Spike	P	0 - 30
2355147	Sucralose	2.23	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P419489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355419	3-Hydroxycarbofuran	70.3	Spike	F	0 - 30
2355419	Aldicarb	46.8	Spike	F	0 - 30
2355419	Aldicarb Sulfone	5.04	Spike	P	0 - 30
2355419	Aldicarb Sulfoxide	2.45	Spike	P	0 - 30
2355419	Carbaryl	3.75	Spike	P	0 - 30
2355419	Carbofuran	3.25	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P419489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355419	Methiocarb	11.9	Spike	P	0 - 30
2355419	Methomyl	11.1	Spike	P	0 - 30
2355419	Oxamyl	5.09	Spike	P	0 - 30
2355419	Propoxur	8.77	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P419620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355112	Total Alkalinity	1.74	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P419767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355410	Total Alkalinity	1.90	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P419659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355112	TDS	3.30	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355112	Fluoride	0.953	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P419771

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355410	Fluoride	0.474	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355126	Organic Carbon	0.260	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2355145
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	65.1	P	30 - 160

Lab Sample ID: 2355146
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	34.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.8	P	30 - 160
EPA 8321B	Diuron-d6	83.6	P	30 - 160
EPA 8321B	Endothall-d6	79.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.0	P	30 - 160
EPA 8321B	Primidone-d5	38.2	P	30 - 160
EPA 8321B	Sucralose-d6	94.4	P	30 - 160

Lab Sample ID: 2355147
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	108	P	30 - 160
EPA 8321B	Acetaminophen-d4	43.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	64.6	P	30 - 160
EPA 8321B	Diuron-d6	87.7	P	30 - 160
EPA 8321B	Endothall-d6	141	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	99.2	P	30 - 160
EPA 8321B	Primidone-d5	37.9	P	30 - 160
EPA 8321B	Sucralose-d6	93.9	P	30 - 160

Lab Sample ID: 2355149
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	83.1	P	29 - 130
EPA 8270E	Decachlorobiphenyl	1.21	F	29 - 130
EPA 8270E	Decachlorobiphenyl	64.7	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	46.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	0.256	F	29 - 104
EPA 8270E	Tetrachloro-m-xylene	50.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	61.5	P	30 - 101
EPA 8276	Decachlorobiphenyl	1.92	F	30 - 101
EPA 8276	PCNB	76.3	P	48 - 121
EPA 8276	PCNB	2.04	F	48 - 121

Lab Sample ID: 2355150
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	86.3	P	20 - 200
EPA 8270E	Simazine-d10	104	P	71 - 140
EPA 8270E	Terbufos-d10	69.3	P	62 - 131

Quality Assurance Report Surrogates

Lab Sample ID: 2355150
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Terphenyl-d14	74.3	P	52 - 137
EPA 8270E	Terphenyl-d14	89.1	P	52 - 141

Lab Sample ID: 2355151
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	61.7	P	29 - 130
EPA 8270E	Decachlorobiphenyl	66.8	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	64.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	63.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	62.6	P	30 - 101
EPA 8276	PCNB	87.3	P	48 - 121

Lab Sample ID: 2355152
Field Sample ID: FB_09072022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	104	P	20 - 200
EPA 8270E	Simazine-d10	108	P	71 - 140
EPA 8270E	Terbufos-d10	93.1	P	62 - 131
EPA 8270E	Terphenyl-d14	69.0	P	52 - 137
EPA 8270E	Terphenyl-d14	82.6	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A114605

Included Lab Sample IDs: 2355146, 2355147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	114	P/P	50 - 150
2,4-D	112	105	P/P	50 - 150
2,4,5-T	124	117	P/P	50 - 150
2,4,5-T	131	112	P/P	50 - 150
Acetaminophen	79.2	90.3	P/P	60 - 160
Acetaminophen	80.4	87.8	P/P	60 - 160
Acetamiprid	101	104	P/P	50 - 150
Acetamiprid	72.5	106	P/P	50 - 150
Afidopyropen	146	143	P/P	50 - 150
Afidopyropen	147	147	P/P	50 - 150
Bentazon	110	108	P/P	50 - 160
Bentazon	113	106	P/P	50 - 160
Benzovindiflupyr	87.4	101	P/P	50 - 150
Benzovindiflupyr	89.8	91.2	P/P	50 - 150
Carbamazepine	103	102	P/P	60 - 150
Carbamazepine	121	129	P/P	60 - 150
Clothianidin	128	120	P/P	60 - 150
Clothianidin	84.3	109	P/P	60 - 150
Dinotefuran	81.7	106	P/P	50 - 150
Dinotefuran	87.1	81.6	P/P	50 - 150
Diuron	110	107	P/P	60 - 160
Diuron	123	124	P/P	60 - 160
Fenuron	92.1	88.9	P/P	60 - 150
Fenuron	96.2	96.9	P/P	60 - 150
Fluridone	93.6	96.7	P/P	60 - 160
Fluridone	97.9	120	P/P	60 - 160
Hydrocodone	107	109	P/P	60 - 150
Hydrocodone	94.9	110	P/P	60 - 150
Ibuprofen	106	113	P/P	50 - 160
Ibuprofen	110	94.1	P/P	50 - 160
Imazapyr	83.9	95.5	P/P	50 - 150
Imazapyr	93.5	93.8	P/P	50 - 150
Imidacloprid	110	99.6	P/P	60 - 150
Imidacloprid	122	86.0	P/P	60 - 150
Linuron	107	129	P/P	60 - 150
Linuron	110	116	P/P	60 - 150
Mandestrobin	84.9	95.9	P/P	50 - 150
Mandestrobin	93.4	91.3	P/P	50 - 150
MCPP	130	119	P/P	50 - 150
MCPP	99.1	104	P/P	50 - 150
Naproxen	138	125	P/P	50 - 160
Naproxen	142	130	P/P	50 - 160
Primidone	139	82.5	P/P	60 - 150
Primidone	88.6	77.8	P/P	60 - 150
Pyraclostrobin	86.9	96.4	P/P	60 - 150
Pyraclostrobin	96.2	93.8	P/P	60 - 150
Silvex	115	103	P/P	50 - 150
Silvex	91.1	91.6	P/P	50 - 150
Thiamethoxam	106	111	P/P	50 - 150
Thiamethoxam	95.3	95.3	P/P	50 - 150
Tolfenpyrad	80.1	89.9	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A114605

