

Chemical Analysis Report

CEN-DIST-2022-11-16-01

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

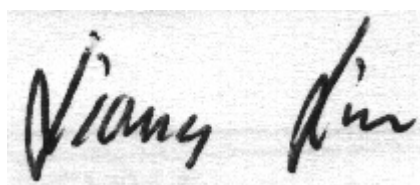
Event Description: **Lakes Ann**
Request ID: **RQ-2022-11-14-55**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 07-DEC-2022 14:51

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

Case Narrative

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

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Lake Ann @ Center

Collection Date/Time: 11/15/2022 10:33

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2370066	DEP SOP: NU-094-1	Color (true)	35		PCU	P422426	
	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P422434	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P423091	
		Sulfate	8.8		mg SO4/L	P423094	
	SM 2320 B-2011	Total Alkalinity	28		mg CaCO3/L	P422779	
	SM 2540 C-2015	TDS	76		mg/L	P422852	
	SM 2540 D-2015	TSS	6	I	mg/L	P422705	
	SM 4500-F- C-2011	Fluoride	0.029	I	mg F/L	P422783	
2370067	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P422990	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P422542	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P422721	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P422570	
	SM 5310 B-2011	Organic Carbon	7.8		mg C/L	P422788	
2370068	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P422438	
2370070	EPA 8321B	Aldicarb	0.020	U	ug/L	P422615	
		Aldicarb Sulfone	0.0020	U	ug/L	P422615	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P422615	
		Carbaryl	0.0020	U	ug/L	P422615	
		Carbofuran	0.0020	U	ug/L	P422615	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P422615	
		Methiocarb	0.0020	U	ug/L	P422615	
		Methomyl	0.0020	U	ug/L	P422615	
		Oxamyl	0.0020	U	ug/L	P422615	
		Propoxur	0.0020	U	ug/L	P422615	
		2,4-D	0.040		ug/L	P422538	
		Acesulfame K	0.10	U	ug/L	P422312	
		2,4,5-T	0.0040	U	ug/L	P422538	
		AMPA	0.10	U	ug/L	P422312	
2370071		Acetaminophen	0.0080	U	ug/L	P422538	
		Endothall	0.25	U	ug/L	P422312	
		Acetamiprid	0.0020	U	ug/L	P422538	MS
		Glufosinate	0.10	U	ug/L	P422312	
		Glyphosate	0.10	U	ug/L	P422312	MS
		Afidopyropen	0.0020	U	ug/L	P422538	
		Bentazon	0.12		ug/L	P422538	
		Sucralose	0.78		ug/L	P422312	
		Benzovindiflupyr	0.0020	U	ug/L	P422538	
		Carbamazepine	8.0E-04	U	ug/L	P422538	
		Clothianidin	0.030		ug/L	P422538	MS
		Dinotefuran	0.0047	I	ug/L	P422538	
		Diuron	0.0049	I	ug/L	P422538	
		Fenuron	0.032	U	ug/L	P422538	
		Fluridone	0.0040		ug/L	P422538	

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2370071	EPA 8321B	Imazapyr	0.038		ug/L	P422538	
		Hydrocodone	0.0020	U	ug/L	P422538	
		Ibuprofen	0.20	U	ug/L	P422538	
		Imidacloprid	0.028		ug/L	P422538	
		Linuron	0.0040	U	ug/L	P422538	
		Mandestrobin	0.0020	U	ug/L	P422538	
		MCPP	0.0040	U	ug/L	P422538	
		Naproxen	0.0080	U	ug/L	P422538	
		Primidone	0.0040	U	ug/L	P422538	
		Pyraclostrobin	0.0020	U	ug/L	P422538	
		Silvex	0.0040	U	ug/L	P422538	
		Thiamethoxam	0.0047	I	ug/L	P422538	
		Tolfenpyrad	0.0020	U	ug/L	P422538	
		Triclopyr	0.0040	U	ug/L	P422538	
2370072	EPA 8270E	Aldrin	0.66	U	ng/L	P422354	
		Alpha-BHC	0.10	U	ng/L	P422354	
		Alpha-Chlordane	0.20	U	ng/L	P422354	
		PCB-1016	2.0	U	ng/L	P422354	
		Beta-BHC	0.10	U	ng/L	P422354	
		PCB-1221	2.0	U	ng/L	P422354	
		Beta-Cyfluthrin	1.3	U	ng/L	P422354	
		PCB-1232	2.0	U	ng/L	P422354	
		Bifenthrin	0.51	U	ng/L	P422354	
		PCB-1242	2.0	U	ng/L	P422354	
		PCB-1248	2.0	U	ng/L	P422354	
		Chlorothalonil	1.3	U	ng/L	P422354	
		PCB-1254	2.0	U	ng/L	P422354	
		Cis-Nonachlor	0.20	U	ng/L	P422354	
		PCB-1260	2.0	U	ng/L	P422354	
		Cypermethrin	1.5	U	ng/L	P422354	
		Dacthal	0.15	U	ng/L	P422354	
		DDD-p,p'	0.25	U	ng/L	P422354	
		DDE-p,p'	0.20	U	ng/L	P422354	
		DDT-p,p'	0.25	U	ng/L	P422354	
		Delta-BHC	0.55	I	ng/L	P422354	MS
		Deltamethrin	1.3	U	ng/L	P422354	
		Dichlobenil	0.25	U	ng/L	P422354	
		Dicofol	1.3	U	ng/L	P422354	
		Dieldrin	0.41	U	ng/L	P422354	
		Endosulfan I	0.41	U	ng/L	P422354	
		Endosulfan II	0.41	U	ng/L	P422354	
		Endosulfan Sulfate	0.31	U	ng/L	P422354	
		Endrin	0.41	U	ng/L	P422354	
		Endrin Aldehyde	0.76	U	ng/L	P422354	
		Endrin Ketone	0.41	UJ	ng/L	P422354	CCV

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Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2370072	EPA 8270E	Esfenvalerate	0.76	U	ng/L	P422354	CCV
		Ethalfuralin	0.15	U	ng/L	P422354	
		Fenpropathrin	0.25	U	ng/L	P422354	
		Gamma-BHC	0.13	U	ng/L	P422354	
		Gamma-Chlordane	0.20	U	ng/L	P422354	
		Heptachlor	0.20	U	ng/L	P422354	
		Heptachlor Epoxide	0.25	U	ng/L	P422354	
		Hexachlorobenzene**	1.0	U	ng/L	P422354	
		Kepone	5.1	UJ	ng/L	P422354	
		Lambda-Cyhalothrin	0.76	U	ng/L	P422354	
		Methoprene	0.76	U	ng/L	P422354	
		Methoxychlor	0.31	U	ng/L	P422354	
		MGK-264	0.20	U	ng/L	P422354	
		Mirex	0.36	U	ng/L	P422354	
		Oxychlordane	0.31	U	ng/L	P422354	
		Permethrin	1.6	U	ng/L	P422354	
		Phenothrin	0.92	U	ng/L	P422354	
		Piperonyl Butoxide	0.18	I	ng/L	P422354	
		Prallethrin	2.0	U	ng/L	P422354	
		Tau-Fluvalinate	0.25	U	ng/L	P422354	
		Tetramethrin	0.76	U	ng/L	P422354	
		Trans-Nonachlor	0.20	U	ng/L	P422354	
		Triclosan Methyl	0.15	U	ng/L	P422354	
		Trifluralin	0.20	U	ng/L	P422354	
	EPA 8276	Chlordane	2.0	U	ng/L	P422354	
		Toxaphene	15	U	ng/L	P422354	
2370073	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P422534	
		Acetochlor	0.24	U	ng/L	P422534	
		Octinoxate**	19	U	ng/L	P422534	
		Alachlor	0.24	U	ng/L	P422534	
		Avobenzone**	95	U	ng/L	P422534	
		Ametryn	0.57	U	ng/L	P422534	
		Atrazine	280		ng/L	P422534	
		PBDE-47**	3.8	U	ng/L	P422534	
		Atrazine Desethyl	12		ng/L	P422534	
		PBDE-99**	4.7	U	ng/L	P422534	
		Azinphos Methyl	1.9	U	ng/L	P422534	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P422534	
		Azoxystrobin	2.1		ng/L	P422534	
		Bromacil	0.47	U	ng/L	P422534	
		2-Ethylhexyl	11	U	ng/L	P422534	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P422534	
		Dechlorane Plus**	28	U	ng/L	P422534	
		Caffeine**	23	I	ng/L	P422534	