Included Lab Sample IDs: 2355146, 2355147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tolfenpyrad	94.9	94.8	P/P	60 - 150
Triclopyr	124	105	P/P	50 - 150
Triclopyr	99.3	99.1	P/P	50 - 150

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114618

Included Lab Sample IDs: 2355124, 2355125, 2355128, 2355130

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

Reference Method: DEP SOP: NU-094-1

Run ID: A114621

Included Lab Sample IDs: 2355124, 2355125, 2355128, 2355130

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	93.5	94.9	P/P	90 - 110
Color (true)	93.7	92.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114704

Included Lab Sample IDs: 2355157

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	100	101	P/P	90 - 110
Arsenic	102	102	P/P	90 - 110
Barium	99.2	102	P/P	90 - 110
Beryllium	99.3	98.4	P/P	90 - 110
Boron	97.1	98.4	P/P	90 - 110
Cadmium	102	103	P/P	90 - 110
Chromium	103	104	P/P	90 - 110
Cobalt	96.8	96.2	P/P	90 - 110
Copper	99.9	99.6	P/P	90 - 110
Lead	90.2	90.1	P/P	90 - 110
Manganese	102	104	P/P	90 - 110
Molybdenum	97.4	96.7	P/P	90 - 110
Nickel	99.8	98.8	P/P	90 - 110
Selenium	101	103	P/P	90 - 110
Silver	95.5	95.7	P/P	90 - 110
Thallium	101	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114709

Included Lab Sample IDs: 2355146, 2355147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	105	103	P/P	60 - 160
Acesulfame K	95.7	105	P/P	60 - 160
Sucralose	92.3	89.0	P/P	60 - 160
Sucralose	93.0	92.3	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A114710

Included Lab Sample IDs: 2355146, 2355147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	92.0	97.2	P/P	60 - 160
AMPA	97.2	102	P/P	60 - 160
Endothall	68.3	67.5	P/P	60 - 160
Endothall	82.9	68.3	P/P	60 - 160
Glufosinate	64.3	69.7	P/P	60 - 160
Glufosinate	76.8	64.3	P/P	60 - 160
Glyphosate	101	99.0	P/P	60 - 160
Glyphosate	107	101	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114711

Included Lab Sample IDs: 2355126, 2355127, 2355129, 2355131

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

Reference Method: SM 5310 B-2011

Run ID: A114720

Included Lab Sample IDs: 2355126, 2355127, 2355129, 2355131

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.3	96.6	P/P	90 - 110
Organic Carbon	96.4	96.3	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114728

Included Lab Sample IDs: 2355157

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	100	104	P/P	90 - 110
Potassium	102	105	P/P	90 - 110
Sodium	100	102	P/P	90 - 110
Strontium	99.2	99.6	P/P	90 - 110
Tin	101	102	P/P	90 - 110
Titanium	98.3	97.6	P/P	90 - 110
Vanadium	97.9	98.3	P/P	90 - 110
Zinc	97.5	97.1	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A114739

Included Lab Sample IDs: 2355124, 2355125

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	97.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114739

Included Lab Sample IDs: 2355124, 2355125

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A114740
Included Lab Sample IDs: 2355145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	113	133	P/P	60 - 150
Aldicarb	95.9	123	P/P	60 - 150
Aldicarb Sulfone	107	117	P/P	50 - 150
Aldicarb Sulfoxide	111	115	P/P	50 - 150
Carbaryl	106	116	P/P	60 - 150
Carbofuran	111	117	P/P	50 - 150
Methiocarb	118	128	P/P	50 - 150
Methomyl	112	122	P/P	50 - 150
Oxamyl	118	106	P/P	50 - 150
Propoxur	112	106	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114742
Included Lab Sample IDs: 2355127, 2355129

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.6	101	P/P	90 - 110
Kjeldahl Nitrogen	99.2	96.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114744
Included Lab Sample IDs: 2355126, 2355127, 2355129, 2355131

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.2	P/P	90 - 110
Ammonia-N	99.1	99.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114750
Included Lab Sample IDs: 2355126, 2355131

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114752
Included Lab Sample IDs: 2355127, 2355129, 2355131

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114755
Included Lab Sample IDs: 2355126

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	97.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A114763
 Included Lab Sample IDs: 2355151

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.1		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	97.5		P	80 - 120
Beta-BHC	97.2		P	80 - 120
Beta-Cyfluthrin	97.6		P	80 - 120
Bifenthrin	119		P	80 - 120
Carbophenothion	99.8		P	80 - 120
Chlorothalonil	109		P	80 - 120
Cis-Nonachlor	95.9		P	80 - 120
Cypermethrin	97.5		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	96.8		P	80 - 120
DDE-p,p'	99.3		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	104		P	80 - 120
Dicofol	89.5		P	80 - 120
Dieldrin	96.0		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	97.9		P	80 - 120
Endosulfan Sulfate	96.8		P	80 - 120
Endrin	99.0		P	80 - 120
Endrin Aldehyde	85.0		P	80 - 120
Endrin Ketone	91.1		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	98.1		P	80 - 120
Fenpropathrin	120		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	98.0		P	80 - 120
Heptachlor	94.3		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	98.4		P	80 - 120
Kepone	85.8		P	80 - 120
Lambda-Cyhalothrin	98.2		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	126*		F	80 - 120
MGK-264	99.9		P	80 - 120
Mirex	98.8		P	80 - 120
Oxychlordane	99.2		P	80 - 120
Permethrin	95.8		P	80 - 120
Phenothrin	91.7		P	80 - 120
Piperonyl Butoxide	102		P	80 - 120
Prallethrin	91.8		P	80 - 120
Tau-Fluvalinate	99.4		P	80 - 120
Tetramethrin	137*		F	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	99.5		P	80 - 120
Trifluralin	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114771

Included Lab Sample IDs: 2355157

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Magnesium	98.9	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114789

Included Lab Sample IDs: 2355124, 2355125, 2355128, 2355130

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	103	P/P	90 - 110
Chloride	99.8	100	P/P	90 - 110
Sulfate	102	103	P/P	90 - 110
Sulfate	99.7	100	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A114794

Included Lab Sample IDs: 2355151

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.4		P	80 - 120
Toxaphene	98.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114798

Included Lab Sample IDs: 2355157

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.3	96.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A114801

Included Lab Sample IDs: 2355128, 2355130

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	96.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114801

Included Lab Sample IDs: 2355128, 2355130

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

Reference Method: EPA 8270E

Run ID: A114821

Included Lab Sample IDs: 2355150, 2355152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	113		P	80 - 120
Atrazine Desethyl	99.7		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E

Run ID: A114821

Included Lab Sample IDs: 2355150, 2355152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azinphos Methyl	111		P	80 - 120
Azoxystrobin	93.4		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	108		P	80 - 120
Caffeine	95.1		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120
Chlorfenapyr	105		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	99.5		P	80 - 120
Coumaphos	92.9		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	105		P	80 - 120
Difenoconazole	100		P	80 - 120
Dimethomorph	96.8		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	107		P	80 - 120
EPTC	100		P	80 - 120
Ethion	100		P	80 - 120
Ethoprop	99.0		P	80 - 120
Etridiazole	99.6		P	80 - 120
Fenamiphos	108		P	80 - 120
Fenbuconazole	96.2		P	80 - 120
Fipronil	105		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	106		P	80 - 120
Fluazifop-P-butyl	104		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	88.7		P	80 - 120
Flutolanil	99.8		P	80 - 120
Fluxapyroxad	117		P	80 - 120
Fonofos	92.6		P	80 - 120
Hexazinone	99.9		P	80 - 120
Imazalil	96.7		P	80 - 120
Iprodione	93.6		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	91.4		P	80 - 120
Metalaxyl	105		P	80 - 120
Metribuzin	106		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	104		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	95.6		P	80 - 120
Napropamide	98.2		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A114821

Included Lab Sample IDs: 2355150, 2355152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Parathion Methyl	104		P	80 - 120
Pendimethalin	102		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	110		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	95.0		P	80 - 120
Propanil	100		P	80 - 120
Propargite	103		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	96.3		P	80 - 120
Pyridaben	96.3		P	80 - 120
Pyriproxyfen	97.2		P	80 - 120
Simazine	99.2		P	80 - 120
Stirophos	103		P	80 - 120
Sulfentrazone	98.6		P	80 - 120
Tebuconazole	113		P	80 - 120
Terbufos	98.4		P	80 - 120
Terbutylazine	102		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	94.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114834

Included Lab Sample IDs: 2355150, 2355152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.7		P	80 - 120
Dimethenamid	108		P	80 - 120
Fonofos	99.3		P	80 - 120
Metolachlor	106		P	80 - 120
Phenytoin	104		P	80 - 120
Tebuconazole	107		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114846

Included Lab Sample IDs: 2355151

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.1		P	80 - 120
PCB-1260	88.9		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114877