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2370073	EPA 8270E	Carbophenothion	0.19	U	ng/L	P422534	
		Carfentrazone Ethyl	0.095	U	ng/L	P422534	
		Chlorfenapyr	0.17	U	ng/L	P422534	
		Chlorpyrifos Ethyl	0.24	UJ	ng/L	P422534	MS
		Chlorpyrifos Methyl	0.047	U	ng/L	P422534	
		Coumaphos	0.47	U	ng/L	P422534	
		Cyanazine	3.1	U	ng/L	P422534	
		Cyprodinil	0.095	U	ng/L	P422534	
		Demeton	1.4	U	ng/L	P422534	
		Diazinon	0.12	U	ng/L	P422534	
		Difenoconazole	0.57	U	ng/L	P422534	
		Dimethenamid	0.095	U	ng/L	P422534	
		Dimethomorph	0.17	U	ng/L	P422534	
		Disulfoton	0.47	U	ng/L	P422534	
		Dithiopyr	0.59	U	ng/L	P422534	
		EPTC	1.2	U	ng/L	P422534	
		Ethion	0.14	U	ng/L	P422534	
		Ethoprop	0.095	U	ng/L	P422534	
		Etridiazole	0.14	U	ng/L	P422534	
		Fenamiphos	0.47	U	ng/L	P422534	
		Fenbuconazole	0.12	U	ng/L	P422534	
		Fipronil	1.2		ng/L	P422534	
		Fipronil Desulfinyl**	2.1		ng/L	P422534	
		Fipronil Sulfide	1.3	J	ng/L	P422534	MS
		Fipronil Sulfone	2.2		ng/L	P422534	
		Fluazifop-P-butyl	0.095	U	ng/L	P422534	
		Fludioxonil	0.12	U	ng/L	P422534	
		Flumioxazin	4.3	U	ng/L	P422534	
		Flutolanil	0.095	U	ng/L	P422534	
		Fluxapyroxad	0.095	U	ng/L	P422534	
		Fonofos	0.19	UJ	ng/L	P422534	MS
		Hexazinone	0.47	U	ng/L	P422534	
		Imazalil	0.71	U	ng/L	P422534	
		Iprodione	0.57	UJ	ng/L	P422534	CCV
		Loratadine**	0.33	U	ng/L	P422534	
		Malathion	0.33	U	ng/L	P422534	
		Metalaxyl	1.0	I	ng/L	P422534	
		Metolachlor	0.33	U	ng/L	P422534	
		Metribuzin	1.4	U	ng/L	P422534	
		Mevinphos	1.0	U	ng/L	P422534	
		Molinate	0.28	U	ng/L	P422534	
		Myclobutanil	0.76	I	ng/L	P422534	
		Naled	1.4	U	ng/L	P422534	
		Napropamide	0.38	U	ng/L	P422534	
		Norflurazon	0.47	U	ng/L	P422534	

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2370073	EPA 8270E	Oxadiazon	4.2		ng/L	P422534	
		Oxyfluorfen	0.14	U	ng/L	P422534	
		Parathion Ethyl	0.24	UJ	ng/L	P422534	LCS
		Parathion Methyl	0.52	U	ng/L	P422534	
		Pendimethalin	0.95	U	ng/L	P422534	
		Phenytain**	3.3	U	ng/L	P422534	
		Phorate	0.50	U	ng/L	P422534	
		Prodiamine	0.36	I	ng/L	P422534	
		Prometon	0.85	U	ng/L	P422534	
		Prometryn	0.19	U	ng/L	P422534	
		Pronamide	0.14	U	ng/L	P422534	
		Propanil	0.12	U	ng/L	P422534	
		Propargite	1.4	U	ng/L	P422534	
		Propiconazole	2.9		ng/L	P422534	
		Pyraflufen Ethyl	0.24	U	ng/L	P422534	
		Pyridaben	1.5	IJ	ng/L	P422534	MS
		Pyriproxyfen	0.12	U	ng/L	P422534	
		Simazine	2.4		ng/L	P422534	
		Stirophos	0.12	U	ng/L	P422534	
		Sulfentrazone	7.2		ng/L	P422534	
		Tebuconazole	0.78	I	ng/L	P422534	
		Terbufos	0.095	U	ng/L	P422534	
		Terbutylazine	0.40	U	ng/L	P422534	
		Thiobencarb	0.57	U	ng/L	P422534	
		Triadimefon	0.24	U	ng/L	P422534	

Ref. Method and Comment:

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

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

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

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

EPA 8270E: MS accuracy for oxadiazon, fipronil sulfone, and atrazine not assessed due to high content of these parameters in the sample spiked.

Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P422426

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P422434

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423091

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423094

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422990

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422542

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422721

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422570

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P422438

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422354

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422354

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422354

Component	Result	Code	Units
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: P422534

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422534

Component	Result	Code	Units
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422534

Component	Result	Code	Units
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422534

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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P422354

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

Reference Method: EPA 8321B

Batch ID: P422312

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P422538

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	0.20	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P422615

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: P422779

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P422852

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P422705

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P422783

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P422788

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: P422426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P422434

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423091

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423094

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422721

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422570

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P422438

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P422354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	62.7		P	10 - 92.0
Alpha-BHC	86.0		P	75 - 107
Alpha-Chlordane	96.4		P	50 - 108
Beta-BHC	95.2		P	36 - 138
Beta-Cyfluthrin	81.0		P	20 - 161
Bifenthrin	65.3		P	10 - 119
Chlorothalonil	92.6		P	26 - 186
Cis-Nonachlor	77.2		P	42 - 119
Cypermethrin	85.1		P	22 - 150
Dacthal	87.6		P	72 - 119
DDD-p,p'	89.5		P	45 - 107
DDE-p,p'	85.3		P	48 - 106
DDT-p,p'	76.6		P	48 - 110
Delta-BHC	91.2		P	54 - 140
Deltamethrin	40.5		P	22 - 189
Dichlobenil	101		P	36 - 117
Dicofol	87.0		P	46 - 155
Dieldrin	86.8		P	54 - 110
Endosulfan I	82.9		P	59 - 105
Endosulfan II	81.9		P	51 - 118
Endosulfan Sulfate	90.4		P	57 - 121
Endrin	80.0		P	10 - 120
Endrin Aldehyde	79.6		P	34 - 118
Endrin Ketone	127		P	69 - 177
Esfenvalerate	76.5		P	23 - 168
Ethalfuralin	75.4		P	49 - 99.0
Fenpropathrin	86.1		P	34 - 117
Gamma-BHC	78.4		P	72 - 117
Gamma-Chlordane	90.9		P	43 - 106
Heptachlor	67.7		P	41 - 98.0
Heptachlor Epoxide	80.7		P	57 - 106
Hexachlorobenzene	76.5		P	36 - 99.0
Kepone	64.1		P	16 - 215
Lambda-Cyhalothrin	73.0		P	21 - 177
Methoprene	79.6		P	10 - 119
Methoxychlor	75.7		P	60 - 112
MGK-264	79.4		P	26 - 122
Mirex	66.1		P	10 - 169
Oxychlordane	77.3		P	43 - 105
PCB-1016	73.8		P	48 - 112
PCB-1260	82.6		P	44 - 118
Permethrin	81.0		P	24 - 148
Phenothrin	64.1		P	10 - 106
Piperonyl Butoxide	96.1		P	10 - 139
Prallethrin	82.3		P	17 - 109
Tau-Fluvalinate	73.3		P	13 - 131
Tetramethrin	93.6		P	10 - 132
Trans-Nonachlor	81.8		P	44 - 106
Triclosan Methyl	86.7		P	59 - 109
Trifluralin	77.2		P	44 - 101