Included Lab Sample IDs: 2355149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	100		P	80 - 120
PCB-1260	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A114906
 Included Lab Sample IDs: 2355149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.6		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	99.1		P	80 - 120
Beta-Cyfluthrin	96.5		P	80 - 120
Bifenthrin	94.9		P	80 - 120
Chlorothalonil	102		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	101		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	109		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	98.3		P	80 - 120
Deltamethrin	95.6		P	80 - 120
Dichlobenil	96.9		P	80 - 120
Dicofol	99.9		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	97.8		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	99.6		P	80 - 120
Endrin Ketone	91.4		P	80 - 120
Esfenvalerate	100		P	80 - 120
Ethalfuralin	105		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	108		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	97.3		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	98.1		P	80 - 120
Kepone	109		P	80 - 120
Lambda-Cyhalothrin	97.9		P	80 - 120
Methoprene	99.0		P	80 - 120
Methoxychlor	96.7		P	80 - 120
MGK-264	100		P	80 - 120
Mirex	101		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	100		P	80 - 120
Phenothrin	98.0		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	97.6		P	80 - 120
Tau-Fluvalinate	97.7		P	80 - 120
Tetramethrin	90.8		P	80 - 120
Trans-Nonachlor	106		P	80 - 120
Triclosan Methyl	97.4		P	80 - 120
Trifluralin	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276
Run ID: A114908
Included Lab Sample IDs: 2355149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	94.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A115103
Included Lab Sample IDs: 2355150, 2355152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	87.2		P	80 - 120
Avobenzene	99.8		P	80 - 120
Dechlorane Plus	94.1		P	80 - 120
Octinoxate	86.8		P	80 - 120
Oxybenzone	87.7		P	80 - 120
PBDE-47	87.9		P	80 - 120
PBDE-99	86.7		P	80 - 120
Tri-o-cresyl Phosphate	90.3		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	92.3					1.00	
EPA 180.1 Rev. 2.0	Turbidity	96.4					8.53	
EPA 200.7 Rev. 4.4	Calcium	103	109	85.0	107			4.90
	Iron	106	108	106	107			2.43
	Magnesium	106	107	102	108			2.84
	Potassium	106	106	102	108			2.29
	Sodium	105	102	104				2.44
	Strontium	103	103	101	103			2.08
	Tin	107	107	104	106			2.23
	Titanium	103	105	102	102			2.84
	Vanadium	102	104	100	101			3.33
	Zinc	102	101	98.9	101			2.52
EPA 200.8 Rev. 5.4	Aluminum	99.1	97.8	98.9	99.1			0.856
	Antimony	102	104	102	107			2.11
	Arsenic	102	102	101	104			1.45
	Barium	105	105	104	109			1.08
	Beryllium	100	98.4	96.8	98.4			1.58
	Boron	101	105	105	103			1.02
	Cadmium	98.8	99.8	98.3	103			1.50
	Chromium	100	106	105	106			0.819
	Cobalt	96.5	97.3	95.0	98.7			2.31
	Copper	99.4	98.5	97.2	102			1.37
	Lead	91.8	93.8	92.8	95.5			1.11
	Manganese	98.9	104	100	104			1.14
	Molybdenum	97.6	100	98.0	101			2.07
	Nickel	101	101	99.0	101			1.95
	Selenium	102	102	99.2	104			2.79
	Silver	88.3	88.3	86.8	90.8			1.71
	Thallium	97.4	99.5	99.8	101			0.302
EPA 300.0 Rev. 2.1	Chloride	102	103	101			0.346	
	Chloride	99.4	97.6	97.1			0.0390	
	Sulfate	100	101	100			1.07	
	Sulfate	98.6	98.7	95.1			0.337	
EPA 350.1 Rev. 2.0	Ammonia-N	98.0	96.2	96.4				0.158
	Ammonia-N	97.0	97.2	97.8				0.450
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	109	105				1.65
	Kjeldahl Nitrogen	106						5.99
	Kjeldahl Nitrogen	99.4	105	108				1.89
EPA 353.2 Rev. 2.0	NO2NO3-N	101	96.5	99.0				1.66
EPA 365.1 Rev. 2.0	Total-P	102	97.7	102				2.53
EPA 8270E	2-Ethylhexyl	90.4	78.4	64.4				19.6
	2,3,4,5-tetrabromobenzoate (EHTBB)							
	Acetochlor	86.6	105	97.1				8.11
	Alachlor	79.9	120	112				7.34
	Aldrin	57.5	75.3	74.2				1.46
	Aldrin	46.7	65.9	55.4				17.3
	Alpha-BHC	86.5	91.7	94.9				3.48
	Alpha-BHC	83.2	84.1	77.1				8.33
	Alpha-Chlordane	74.8	90.2	88.2				2.28
	Alpha-Chlordane	67.3	67.7	62.0				5.56
	Ametryn	79.2	103	118				13.5
	Atrazine	81.1						0.258
	Atrazine Desethyl	61.3	38.5	37.8				1.78

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Avobenzene	96.4	58.3	55.8		4.42
	Azinphos Methyl	109	142	153		7.47
	Azoxystrobin	104	220	217		1.16
	Beta-BHC	116	84.0	106		23.6
	Beta-BHC	112	82.6	91.1		8.33
	Beta-Cyfluthrin	63.8	89.6	91.2		1.75
	Beta-Cyfluthrin	59.0	80.7	72.2		11.1
	Bifenthrin	46.8	97.2	80.1		19.3
	Bifenthrin	36.6	99.8	108		7.59
	Bromacil	108	90.1	79.1		13.0
	Butylate	40.8	20.4	23.4		13.7
	Caffeine	72.6				3.21
	Carbophenothion	56.0	75.9	75.2		0.944
	Carbophenothion	81.0	99.6	94.6		5.14
	Carfentrazone Ethyl	88.8	136	115		16.7
	Chlorfenapyr	83.3	90.4	77.6		12.0
	Chlorothalonil	133	126	145		14.2
	Chlorothalonil	65.0	109	87.8		21.9
	Chlorpyrifos Ethyl	106	115	94.0		20.3
	Chlorpyrifos Methyl	93.1	101	88.3		13.0
	Cis-Nonachlor	58.0	67.2	65.6		2.33
	Cis-Nonachlor	65.2	71.5	73.1		2.26
	Coumaphos	144	146	126		14.8
	Cyanazine	130	220	217		1.37
	Cypermethrin	45.9	67.2	69.5		3.30
	Cypermethrin	62.6	63.0	108		52.3
	Cyprodinil	107	97.1	75.5		25.1
	Dacthal	94.6	89.3	91.7		2.64
	Dacthal	85.6	83.7	77.0		8.31
	DDD-p,p'	47.0	51.2	50.8		0.800
	DDD-p,p'	82.9	56.5	107		61.7
	DDE-p,p'	74.2	85.7	86.2		0.555
	DDE-p,p'	68.3	76.0	66.5		13.3
	DDT-p,p'	71.9	82.8	83.4		0.702
	DDT-p,p'	65.5	70.6	67.4		4.62
	Dechlorane Plus	123	110	86.5		23.5
	Delta-BHC	135	115	132		14.0
	Delta-BHC	115	108	96.4		10.7
	Deltamethrin	80.5	117	116		0.924
	Deltamethrin	57.1	105	101		4.48
	Demeton	85.9	67.4	65.2		3.35
	Diazinon	118	84.1	79.9		5.19
	Dichlobenil	92.9	57.2	63.0		9.57
	Dichlobenil	89.0	62.3	62.4		0.228
	Dicofol	37.0	49.2	46.8		4.97
	Dicofol	81.0	104	62.6		49.7
	Dieldrin	55.7	64.1	62.2		3.08
	Dieldrin	75.8	51.2	52.0		0.482
	Difenoconazole	112	136	146		6.73
	Dimethenamid	69.5	103	93.8		9.76
	Dimethomorph	89.4	119	142		17.6
	Disulfoton	80.3	73.5	62.9		15.5
	Dithiopyr	92.7	111	97.6		10.4
	Endosulfan I	84.1	94.4	92.2		2.44

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Endosulfan I	75.1	80.5	80.1			0.451
	Endosulfan II	85.2	81.8	83.1			1.52
	Endosulfan II	81.0	76.5	80.7			5.31
	Endosulfan Sulfate	97.1	78.7	92.4			16.0
	Endosulfan Sulfate	92.8	68.3	73.3			7.13
	Endrin	83.8	92.0	89.2			3.02
	Endrin	70.2	67.3	82.7			20.5
	Endrin Aldehyde	61.2	45.5	52.2			13.6
	Endrin Aldehyde	83.4	64.5	26.8			82.6
	Endrin Ketone	90.9	80.1	84.3			5.10
	Endrin Ketone	94.3	91.3	82.7			9.42
	EPTC	46.8	26.8	26.6			0.938
	Esfenvalerate	68.5	101	106			4.77
	Esfenvalerate	54.3	82.5	96.5			15.6
	Ethalfuralin	63.7	72.8	71.5			1.76
	Ethalfuralin	70.7	67.8	66.7			1.66
	Ethion	86.8	97.3	84.7			13.9
	Ethoprop	84.1	116	105			9.69
	Etridiazole	50.6	81.6	82.8			1.45
	Fenamiphos	85.0	114	104			9.43
	Fenbuconazole	111	158	156			1.38
	Fenpropathrin	58.6	80.4	75.4			6.41
	Fenpropathrin	62.2	63.3	74.0			15.5
	Fipronil	55.0					4.77
	Fipronil Desulfinyl	72.4	120	102			13.4
	Fipronil Sulfide	52.5					1.35
	Fipronil Sulfone	70.1					2.49
	Fluazifop-P-butyl	87.8	100	87.5			13.5
	Fludioxonil	86.3	91.9	106			10.3
	Flumioxazin	98.3	149	102			36.9
	Flutolanil	89.7	89.1	81.6			8.50
	Fluxapyroxad	104	84.1	54.9			39.9
	Fonofos	81.6	75.3	63.9			16.5
	Gamma-BHC	97.3	94.4	101			6.87
	Gamma-BHC	85.7	91.3	90.8			0.510
	Gamma-Chlordane	71.5	79.6	81.2			1.80
	Gamma-Chlordane	68.4	62.4	71.4			9.98
	Heptachlor	42.6	54.4	52.4			3.75
	Heptachlor	59.8	66.2	63.7			3.86
	Heptachlor Epoxide	79.2	87.8	85.7			2.45
	Heptachlor Epoxide	73.2	51.4	55.8			2.67
	Hexachlorobenzene	64.0	78.6	75.8			3.70
	Hexachlorobenzene	63.8	72.8	75.1			3.14
	Hexazinone	87.2					9.03
	Imazalil	74.8	202	167			19.3
	Iprodione	134	91.5	85.9			6.30
	Kepone	213	69.9	131			60.9
	Kepone	187	137	155			11.9
	Lambda-Cyhalothrin	41.5	66.4	63.9			3.72
	Lambda-Cyhalothrin	46.3	121	64.5			61.1
	Loratadine	113					27.8
	Malathion	95.7	89.0	86.1			3.25
	Metalaxyl	89.4	52.3	52.5			0.368
	Methoprene	54.4	99.4	83.5			17.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Methoprene	41.1	73.7	72.6			1.51
	Methoxychlor	92.7	90.9	92.6			1.63
	Methoxychlor	76.6	85.4	78.8			6.90
	Metolachlor	93.8	60.2	60.0			0.337
	Metribuzin	89.5	132	132			0.145
	Mevinphos	73.2	107	90.8			16.3
	MGK-264	83.4	86.1	91.8			6.37
	MGK-264	83.0	72.8	77.8			6.04
	Mirex	40.5	62.3	58.9			5.47
	Mirex	45.1	66.9	64.4			3.87
	Molinate	61.5	45.6	42.9			6.14
	Myclobutanil	98.2	98.8	87.0			11.8
	Naled	83.8	91.4	89.5			2.04
	Napropamide	67.8	85.9	63.8			29.6
	Norflurazon	82.8	122	104			15.9
	Octinoxate	78.2	41.8	28.0			21.8
	Oxadiazon	77.1	50.4	45.9			9.39
	Oxybenzone	65.1	64.6	51.3			23.1
	Oxychlordane	71.5	78.8	80.1			1.60
	Oxychlordane	68.3	71.9	73.9			2.80
	Oxyfluorfen	98.5	164	143			13.4
	Parathion Ethyl	74.6	99.6	92.4			7.48
	Parathion Methyl	98.3	113	112			1.32
	PBDE-47	71.0	60.6	48.9			21.4
	PBDE-99	85.5	72.5	59.3			20.0
	PCB-1016	73.4	69.6	69.1			0.723
	PCB-1016	85.5	105	107			1.67
	PCB-1260	75.7	55.7	56.4			1.30
	PCB-1260	80.2	84.8	84.6			0.243
	Pendimethalin	74.4	91.2	86.4			5.45
	Permethrin	45.2	70.8	65.3			8.01
	Permethrin	58.3	102	57.7			55.8
	Phenothrin	29.2	57.5	58.2			1.08
	Phenothrin	39.5	85.9	60.8			34.3
	Phenytol	25.2	141	41.3			60.3
	Phorate	82.0	110	104			5.02
	Piperonyl Butoxide	108	128	126			0.895
	Piperonyl Butoxide	89.9	68.8	90.5			21.1
	Prallethrin	65.0	72.9	77.8			6.48
	Prallethrin	76.5	75.3	73.4			2.62
	Prodiamine	57.5	55.2	61.0			9.88
	Prometon	77.1	78.1	80.6			3.24
	Prometryn	109	62.4	54.7			13.2
	Pronamide	117	73.1	68.6			6.41
	Propanil	74.4	121	120			0.850
	Propargite	120	199	174			12.9
	Propiconazole	92.8	141	141			0.293
	Pyraflufen Ethyl	92.4	139	125			10.2
	Pyridaben	124	189	175			7.45
	Pyriproxyfen	121	94.0	92.1			2.01
	Simazine	83.8	118	108			8.52
	Stirophos	80.5	100	57.4			54.4
	Sulfentrazone	96.7	80.1	57.7			18.6
	Tau-Fluvalinate	52.8	79.8	85.8			7.23