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P422534

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	73.1		P	42 - 162
Acetochlor	121		P	69 - 123
Alachlor	97.9		P	65 - 118
Ametryn	136		P	58 - 141
Atrazine	113		P	73 - 118
Atrazine Desethyl	71.2		P	32 - 125
Avobenzone	104		P	40 - 203
Azinphos Methyl	132		P	36 - 197
Azoxystrobin	125		P	58 - 226
Bromacil	117		P	48 - 120
Butylate	57.1		P	27 - 85.0
Caffeine	91.6		P	40 - 137
Carbophenothion	124		P	54 - 132
Carfentrazone Ethyl	92.6		P	60 - 142
Chlorfenapyr	96.7		P	53 - 117
Chlorpyrifos Ethyl	64.8		P	59 - 116
Chlorpyrifos Methyl	115		P	66 - 119
Coumaphos	203		P	11 - 234
Cyanazine	126		P	61 - 248
Cyprodinil	141		P	50 - 147
Dechlorane Plus	95.7		P	47 - 182
Demeton	95.7		P	30 - 138
Diazinon	119		P	67 - 126
Difenoconazole	185		P	38 - 205
Dimethenamid	95.0		P	57 - 111
Dimethomorph	145		P	16 - 212
Disulfoton	106		P	46 - 126
Dithiopyr	93.1		P	62 - 115
EPTC	51.4		P	28 - 80.0
Ethion	53.5		P	24 - 122
Ethoprop	97.8		P	62 - 113
Etridiazole	67.0		P	28 - 92.0
Fenamiphos	83.0		P	57 - 128
Fenbuconazole	94.4		P	52 - 155
Fipronil	97.7		P	63 - 130
Fipronil Desulfinyl	101		P	61 - 130
Fipronil Sulfide	104		P	56 - 117
Fipronil Sulfone	70.5		P	52 - 118
Fluazifop-P-butyl	107		P	61 - 128
Fludioxonil	117		P	59 - 129
Flumioxazin	152		P	30 - 250
Flutolanil	77.2		P	53 - 127
Fluxapyroxad	97.4		P	42 - 132
Fonofos	108		P	61 - 110
Hexazinone	110		P	46 - 139
Imazalil	108		P	40 - 139
Iprodione	118		P	40 - 146
Loratadine	198		P	10 - 224
Malathion	119		P	61 - 135
Metalaxyl	103		P	58 - 121
Metolachlor	106		P	64 - 118
Metribuzin	107		P	45 - 245

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P422534

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	93.7		P	49 - 118
Molinate	78.7		P	42 - 92.0
Myclobutanil	126		P	55 - 127
Naled	79.7		P	10 - 114
Napropamide	98.9		P	39 - 121
Norflurazon	128		P	55 - 129
Octinoxate	66.8		P	26 - 166
Oxadiazon	108		P	54 - 115
Oxybenzone	69.5		P	49 - 135
Oxyfluorfen	130		P	64 - 139
Parathion Ethyl	118		F	70 - 111
Parathion Methyl	126		P	76 - 136
PBDE-47	72.3		P	41 - 148
PBDE-99	74.7		P	38 - 147
Pendimethalin	104		P	52 - 118
Phenytoin	57.9		P	10 - 162
Phorate	85.7		P	40 - 122
Prodiamine	100		P	26 - 141
Prometon	94.9		P	54 - 122
Prometryn	78.1		P	61 - 128
Pronamide	107		P	72 - 121
Propanil	105		P	45 - 144
Propargite	191		P	10 - 199
Propiconazole	88.3		P	56 - 127
Pyraflufen Ethyl	81.7		P	56 - 140
Pyridaben	209		P	26 - 211
Pyriproxyfen	167		P	33 - 194
Simazine	103		P	67 - 121
Stirophos	108		P	20 - 142
Sulfentrazone	86.1		P	21 - 144
Tebuconazole	87.3		P	10 - 122
Terbufos	126		P	60 - 129
Terbuthylazine	110		P	69 - 113
Thiobencarb	55.9		P	51 - 120
Tri-o-cresyl Phosphate	69.9		P	49 - 150
Triadimefon	108		P	56 - 114

Reference Method: EPA 8276

Batch ID: P422354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	74.3		P	61 - 116
Toxaphene	81.0		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P422312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	124		P	40 - 150
AMPA	117		P	40 - 150
Endothall	97.3		P	40 - 150
Glufosinate	113		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P422312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	114		P	40 - 150
Sucralose	101		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P422538

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	110		P	40 - 150
2,4,5-T	81.0		P	40 - 150
Acetaminophen	84.5		P	30 - 150
Acetamiprid	81.1		P	40 - 150
Afidopyropen	58.9		P	30 - 150
Bentazon	78.2		P	30 - 150
Benzovindiflupyr	77.2		P	40 - 150
Carbamazepine	78.0		P	40 - 150
Clothianidin	88.4		P	40 - 150
Dinotefuran	87.5		P	40 - 150
Diuron	72.0		P	40 - 150
Fenuron	101		P	40 - 150
Fluridone	88.2		P	40 - 150
Hydrocodone	92.3		P	40 - 150
Ibuprofen	81.4		P	40 - 150
Imazapyr	80.6		P	40 - 150
Imidacloprid	96.6		P	40 - 150
Linuron	69.4		P	40 - 150
Mandestrobin	85.6		P	40 - 150
MCPP	99.7		P	40 - 150
Naproxen	78.4		P	40 - 150
Primidone	92.2		P	40 - 150
Pyraclostrobin	72.1		P	40 - 150
Silvex	84.0		P	40 - 150
Thiamethoxam	92.8		P	40 - 150
Tolfenpyrad	37.7		P	30 - 150
Triclopyr	86.1		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P422615

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	85.3		P	40 - 150
Aldicarb	70.9		P	30 - 150
Aldicarb Sulfone	94.2		P	40 - 150
Aldicarb Sulfoxide	97.7		P	40 - 150
Carbaryl	65.4		P	40 - 150
Carbofuran	70.0		P	40 - 150
Methiocarb	66.6		P	40 - 150
Methomyl	91.9		P	40 - 150
Oxamyl	88.0		P	40 - 150
Propoxur	79.2		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P422779

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

Reference Method: SM 2540 C-2015
Batch ID: P422852

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	99.3		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P422705

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	91.5		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P422783

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P422788

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369751	Chloride	99.5		P	90 - 110
2369984	Chloride	99.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369751	Sulfate	96.1		P	90 - 110
2369984	Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2370067	Ammonia-N	97.4	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369554	Kjeldahl Nitrogen	92.2	92.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422721

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2370363	NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422570

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369919	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P422438

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369814	O-Phosphate-P	95.6	97.7	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P422354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369386	Aldrin	53.6	56.8	P/P	20 - 82.0
2369386	Alpha-BHC	71.8	75.4	P/P	71 - 109
2369386	Alpha-Chlordane	69.2	62.3	P/P	42 - 106
2369386	Beta-BHC	82.5	79.7	P/P	69 - 180
2369386	Beta-Cyfluthrin	57.5	63.9	P/P	18 - 175
2369386	Bifenthrin	46.4	54.5	P/P	21 - 128
2369386	Chlorothalonil	74.8	85.8	P/P	10 - 300
2369386	Cis-Nonachlor	55.6	59.7	P/P	34 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P422354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369386	Cypermethrin	56.6	66.9	P/P	22 - 158
2369386	Dacthal	70.4	76.2	P/P	54 - 116
2369386	DDD-p,p'	67.7	70.8	P/P	34 - 107
2369386	DDE-p,p'	66.3	71.0	P/P	33 - 110
2369386	DDT-p,p'	57.7	63.8	P/P	50 - 122
2369386	Delta-BHC	75.0	79.8	F/P	77 - 193
2369386	Deltamethrin	46.4	28.1	P/P	10 - 195
2369386	Dichlobenil	91.4	85.0	P/P	25 - 113
2369386	Dicofol	66.3	69.9	P/P	38 - 247
2369386	Dieldrin	72.4	75.6	P/P	45 - 118
2369386	Endosulfan I	68.5	66.1	P/P	51 - 106
2369386	Endosulfan II	67.1	70.9	P/P	37 - 122
2369386	Endosulfan Sulfate	73.9	74.6	P/P	43 - 132
2369386	Endrin	69.0	70.2	P/P	29 - 101
2369386	Endrin Aldehyde	63.9	71.8	P/P	19 - 110
2369386	Endrin Ketone	102	111	P/P	60 - 140
2369386	Esfenvalerate	51.6	64.7	P/P	26 - 199
2369386	Ethalfuralin	59.1	62.4	P/P	45 - 99.0
2369386	Fenpropathrin	62.4	64.6	P/P	35 - 120
2369386	Gamma-BHC	68.6	80.8	P/P	63 - 128
2369386	Gamma-Chlordane	71.2	61.9	P/P	40 - 104
2369386	Heptachlor	56.9	62.6	P/P	36 - 97.0
2369386	Heptachlor Epoxide	71.0	73.6	P/P	49 - 184
2369386	Hexachlorobenzene	59.5	60.2	P/P	39 - 96.0
2369386	Kepone	55.3	56.8	P/P	10 - 217
2369386	Lambda-Cyhalothrin	51.5	62.9	P/P	21 - 193
2369386	Methoprene	56.2	63.0	P/P	20 - 106
2369386	Methoxychlor	60.2	64.5	P/P	53 - 118
2369386	MGK-264	67.2	74.5	P/P	40 - 118
2369386	Mirex	50.2	57.1	P/P	26 - 92.0
2369386	Oxychlordane	65.7	72.7	P/P	44 - 99.0
2369386	Permethrin	58.7	67.7	P/P	33 - 182
2369386	Phenothrin	48.6	58.3	P/P	10 - 129
2369386	Piperonyl Butoxide	71.4	78.8	P/P	10 - 211
2369386	Prallethrin	65.9	69.5	P/P	24 - 113
2369386	Tau-Fluvalinate	49.6	60.6	P/P	14 - 149
2369386	Tetramethrin	69.0	80.4	P/P	17 - 151
2369386	Trans-Nonachlor	63.6	64.4	P/P	42 - 102
2369386	Triclosan Methyl	68.6	63.6	P/P	48 - 108
2369386	Trifluralin	59.1	63.4	P/P	47 - 96.0
2369877	PCB-1016	72.9	74.0	P/P	46 - 111
2369877	PCB-1260	69.6	72.7	P/P	45 - 114