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Tau-Fluvalinate	41.6	81.8	83.0		1.43
	Tebuconazole	82.8				29.1
	Terbufos	111	129	121		5.97
	Terbutylazine	81.3	115	116		1.52
	Tetramethrin	77.4	103	102		0.982
	Tetramethrin	95.1	140	150		7.19
	Thiobencarb	76.5	121	107		12.2
	Trans-Nonachlor	76.8	88.8	88.7		0.162
	Trans-Nonachlor	67.9	66.1	75.0		11.4
	Tri-o-cresyl Phosphate	76.9	68.6	55.5		21.2
	Triadimefon	78.5	115	110		4.60
	Triclosan Methyl	79.6	86.3	85.5		0.962
	Triclosan Methyl	75.8	66.9	83.2		21.8
	Trifluralin	65.9	74.6	73.3		1.88
	Trifluralin	66.4	65.0	66.9		2.89
EPA 8276	Chlordane	80.8	67.0	66.3		1.04
	Chlordane	78.3	87.2	88.2		1.11
	Toxaphene	78.4	75.7	74.5		1.51
	Toxaphene	81.0	89.5	86.3		3.64
EPA 8321B	2,4-D	96.4	86.1	96.6		11.4
	2,4,5-T	75.1	81.1	92.7		13.3
	3-Hydroxycarbofuran	130	45.0	93.8		70.3
	Acesulfame K	100	77.2	75.8		1.94
	Acetaminophen	71.7	54.7	48.6		11.9
	Acetamiprid	79.0	68.7	71.1		3.53
	Afidopyropen	37.9	34.7	38.1		9.19
	Aldicarb	64.4	33.2	53.4		46.8
	Aldicarb Sulfone	118	76.5	72.7		5.04
	Aldicarb Sulfoxide	110	38.9	37.9		2.45
	AMPA	97.9	72.9	77.4		4.72
	Bentazon	116	99.5	111		9.74
	Benzovindiflupyr	82.9	71.6	67.5		5.97
	Carbamazepine	97.1	87.7	88.1		0.477
	Carbaryl	94.6	62.9	60.6		3.75
	Carbofuran	92.8	66.3	64.2		3.25
	Clothianidin	97.3	71.5	67.8		5.31
	Dinotefuran	84.8	75.2	73.0		2.97
	Diuron	101	91.4	95.1		3.96
	Endothall	85.2	125	120		4.22
	Fenuron	104	85.0	93.0		8.93
	Fluridone	82.3	81.3	86.3		6.01
	Glufosinate	81.4	71.0	67.1		5.58
	Glyphosate	107	98.0	106		5.26
	Hydrocodone	94.0	88.5	88.1		0.505
	Ibuprofen	111	91.8	87.1		5.20
	Imazapyr	97.0	89.1	92.7		3.61
	Imidacloprid	99.4	77.6	74.4		4.27
	Linuron	89.1	96.6	99.8		3.33
	Mandestrobin	86.4	83.4	86.7		3.81
	MCPP	102	94.9	98.8		4.07
	Methiocarb	115	90.2	80.1		11.9
	Methomyl	108	79.4	71.0		11.1
	Naproxen	129	92.4	152		48.7
	Oxamyl	93.7	80.3	76.3		5.09

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Primidone	86.9	58.1	44.9		25.6
	Propoxur	101	57.9	63.2		8.77
	Pyraclostrobin	70.4	72.0	75.8		5.18
	Silvex	65.6	75.5	83.5		10.0
	Sucralose	94.4	95.3	93.2		2.23
	Thiamethoxam	89.4	93.2	82.2		12.5
	Tolfenpyrad	34.0	38.0	35.6		6.67
	Triclopyr	72.9	66.3	80.1		18.9
SM 2320 B-2011	Total Alkalinity	98.9			1.74	
	Total Alkalinity	102			1.90	
SM 2540 C-2011	TDS				3.30	
SM 4500-F- C-2011	Fluoride	99.6	99.7	98.5		0.953
	Fluoride	101	98.2	98.8		0.474
SM 5310 B-2011	Organic Carbon	96.4	96.5	96.0		0.260

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2355124, 2355125, 2355128, 2355130
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2355124, 2355125, 2355128, 2355130
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2355157
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2355157
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2355124, 2355125, 2355128, 2355130
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2355124, 2355125, 2355128, 2355130
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2355126, 2355127, 2355129, 2355131
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2355126, 2355127, 2355129, 2355131
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2355126, 2355127, 2355129, 2355131
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2355126, 2355127, 2355129, 2355131
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2355150, 2355152
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2355149, 2355151
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2355150, 2355152
EPA 8270E	PCBs in water matrices by GC/MS/MS	2355149, 2355151
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2355149, 2355151
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2355145
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2355146, 2355147
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2355124, 2355125, 2355128, 2355130
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2355157
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2355124, 2355125, 2355128, 2355130
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2355124, 2355125, 2355128, 2355130
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2355124, 2355125, 2355128, 2355130
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2355126, 2355127, 2355129, 2355131

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	09/08/2022			09/08/2022 16:00	Anna M. Plaviak	2355124
	09/08/2022			09/08/2022 16:01	Anna M. Plaviak	2355128
	09/08/2022			09/08/2022 16:02	Anna M. Plaviak	2355130
	09/08/2022			09/08/2022 16:20	Anna M. Plaviak	2355125
EPA 180.1 Rev. 2.0	09/08/2022			09/08/2022 13:55	Chandler E Cox	2355124
	09/08/2022			09/08/2022 14:00	Chandler E Cox	2355128
	09/08/2022			09/08/2022 14:01	Chandler E Cox	2355130
	09/08/2022			09/08/2022 14:05	Chandler E Cox	2355125
EPA 200.7 Rev. 4.4	09/08/2022	09/12/2022 10:30	Megan Whitefoot	09/14/2022 23:04	McKinley C Carter	2355157
	09/08/2022	09/12/2022 10:30	Megan Whitefoot	09/15/2022 21:53	McKinley C Carter	2355157
EPA 200.8 Rev. 5.4	09/08/2022	09/12/2022 10:30	Megan Whitefoot	09/13/2022 19:02	Megan Whitefoot	2355157
	09/08/2022	09/16/2022 09:25	Megan Whitefoot	09/17/2022 01:26	Emily M Philpot	2355157
EPA 300.0 Rev. 2.1	09/08/2022			09/15/2022 14:14	Anna M. Plaviak	2355124
	09/08/2022			09/16/2022 17:53	Anna M. Plaviak	2355125
	09/08/2022			09/16/2022 18:08	Anna M. Plaviak	2355128
	09/08/2022			09/16/2022 18:23	Anna M. Plaviak	2355130
EPA 350.1 Rev. 2.0	09/08/2022			09/14/2022 13:03	Ping Hua	2355126
	09/08/2022			09/14/2022 13:04	Ping Hua	2355127
	09/08/2022			09/14/2022 13:06	Ping Hua	2355129
	09/08/2022			09/14/2022 13:56	Ping Hua	2355131
EPA 351.2 Rev. 2.0	09/08/2022	09/13/2022 11:52	Alexandra J Mattheus	09/14/2022 14:17	Alexandra J Mattheus	2355129
	09/08/2022	09/13/2022 11:52	Alexandra J Mattheus	09/14/2022 14:41	Alexandra J Mattheus	2355127
	09/08/2022	09/14/2022 13:25	Samantha L Bates	09/15/2022 12:27	Samantha L Bates	2355126
	09/08/2022	09/14/2022 13:25	Samantha L Bates	09/15/2022 12:29	Samantha L Bates	2355131
EPA 353.2 Rev. 2.0	09/08/2022			09/14/2022 09:50	Judith K. Clark	2355126
	09/08/2022			09/14/2022 09:52	Judith K. Clark	2355127
	09/08/2022			09/14/2022 09:53	Judith K. Clark	2355129
	09/08/2022			09/14/2022 09:54	Judith K. Clark	2355131
EPA 365.1 Rev. 2.0	09/08/2022	09/14/2022 16:15	Simonne.V. Calhoun	09/15/2022 14:02	Simonne.V. Calhoun	2355127
	09/08/2022	09/14/2022 16:15	Simonne.V. Calhoun	09/15/2022 14:06	Simonne.V. Calhoun	2355129
	09/08/2022	09/14/2022 16:15	Simonne.V. Calhoun	09/15/2022 14:07	Simonne.V. Calhoun	2355131
	09/08/2022	09/14/2022 16:15	Simonne.V. Calhoun	09/15/2022 17:07	James L Waggerby	2355126
EPA 8270E	09/08/2022	09/13/2022 08:45	Rasheda Ghaffari	09/15/2022 21:40	Vandana T. Nagar	2355151
	09/08/2022	09/13/2022 08:45	Rasheda Ghaffari	09/20/2022 22:45	Julie Wi	2355151
	09/08/2022	09/14/2022 08:30	Rasheda Ghaffari	09/18/2022 18:39	Michael Poppell	2355150
	09/08/2022	09/14/2022 08:30	Rasheda Ghaffari	09/18/2022 19:06	Michael Poppell	2355152
	09/08/2022	09/14/2022 08:30	Rasheda Ghaffari	09/20/2022 21:07	Michael Poppell	2355150
	09/08/2022	09/14/2022 08:30	Rasheda Ghaffari	09/20/2022 21:33	Michael Poppell	2355150
	09/08/2022	09/14/2022 08:30	Rasheda Ghaffari	09/20/2022 21:59	Michael Poppell	2355152
	09/08/2022	09/20/2022 08:30	Rasheda Ghaffari	09/22/2022 00:17	Vandana T. Nagar	2355149