Reference Method: EPA 8270E
 Batch ID: P422534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2370073	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	79.9	91.0	P/P	26 - 165
2370073	Acetochlor	88.6	95.2	P/P	67 - 124
2370073	Alachlor	76.9	86.3	P/P	60 - 120
2370073	Ametryn	135	149	P/P	54 - 216
2370073	Atrazine Desethyl	22.2	54.9	P/P	15 - 122

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P422534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2370073	Avobenzone	107	115	P/P	37 - 178
2370073	Azinphos Methyl	97.0	96.1	P/P	40 - 292
2370073	Azoxystrobin	104	106	P/P	35 - 220
2370073	Bromacil	116	125	P/P	45 - 127
2370073	Butylate	77.9	72.9	P/P	20 - 83.0
2370073	Caffeine	80.4	91.2	P/P	10 - 194
2370073	Carbophenothion	110	102	P/P	57 - 127
2370073	Carfentrazone Ethyl	70.8	64.0	P/P	51 - 141
2370073	Chlorfenapyr	77.7	79.8	P/P	46 - 111
2370073	Chlorpyrifos Ethyl	51.4	53.5	F/P	52 - 120
2370073	Chlorpyrifos Methyl	87.1	89.7	P/P	63 - 119
2370073	Coumaphos	160	168	P/P	10 - 228
2370073	Cyanazine	92.6	116	P/P	59 - 241
2370073	Cyprodinil	113	117	P/P	47 - 146
2370073	Dechlorane Plus	77.5	86.6	P/P	50 - 150
2370073	Demeton	109	107	P/P	40 - 136
2370073	Diazinon	98.9	93.3	P/P	69 - 132
2370073	Difenoconazole	152	154	P/P	57 - 258
2370073	Dimethenamid	73.7	75.7	P/P	54 - 110
2370073	Dimethomorph	111	124	P/P	28 - 210
2370073	Disulfoton	90.1	87.4	P/P	43 - 133
2370073	Dithiopyr	77.5	86.3	P/P	39 - 116
2370073	EPTC	67.0	66.9	P/P	20 - 78.0
2370073	Ethion	44.2	51.2	P/P	17 - 119
2370073	Ethoprop	104	104	P/P	66 - 120
2370073	Etridiazole	71.8	63.4	P/P	28 - 96.0
2370073	Fenamiphos	59.4	63.0	P/P	41 - 126
2370073	Fenbuconazole	69.8	75.9	P/P	42 - 169
2370073	Fipronil	77.6	84.7	P/P	61 - 132
2370073	Fipronil Desulfinyl	60.9	83.2	P/P	56 - 132
2370073	Fipronil Sulfide	104	126	P/F	48 - 119
2370073	Fluazifop-P-butyl	124	128	P/P	53 - 131
2370073	Fludioxonil	92.4	95.4	P/P	56 - 127
2370073	Flumioxazin	158	158	P/P	19 - 300
2370073	Flutolanil	54.1	62.2	P/P	41 - 127
2370073	Fluxapyroxad	84.5	89.3	P/P	42 - 172
2370073	Fonofos	131	122	F/F	59 - 113
2370073	Hexazinone	99.1	103	P/P	66 - 122
2370073	Imazalil	118	104	P/P	21 - 283
2370073	Iprodione	106	121	P/P	43 - 150
2370073	Loratadine	164	160	P/P	23 - 201
2370073	Malathion	95.0	101	P/P	58 - 136
2370073	Metalaxyl	106	115	P/P	55 - 120
2370073	Metolachlor	78.6	83.0	P/P	57 - 121
2370073	Metribuzin	91.3	98.7	P/P	58 - 294
2370073	Mevinphos	109	113	P/P	50 - 126
2370073	Molinate	90.7	92.4	P/P	42 - 93.0
2370073	Myclobutanil	99.7	110	P/P	55 - 125
2370073	Naled	72.4	91.7	P/P	18 - 200
2370073	Napropamide	87.2	92.8	P/P	39 - 110
2370073	Norflurazon	102	109	P/P	48 - 128
2370073	Octinoxate	75.2	89.3	P/P	21 - 159

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P422534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2370073	Oxybenzone	74.4	90.3	P/P	41 - 142
2370073	Oxyfluorfen	106	105	P/P	64 - 153
2370073	Parathion Ethyl	104	108	P/P	69 - 114
2370073	Parathion Methyl	119	123	P/P	79 - 139
2370073	PBDE-47	74.0	86.2	P/P	27 - 144
2370073	PBDE-99	75.6	85.1	P/P	18 - 150
2370073	Pendimethalin	90.8	90.9	P/P	50 - 139
2370073	Phenytoin	86.8	99.7	P/P	10 - 146
2370073	Phorate	73.2	73.5	P/P	54 - 161
2370073	Prodiamine	113	112	P/P	30 - 161
2370073	Prometon	67.8	74.1	P/P	45 - 134
2370073	Prometryn	62.4	73.0	P/P	45 - 137
2370073	Pronamide	79.2	78.1	P/P	65 - 133
2370073	Propanil	88.1	90.7	P/P	49 - 142
2370073	Propargite	161	171	P/P	10 - 203
2370073	Propiconazole	42.1	58.1	P/P	38 - 146
2370073	Pyraflufen Ethyl	60.5	66.7	P/P	34 - 153
2370073	Pyridaben	205	172	F/P	12 - 192
2370073	Pyriproxyfen	132	118	P/P	33 - 180
2370073	Simazine	107	110	P/P	51 - 157
2370073	Stiropfos	80.4	97.2	P/P	10 - 128
2370073	Sulfentrazone	177	164	P/P	53 - 186
2370073	Tebuconazole	64.0	75.1	P/P	10 - 133
2370073	Terbufos	113	104	P/P	65 - 139
2370073	Terbutylazine	117	114	P/P	66 - 117
2370073	Thiobencarb	57.6	67.7	P/P	51 - 119
2370073	Tri-o-cresyl Phosphate	76.5	86.7	P/P	31 - 144
2370073	Triadimefon	115	119	P/P	48 - 119

Reference Method: EPA 8276

Batch ID: P422354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369877	Chlordane	81.5	84.9	P/P	53 - 126
2369877	Toxaphene	112	92.9	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P422312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369532	Acesulfame K	135	139	P/P	40 - 150
2369532	AMPA	100	103	P/P	40 - 150
2369532	Endothall	99.2	101	P/P	40 - 150
2369532	Glufosinate	128	116	P/P	40 - 150
2369532	Glyphosate	156	143	F/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P422538

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369273	2,4-D	105	100	P/P	40 - 150
2369273	2,4,5-T	73.2	62.7	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P422538

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369273	Acetaminophen	86.0	87.0	P/P	30 - 150
2369273	Acetamiprid	25.2	25.4	F/F	40 - 150
2369273	Afidopyropen	71.7	71.4	P/P	30 - 150
2369273	Benzovindiflupyr	73.4	77.2	P/P	40 - 150
2369273	Clothianidin	18.3	10.5	F/F	40 - 150
2369273	Diuron	46.2	44.5	P/P	40 - 150
2369273	Fenuron	82.6	77.6	P/P	40 - 150
2369273	Fluridone	75.4	74.9	P/P	40 - 150
2369273	Hydrocodone	106	106	P/P	40 - 150
2369273	Ibuprofen	74.2	78.1	P/P	40 - 150
2369273	Imazapyr	126	124	P/P	40 - 150
2369273	Linuron	76.1	76.9	P/P	40 - 150
2369273	Mandestrobin	81.0	80.7	P/P	40 - 150
2369273	MCPP	79.6	73.3	P/P	40 - 150
2369273	Naproxen	78.0	84.4	P/P	40 - 150
2369273	Pyraclostrobin	80.1	81.0	P/P	40 - 150
2369273	Silvex	94.9	84.1	P/P	40 - 150
2369273	Thiamethoxam	122	122	P/P	40 - 150
2369273	Tolfenpyrad	54.3	56.4	P/P	30 - 150
2369273	Triclopyr	67.5	68.2	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P422615