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	09/08/2022	09/20/2022 08:30	Rasheda Ghaffari	09/22/2022 02:11	Julie Wi	2355149
	09/08/2022	10/02/2022 09:30	Rasheda Ghaffari	10/03/2022 21:16	Lipi Saha	2355150
	09/08/2022	10/02/2022 09:30	Rasheda Ghaffari	10/03/2022 21:35	Lipi Saha	2355152
EPA 8276	09/08/2022	09/13/2022 08:45	Rasheda Ghaffari	09/16/2022 10:36	Arthur Maknenko	2355151
	09/08/2022	09/20/2022 08:30	Rasheda Ghaffari	09/23/2022 03:39	Arthur Maknenko	2355149
EPA 8321B	09/08/2022	09/09/2022 09:00	June Rhew	09/09/2022 21:29	Juyoung Kim	2355146
	09/08/2022	09/09/2022 09:00	June Rhew	09/12/2022 10:17	Juyoung Kim	2355147
	09/08/2022	09/09/2022 09:00	June Rhew	09/12/2022 10:38	Juyoung Kim	2355147
	09/08/2022	09/13/2022 08:00	Manjita Shrestha	09/13/2022 09:49	Manjita Shrestha	2355147
	09/08/2022	09/13/2022 08:00	Manjita Shrestha	09/13/2022 11:20	Manjita Shrestha	2355146
	09/08/2022	09/13/2022 08:00	Manjita Shrestha	09/13/2022 21:16	Manjita Shrestha	2355147
	09/08/2022	09/13/2022 08:00	Manjita Shrestha	09/13/2022 23:01	Manjita Shrestha	2355146
	09/08/2022	09/14/2022 08:45	June Rhew	09/14/2022 16:29	Juyoung Kim	2355145
SM 2320 B-2011	09/08/2022			09/15/2022 01:35	Dale L. Simmons	2355124
	09/08/2022			09/15/2022 01:48	Dale L. Simmons	2355125
	09/08/2022			09/17/2022 05:00	Dale L. Simmons	2355128
	09/08/2022			09/17/2022 05:13	Dale L. Simmons	2355130
SM 2340 B-2011	09/08/2022			09/15/2022 21:53	McKinley C Carter	2355157
SM 2540 C-2011	09/08/2022			09/09/2022 16:25	Yijie Li	2355124, 2355125, 2355128, 2355130
SM 2540 D-2011	09/08/2022			09/09/2022 16:25	Yijie Li	2355124, 2355125, 2355128, 2355130
SM 4500-F- C-2011	09/08/2022			09/15/2022 01:35	Dale L. Simmons	2355124
	09/08/2022			09/15/2022 01:48	Dale L. Simmons	2355125
	09/08/2022			09/17/2022 05:00	Dale L. Simmons	2355128
	09/08/2022			09/17/2022 05:13	Dale L. Simmons	2355130
SM 5310 B-2011	09/08/2022			09/13/2022 21:48	Khloe J Berg	2355126
	09/08/2022			09/13/2022 22:47	Khloe J Berg	2355131
	09/08/2022			09/14/2022 01:43	Khloe J Berg	2355127
	09/08/2022			09/14/2022 01:57	Khloe J Berg	2355129