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2370070	3-Hydroxycarbofuran	86.9	93.7	P/P	40 - 150
2370070	Aldicarb	47.6	46.4	P/P	30 - 150
2370070	Aldicarb Sulfone	113	101	P/P	40 - 150
2370070	Aldicarb Sulfoxide	60.8	51.1	P/P	40 - 150
2370070	Carbaryl	45.9	44.0	P/P	40 - 150
2370070	Carbofuran	55.4	48.8	P/P	40 - 150
2370070	Methiocarb	57.9	51.7	P/P	40 - 150
2370070	Methomyl	85.8	81.1	P/P	40 - 150
2370070	Oxamyl	85.5	85.1	P/P	40 - 150
2370070	Propoxur	55.4	50.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P422783

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2370209	Fluoride	100	99.3	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P422788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2370067	Organic Carbon	98.9	98.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P422426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369918	Color (true)	2.21	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P422434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369918	Turbidity	0.948	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369751	Chloride	3.57	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369751	Sulfate	3.90	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2370067	Ammonia-N	2.64	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369554	Kjeldahl Nitrogen	0.0455	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2370363	NO2NO3-N	0.250	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422570

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369919	Total-P	0.280	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P422438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369814	O-Phosphate-P	1.81	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P422354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369386	Aldrin	5.79	Spike	P	0 - 41
2369386	Alpha-BHC	4.78	Spike	P	0 - 25
2369386	Alpha-Chlordane	10.5	Spike	P	0 - 33
2369386	Beta-BHC	3.48	Spike	P	0 - 36
2369386	Beta-Cyfluthrin	10.6	Spike	P	0 - 42
2369386	Bifenthrin	16.1	Spike	P	0 - 53
2369386	Chlorothalonil	13.7	Spike	P	0 - 71
2369386	Cis-Nonachlor	7.12	Spike	P	0 - 29
2369386	Cypermethrin	16.6	Spike	P	0 - 40
2369386	Dacthal	7.89	Spike	P	0 - 26
2369386	DDD-p,p'	4.52	Spike	P	0 - 39
2369386	DDE-p,p'	6.85	Spike	P	0 - 33
2369386	DDT-p,p'	9.96	Spike	P	0 - 40
2369386	Delta-BHC	6.26	Spike	P	0 - 37
2369386	Deltamethrin	49.2	Spike	P	0 - 100
2369386	Dichlobenil	7.29	Spike	P	0 - 40
2369386	Dicofol	5.22	Spike	P	0 - 31
2369386	Dieldrin	4.32	Spike	P	0 - 27
2369386	Endosulfan I	3.57	Spike	P	0 - 23
2369386	Endosulfan II	5.61	Spike	P	0 - 28
2369386	Endosulfan Sulfate	0.938	Spike	P	0 - 38
2369386	Endrin	1.85	Spike	P	0 - 63
2369386	Endrin Aldehyde	11.6	Spike	P	0 - 60
2369386	Endrin Ketone	8.78	Spike	P	0 - 37
2369386	Esfenvalerate	22.5	Spike	P	0 - 52
2369386	Ethalfuralin	5.42	Spike	P	0 - 23
2369386	Fenpropathrin	3.48	Spike	P	0 - 32
2369386	Gamma-BHC	16.3	Spike	P	0 - 17
2369386	Gamma-Chlordane	13.9	Spike	P	0 - 40
2369386	Heptachlor	9.43	Spike	P	0 - 29
2369386	Heptachlor Epoxide	3.57	Spike	P	0 - 25
2369386	Hexachlorobenzene	1.21	Spike	P	0 - 36
2369386	Kepone	2.65	Spike	P	0 - 93
2369386	Lambda-Cyhalothrin	20.0	Spike	P	0 - 55
2369386	Methoprene	11.5	Spike	P	0 - 53
2369386	Methoxychlor	6.82	Spike	P	0 - 29
2369386	MGK-264	10.2	Spike	P	0 - 35
2369386	Mirex	13.0	Spike	P	0 - 46
2369386	Oxychlordane	10.1	Spike	P	0 - 29
2369386	Permethrin	14.3	Spike	P	0 - 44
2369386	Phenothrin	18.2	Spike	P	0 - 56
2369386	Piperonyl Butoxide	9.88	Spike	P	0 - 100
2369386	Prallethrin	5.28	Spike	P	0 - 42
2369386	Tau-Fluvalinate	19.9	Spike	P	0 - 54

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P422354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369386	Tetramethrin	15.3	Spike	P	0 - 51
2369386	Trans-Nonachlor	1.35	Spike	P	0 - 37
2369386	Triclosan Methyl	7.59	Spike	P	0 - 31
2369386	Trifluralin	6.89	Spike	P	0 - 30
2369877	PCB-1016	1.48	Spike	P	0 - 32
2369877	PCB-1260	4.29	Spike	P	0 - 31

Reference Method: EPA 8270E

Batch ID: P422534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2370073	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12.9	Spike	P	0 - 37
2370073	Acetochlor	7.14	Spike	P	0 - 28
2370073	Alachlor	11.6	Spike	P	0 - 30
2370073	Ametryn	9.22	Spike	P	0 - 32
2370073	Atrazine	5.82	Spike	P	0 - 41
2370073	Atrazine Desethyl	28.5	Spike	P	0 - 36
2370073	Avobenzone	7.30	Spike	P	0 - 36
2370073	Azinphos Methyl	0.946	Spike	P	0 - 75
2370073	Azoxystrobin	0.843	Spike	P	0 - 39
2370073	Bromacil	7.92	Spike	P	0 - 33
2370073	Butylate	6.60	Spike	P	0 - 44
2370073	Caffeine	11.9	Spike	P	0 - 74
2370073	Carbophenothion	7.20	Spike	P	0 - 25
2370073	Carfentrazone Ethyl	10.2	Spike	P	0 - 27
2370073	Chlorfenapyr	2.70	Spike	P	0 - 24
2370073	Chlorpyrifos Ethyl	4.12	Spike	P	0 - 26
2370073	Chlorpyrifos Methyl	2.95	Spike	P	0 - 26
2370073	Coumaphos	4.74	Spike	P	0 - 28
2370073	Cyanazine	22.2	Spike	P	0 - 48
2370073	Cyprodinil	3.53	Spike	P	0 - 29
2370073	Dechlorane Plus	11.1	Spike	P	0 - 30
2370073	Demeton	2.17	Spike	P	0 - 33
2370073	Diazinon	5.88	Spike	P	0 - 29
2370073	Difenoconazole	1.53	Spike	P	0 - 34
2370073	Dimethenamid	2.70	Spike	P	0 - 39
2370073	Dimethomorph	10.9	Spike	P	0 - 51
2370073	Disulfoton	3.02	Spike	P	0 - 30
2370073	Dithiopyr	10.8	Spike	P	0 - 26
2370073	EPTC	0.221	Spike	P	0 - 43
2370073	Ethion	14.6	Spike	P	0 - 79
2370073	Ethoprop	0.00481	Spike	P	0 - 29
2370073	Etridiazole	12.4	Spike	P	0 - 33
2370073	Fenamiphos	5.88	Spike	P	0 - 40
2370073	Fenbuconazole	8.40	Spike	P	0 - 74
2370073	Fipronil	6.28	Spike	P	0 - 29
2370073	Fipronil Desulfinyl	17.4	Spike	P	0 - 32
2370073	Fipronil Sulfide	12.3	Spike	P	0 - 30
2370073	Fipronil Sulfone	19.0	Spike	P	0 - 33
2370073	Fluazifop-P-butyl	3.45	Spike	P	0 - 38

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P422534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2370073	Fludioxonil	3.22	Spike	P	0 - 29
2370073	Flumioxazin	0.329	Spike	P	0 - 51
2370073	Flutolanil	13.8	Spike	P	0 - 25
2370073	Fluxapyroxad	5.47	Spike	P	0 - 45
2370073	Fonofos	6.98	Spike	P	0 - 27
2370073	Hexazinone	3.98	Spike	P	0 - 30
2370073	Imazalil	12.2	Spike	P	0 - 100
2370073	Iprodione	13.1	Spike	P	0 - 33
2370073	Loratadine	2.38	Spike	P	0 - 56
2370073	Malathion	6.41	Spike	P	0 - 37
2370073	Metalaxyl	7.70	Spike	P	0 - 40
2370073	Metolachlor	5.45	Spike	P	0 - 29
2370073	Metribuzin	7.83	Spike	P	0 - 45
2370073	Mevinphos	3.99	Spike	P	0 - 29
2370073	Molinate	1.85	Spike	P	0 - 33
2370073	Myclobutanil	7.95	Spike	P	0 - 26
2370073	Naled	23.6	Spike	P	0 - 37
2370073	Napropamide	6.22	Spike	P	0 - 44
2370073	Norflurazon	6.19	Spike	P	0 - 30
2370073	Octinoxate	17.1	Spike	P	0 - 45
2370073	Oxadiazon	0.786	Spike	P	0 - 28
2370073	Oxybenzone	19.2	Spike	P	0 - 46
2370073	Oxyfluorfen	0.876	Spike	P	0 - 28
2370073	Parathion Ethyl	3.68	Spike	P	0 - 31
2370073	Parathion Methyl	3.77	Spike	P	0 - 29
2370073	PBDE-47	15.2	Spike	P	0 - 36
2370073	PBDE-99	11.8	Spike	P	0 - 40
2370073	Pendimethalin	0.153	Spike	P	0 - 33
2370073	Phenytoin	13.9	Spike	P	0 - 100
2370073	Phorate	0.416	Spike	P	0 - 36
2370073	Prodiamine	0.894	Spike	P	0 - 71
2370073	Prometon	8.95	Spike	P	0 - 36
2370073	Prometryn	15.7	Spike	P	0 - 28
2370073	Pronamide	1.39	Spike	P	0 - 24
2370073	Propanil	2.88	Spike	P	0 - 28
2370073	Propargite	5.84	Spike	P	0 - 43
2370073	Propiconazole	12.7	Spike	P	0 - 33
2370073	Pyraflufen Ethyl	9.70	Spike	P	0 - 29
2370073	Pyridaben	15.8	Spike	P	0 - 30
2370073	Pyriproxyfen	10.9	Spike	P	0 - 79
2370073	Simazine	1.78	Spike	P	0 - 29
2370073	Stirophos	18.9	Spike	P	0 - 61
2370073	Sulfentrazone	4.64	Spike	P	0 - 33
2370073	Tebuconazole	14.5	Spike	P	0 - 69
2370073	Terbufos	8.67	Spike	P	0 - 29
2370073	Terbutylazine	2.52	Spike	P	0 - 32
2370073	Thiobencarb	16.1	Spike	P	0 - 26
2370073	Tri-o-cresyl Phosphate	12.4	Spike	P	0 - 33
2370073	Triadimefon	3.36	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P422354

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369877	Chlordane	4.09	Spike	P	0 - 25
2369877	Toxaphene	18.8	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P422312

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369532	Acesulfame K	3.32	Spike	P	0 - 30
2369532	AMPA	2.85	Spike	P	0 - 30
2369532	Endothall	1.69	Spike	P	0 - 30
2369532	Glufosinate	10.1	Spike	P	0 - 30
2369532	Glyphosate	8.22	Spike	P	0 - 30
2369532	Sucralose	6.61	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P422538

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369273	2,4-D	3.22	Spike	P	0 - 30
2369273	2,4,5-T	15.5	Spike	P	0 - 30
2369273	Acetaminophen	1.17	Spike	P	0 - 30
2369273	Acetamiprid	0.268	Spike	P	0 - 30
2369273	Afidopyropen	0.392	Spike	P	0 - 30
2369273	Bentazon	5.65	Spike	P	0 - 30
2369273	Benzovindiflupyr	5.05	Spike	P	0 - 30
2369273	Carbamazepine	4.33	Spike	P	0 - 30
2369273	Clothianidin	7.07	Spike	P	0 - 30
2369273	Dinotefuran	3.04	Spike	P	0 - 30
2369273	Diuron	3.34	Spike	P	0 - 30
2369273	Fenuron	6.21	Spike	P	0 - 30
2369273	Fluridone	0.650	Spike	P	0 - 30
2369273	Hydrocodone	0.0742	Spike	P	0 - 30
2369273	Ibuprofen	5.11	Spike	P	0 - 30
2369273	Imazapyr	1.28	Spike	P	0 - 30
2369273	Imidacloprid	2.04	Spike	P	0 - 30
2369273	Linuron	1.02	Spike	P	0 - 30
2369273	Mandestrobin	0.314	Spike	P	0 - 30
2369273	MCPP	4.86	Spike	P	0 - 30
2369273	Naproxen	7.87	Spike	P	0 - 30
2369273	Primidone	3.57	Spike	P	0 - 30
2369273	Pyraclostrobin	1.14	Spike	P	0 - 30
2369273	Silvex	12.0	Spike	P	0 - 30
2369273	Thiamethoxam	0.177	Spike	P	0 - 30
2369273	Tolfenpyrad	3.84	Spike	P	0 - 30
2369273	Triclopyr	1.05	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P422615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2370070	3-Hydroxycarbofuran	7.55	Spike	P	0 - 30
2370070	Aldicarb	2.54	Spike	P	0 - 30
2370070	Aldicarb Sulfone	11.2	Spike	P	0 - 30
2370070	Aldicarb Sulfoxide	17.3	Spike	P	0 - 30
2370070	Carbaryl	4.23	Spike	P	0 - 30
2370070	Carbofuran	12.7	Spike	P	0 - 30
2370070	Methiocarb	11.2	Spike	P	0 - 30
2370070	Methomyl	5.65	Spike	P	0 - 30
2370070	Oxamyl	0.491	Spike	P	0 - 30
2370070	Propoxur	9.82	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
 Batch ID: P422779

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2370209	Total Alkalinity	0.105	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
 Batch ID: P422852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369236	TDS	6.84	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
 Batch ID: P422783

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2370209	Fluoride	0.516	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
 Batch ID: P422788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2370067	Organic Carbon	0.0363	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2370070
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	53.7	P	30 - 160

Lab Sample ID: 2370071
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	130	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.6	P	30 - 160
EPA 8321B	Diuron-d6	68.7	P	30 - 160
EPA 8321B	Endothall-d6	40.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	88.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	87.4	P	30 - 160
EPA 8321B	Primidone-d5	107	P	30 - 160
EPA 8321B	Sucralose-d6	126	P	30 - 160

Lab Sample ID: 2370072
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	98.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	64.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	65.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	58.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	47.2	P	30 - 101
EPA 8276	PCNB	90.2	P	48 - 121

Lab Sample ID: 2370073
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	81.7	P	20 - 200
EPA 8270E	Simazine-d10	94.6	P	62 - 142
EPA 8270E	Terbufos-d10	101	P	58 - 132
EPA 8270E	Terphenyl-d14	77.6	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A115961

Included Lab Sample IDs: 2370066

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.5	99.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115965

Included Lab Sample IDs: 2370066

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A115967

Included Lab Sample IDs: 2370068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115978

Included Lab Sample IDs: 2370071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	119	119	P/P	60 - 160
Sucralose	98.7	103	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A115981

Included Lab Sample IDs: 2370071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	94.1	112	P/P	60 - 160
Endothall	61.4	80.2	P/P	60 - 160
Glufosinate	74.8	81.1	P/P	60 - 160
Glyphosate	99.8	106	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A116076

Included Lab Sample IDs: 2370067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A116081

Included Lab Sample IDs: 2370071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	97.3	106	P/P	50 - 150
2,4,5-T	112	104	P/P	50 - 150
3-Hydroxycarbofuran	101	102	P/P	60 - 150
Acetaminophen	102	103	P/P	60 - 160
Acetamiprid	104	105	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A116081
Included Lab Sample IDs: 2370071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	95.8	91.9	P/P	50 - 150
Aldicarb	91.6	90.6	P/P	60 - 150
Aldicarb Sulfone	108	101	P/P	50 - 150
Aldicarb Sulfoxide	102	101	P/P	50 - 150
Bentazon	96.9	97.4	P/P	50 - 160
Benzovindiflupyr	98.1	101	P/P	50 - 150
Carbamazepine	98.9	110	P/P	60 - 150
Carbaryl	105	108	P/P	60 - 150
Carbofuran	97.5	101	P/P	50 - 150
Clothianidin	105	99.5	P/P	60 - 150
Dinotefuran	111	109	P/P	50 - 150
Diuron	104	107	P/P	60 - 160
Fenuron	107	104	P/P	60 - 150
Fluridone	99.9	106	P/P	60 - 160
Hydrocodone	99.5	100	P/P	60 - 150
Ibuprofen	107	107	P/P	50 - 160
Imazapyr	102	102	P/P	50 - 150
Imidacloprid	106	97.9	P/P	60 - 150
Linuron	103	99.9	P/P	60 - 150
Mandestrobin	108	103	P/P	50 - 150
MCPP	106	103	P/P	50 - 150
Methiocarb	105	111	P/P	50 - 150
Methomyl	103	98.1	P/P	50 - 150
Naproxen	127	102	P/P	50 - 160
Oxamyl	97.7	105	P/P	50 - 150
Primidone	100	99.3	P/P	60 - 150
Propoxur	106	108	P/P	50 - 150
Pyraclostrobin	104	105	P/P	60 - 150
Silvex	104	99.3	P/P	50 - 150
Thiamethoxam	100	104	P/P	50 - 150
Tolfenpyrad	104	101	P/P	60 - 150
Triclopyr	114	114	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116085
Included Lab Sample IDs: 2370067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.5	94.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A116096
Included Lab Sample IDs: 2370067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	102	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A116122
Included Lab Sample IDs: 2370072

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	91.8		P	80 - 120
Alpha-Chlordane	86.8		P	80 - 120
Beta-BHC	96.5		P	80 - 120
Beta-Cyfluthrin	94.3		P	80 - 120
Bifenthrin	92.8		P	80 - 120
Chlorothalonil	88.7		P	80 - 120
Cis-Nonachlor	92.8		P	80 - 120
Cypermethrin	94.6		P	80 - 120
Dacthal	97.2		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	95.5		P	80 - 120
Delta-BHC	85.5		P	80 - 120
Deltamethrin	83.9		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	97.6		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	97.6		P	80 - 120
Endosulfan II	95.5		P	80 - 120
Endosulfan Sulfate	99.7		P	80 - 120
Endrin	97.3		P	80 - 120
Endrin Aldehyde	105		P	80 - 120
Endrin Ketone	144*		F	80 - 120
Esfenvalerate	89.9		P	80 - 120
Ethalfuralin	90.3		P	80 - 120
Fenpropathrin	96.9		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	88.5		P	80 - 120
Heptachlor	91.6		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	98.3		P	80 - 120
Kepone	76.4*		F	80 - 120
Lambda-Cyhalothrin	93.0		P	80 - 120
Methoprene	92.2		P	80 - 120
Methoxychlor	89.0		P	80 - 120
MGK-264	92.6		P	80 - 120
Mirex	101		P	80 - 120
Oxychlordane	93.8		P	80 - 120
Permethrin	91.1		P	80 - 120
Phenothrin	91.9		P	80 - 120
Piperonyl Butoxide	97.9		P	80 - 120
Prallethrin	90.1		P	80 - 120
Tau-Fluvalinate	93.5		P	80 - 120
Tetramethrin	94.5		P	80 - 120
Trans-Nonachlor	98.2		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	95.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A116124
Included Lab Sample IDs: 2370073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	100		P	80 - 120
Alachlor	90.8		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine Desethyl	88.0		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Azoxystrobin	99.3		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	91.8		P	80 - 120
Caffeine	98.7		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	92.7		P	80 - 120
Chlorfenapyr	106		P	80 - 120
Chlorpyrifos Ethyl	99.6		P	80 - 120
Chlorpyrifos Methyl	99.8		P	80 - 120
Coumaphos	107		P	80 - 120
Cyanazine	95.9		P	80 - 120
Cyprodinil	106		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	108		P	80 - 120
Dimethenamid	98.8		P	80 - 120
Dimethomorph	98.9		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	88.9		P	80 - 120
EPTC	101		P	80 - 120
Ethion	89.9		P	80 - 120
Ethoprop	105		P	80 - 120
Etridiazole	108		P	80 - 120
Fenamiphos	88.8		P	80 - 120
Fenbuconazole	98.9		P	80 - 120
Fipronil	93.6		P	80 - 120
Fipronil Desulfinyl	95.3		P	80 - 120
Fipronil Sulfone	83.3		P	80 - 120
Fluazifop-P-butyl	93.2		P	80 - 120
Fludioxonil	107		P	80 - 120
Flumioxazin	109		P	80 - 120
Flutolanil	87.9		P	80 - 120
Fluxapyroxad	80.3		P	80 - 120
Fonofos	96.9		P	80 - 120
Hexazinone	99.3		P	80 - 120
Imazalil	95.7		P	80 - 120
Iprodione	77.5*		F	80 - 120
Loratadine	108		P	80 - 120
Malathion	99.5		P	80 - 120
Metalaxyl	94.8		P	80 - 120
Metolachlor	109		P	80 - 120
Metribuzin	92.8		P	80 - 120
Mevinphos	104		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	107		P	80 - 120
Naled	92.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A116124
Included Lab Sample IDs: 2370073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Napropamide	87.1		P	80 - 120
Norflurazon	101		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	95.3		P	80 - 120
Parathion Ethyl	109		P	80 - 120
Parathion Methyl	103		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	102		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	95.7		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	86.5		P	80 - 120
Pronamide	96.8		P	80 - 120
Propanil	93.7		P	80 - 120
Propargite	100		P	80 - 120
Propiconazole	93.0		P	80 - 120
Pyraflufen Ethyl	84.8		P	80 - 120
Pyridaben	114		P	80 - 120
Pyriproxyfen	116		P	80 - 120
Simazine	99.4		P	80 - 120
Stirophos	96.8		P	80 - 120
Sulfentrazone	82.6		P	80 - 120
Tebuconazole	84.6		P	80 - 120
Terbufos	97.9		P	80 - 120
Terbuthylazine	99.3		P	80 - 120
Thiobencarb	95.2		P	80 - 120
Triadimefon	113		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116130
Included Lab Sample IDs: 2370073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.8		P	80 - 120
Avobenzone	98.8		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Octinoxate	101		P	80 - 120
Oxybenzone	104		P	80 - 120
PBDE-47	98.0		P	80 - 120
PBDE-99	98.6		P	80 - 120
Tri-o-cresyl Phosphate	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116136
Included Lab Sample IDs: 2370072

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	91.1		P	80 - 120
PCB-1260	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A116138
Included Lab Sample IDs: 2370066

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.6	97.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A116138
Included Lab Sample IDs: 2370066

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

Reference Method: SM 5310 B-2011
Run ID: A116142
Included Lab Sample IDs: 2370067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.2	98.6	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A116150
Included Lab Sample IDs: 2370072

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	102		P	80 - 120
Toxaphene	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116157
Included Lab Sample IDs: 2370073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	102		P	80 - 120
Fipronil Sulfide	110		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116209
Included Lab Sample IDs: 2370067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	99.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A116259
Included Lab Sample IDs: 2370066

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

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	97.5				2.21	
EPA 180.1 Rev. 2.0	Turbidity	101				0.948	
EPA 300.0 Rev. 2.1	Chloride	102	99.5	99.2		3.57	
	Sulfate	101	96.1	98.9		3.90	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	97.4	100			2.64
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.5	92.2	92.2			0.0455
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104	100	101			0.250
EPA 365.1 Rev. 2.0	Total-P	103	104	104			0.280
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4	95.6	97.7			1.81
EPA 8270E	2-Ethylhexyl	73.1	79.9	91.0			12.9
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	121	88.6	95.2			7.14
	Alachlor	97.9	76.9	86.3			11.6
	Aldrin	62.7	53.6	56.8			5.79
	Alpha-BHC	86.0	71.8	75.4			4.78
	Alpha-Chlordane	96.4	69.2	62.3			10.5
	Ametryn	136	135	149			9.22
	Atrazine	113					5.82
	Atrazine Desethyl	71.2	22.2	54.9			28.5
	Avobenzone	104	107	115			7.30
	Azinphos Methyl	132	97.0	96.1			0.946
	Azoxystrobin	125	104	106			0.843
	Beta-BHC	95.2	82.5	79.7			3.48
	Beta-Cyfluthrin	81.0	57.5	63.9			10.6
	Bifenthrin	65.3	46.4	54.5			16.1
	Bromacil	117	116	125			7.92
	Butylate	57.1	77.9	72.9			6.60
	Caffeine	91.6	80.4	91.2			11.9
	Carbophenothion	124	110	102			7.20
	Carfentrazone Ethyl	92.6	70.8	64.0			10.2
	Chlorfenapyr	96.7	77.7	79.8			2.70
	Chlorothalonil	92.6	74.8	85.8			13.7
	Chlorpyrifos Ethyl	64.8	51.4	53.5			4.12
	Chlorpyrifos Methyl	115	87.1	89.7			2.95
	Cis-Nonachlor	77.2	55.6	59.7			7.12
	Coumaphos	203	160	168			4.74
	Cyanazine	126	92.6	116			22.2
	Cypermethrin	85.1	56.6	66.9			16.6
	Cyprodinil	141	113	117			3.53
	Dacthal	87.6	70.4	76.2			7.89
	DDD-p,p'	89.5	67.7	70.8			4.52
	DDE-p,p'	85.3	66.3	71.0			6.85
	DDT-p,p'	76.6	57.7	63.8			9.96
	Dechlorane Plus	95.7	77.5	86.6			11.1
	Delta-BHC	91.2	75.0	79.8			6.26
	Deltamethrin	40.5	46.4	28.1			49.2
	Demeton	95.7	109	107			2.17
	Diazinon	119	98.9	93.3			5.88
	Dichlobenil	101	91.4	85.0			7.29
	Dicofol	87.0	66.3	69.9			5.22
	Dieldrin	86.8	72.4	75.6			4.32
	Difenoconazole	185	152	154			1.53
	Dimethenamid	95.0	73.7	75.7			2.70

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dimethomorph	145	111	124		10.9
	Disulfoton	106	90.1	87.4		3.02
	Dithiopyr	93.1	77.5	86.3		10.8
	Endosulfan I	82.9	68.5	66.1		3.57
	Endosulfan II	81.9	67.1	70.9		5.61
	Endosulfan Sulfate	90.4	73.9	74.6		0.938
	Endrin	80.0	69.0	70.2		1.85
	Endrin Aldehyde	79.6	63.9	71.8		11.6
	Endrin Ketone	127	102	111		8.78
	EPTC	51.4	67.0	66.9		0.221
	Esfenvalerate	76.5	51.6	64.7		22.5
	Ethalfuralin	75.4	59.1	62.4		5.42
	Ethion	53.5	44.2	51.2		14.6
	Ethoprop	97.8	104	104		0.0048
	Etridiazole	67.0	71.8	63.4		12.4
	Fenamiphos	83.0	59.4	63.0		5.88
	Fenbuconazole	94.4	69.8	75.9		8.40
	Fenpropathrin	86.1	62.4	64.6		3.48
	Fipronil	97.7	77.6	84.7		6.28
	Fipronil Desulfinyl	101	60.9	83.2		17.4
	Fipronil Sulfide	104	104	126		12.3
	Fipronil Sulfone	70.5				19.0
	Fluazifop-P-butyl	107	124	128		3.45
	Fludioxonil	117	92.4	95.4		3.22
	Flumioxazin	152	158	158		0.329
	Flutolanil	77.2	54.1	62.2		13.8
	Fluxapyroxad	97.4	84.5	89.3		5.47
	Fonofos	108	131	122		6.98
	Gamma-BHC	78.4	68.6	80.8		16.3
	Gamma-Chlordane	90.9	71.2	61.9		13.9
	Heptachlor	67.7	56.9	62.6		9.43
	Heptachlor Epoxide	80.7	71.0	73.6		3.57
	Hexachlorobenzene	76.5	59.5	60.2		1.21
	Hexazinone	110	99.1	103		3.98
	Imazalil	108	118	104		12.2
	Iprodione	118	106	121		13.1
	Kepone	64.1	55.3	56.8		2.65
	Lambda-Cyhalothrin	73.0	51.5	62.9		20.0
	Loratadine	198	164	160		2.38
	Malathion	119	95.0	101		6.41
	Metalaxyl	103	106	115		7.70
	Methoprene	79.6	56.2	63.0		11.5
	Methoxychlor	75.7	60.2	64.5		6.82
	Metolachlor	106	78.6	83.0		5.45
	Metribuzin	107	91.3	98.7		7.83
	Mevinphos	93.7	109	113		3.99
	MGK-264	79.4	67.2	74.5		10.2
	Mirex	66.1	50.2	57.1		13.0
	Molinate	78.7	90.7	92.4		1.85
	Myclobutanil	126	99.7	110		7.95
	Naled	79.7	72.4	91.7		23.6
	Napropamide	98.9	87.2	92.8		6.22
	Norflurazon	128	102	109		6.19
	Octinoxate	66.8	75.2	89.3		17.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Oxadiazon	108				0.786
	Oxybenzone	69.5	74.4	90.3		19.2
	Oxychlordane	77.3	65.7	72.7		10.1
	Oxyfluorfen	130	106	105		0.876
	Parathion Ethyl	118	104	108		3.68
	Parathion Methyl	126	119	123		3.77
	PBDE-47	72.3	74.0	86.2		15.2
	PBDE-99	74.7	75.6	85.1		11.8
	PCB-1016	73.8	72.9	74.0		1.48
	PCB-1260	82.6	69.6	72.7		4.29
	Pendimethalin	104	90.8	90.9		0.153
	Permethrin	81.0	58.7	67.7		14.3
	Phenothrin	64.1	48.6	58.3		18.2
	Phenytoin	57.9	86.8	99.7		13.9
	Phorate	85.7	73.2	73.5		0.416
	Piperonyl Butoxide	96.1	71.4	78.8		9.88
	Prallethrin	82.3	65.9	69.5		5.28
	Prodiamine	100	113	112		0.894
	Prometon	94.9	67.8	74.1		8.95
	Prometryn	78.1	62.4	73.0		15.7
	Pronamide	107	79.2	78.1		1.39
	Propanil	105	88.1	90.7		2.88
	Propargite	191	161	171		5.84
	Propiconazole	88.3	42.1	58.1		12.7
	Pyraflufen Ethyl	81.7	60.5	66.7		9.70
	Pyridaben	209	205	172		15.8
	Pyriproxyfen	167	132	118		10.9
	Simazine	103	107	110		1.78
	Stiophos	108	80.4	97.2		18.9
	Sulfentrazone	86.1	177	164		4.64
	Tau-Fluvalinate	73.3	49.6	60.6		19.9
	Tebuconazole	87.3	64.0	75.1		14.5
	Terbufos	126	113	104		8.67
	Terbuthylazine	110	117	114		2.52
	Tetramethrin	93.6	69.0	80.4		15.3
	Thiobencarb	55.9	57.6	67.7		16.1
	Trans-Nonachlor	81.8	63.6	64.4		1.35
	Tri-o-cresyl Phosphate	69.9	76.5	86.7		12.4
	Triadimefon	108	115	119		3.36
	Triclosan Methyl	86.7	68.6	63.6		7.59
	Trifluralin	77.2	59.1	63.4		6.89
EPA 8276	Chlordane	74.3	81.5	84.9		4.09
	Toxaphene	81.0	112	92.9		18.8
EPA 8321B	2,4-D	110	105	100		3.22
	2,4,5-T	81.0	73.2	62.7		15.5
	3-Hydroxycarbofuran	85.3	86.9	93.7		7.55
	Acesulfame K	124	135	139		3.32
	Acetaminophen	84.5	86.0	87.0		1.17
	Acetamiprid	81.1	25.2	25.4		0.268
	Afidopyropen	58.9	71.7	71.4		0.392
	Aldicarb	70.9	47.6	46.4		2.54
	Aldicarb Sulfone	94.2	113	101		11.2
	Aldicarb Sulfoxide	97.7	60.8	51.1		17.3
	AMPA	117	100	103		2.85

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Bentazon	78.2					5.65
	Benzovindiflupyr	77.2	73.4	77.2			5.05
	Carbamazepine	78.0					4.33
	Carbaryl	65.4	45.9	44.0			4.23
	Carbofuran	70.0	55.4	48.8			12.7
	Clothianidin	88.4	18.3	10.5			7.07
	Dinotefuran	87.5					3.04
	Diuron	72.0	46.2	44.5			3.34
	Endothall	97.3	99.2	101			1.69
	Fenuron	101	82.6	77.6			6.21
	Fluridone	88.2	75.4	74.9			0.650
	Glufosinate	113	128	116			10.1
	Glyphosate	114	156	143			8.22
	Hydrocodone	92.3	106	106			0.0742
	Ibuprofen	81.4	74.2	78.1			5.11
	Imazapyr	80.6	126	124			1.28
	Imidacloprid	96.6					2.04
	Linuron	69.4	76.1	76.9			1.02
	Mandestrobin	85.6	81.0	80.7			0.314
	MCPP	99.7	79.6	73.3			4.86
	Methiocarb	66.6	57.9	51.7			11.2
	Methomyl	91.9	85.8	81.1			5.65
	Naproxen	78.4	78.0	84.4			7.87
	Oxamyl	88.0	85.5	85.1			0.491
	Primidone	92.2					3.57
	Propoxur	79.2	55.4	50.2			9.82
	Pyraclostrobin	72.1	80.1	81.0			1.14
	Silvex	84.0	94.9	84.1			12.0
	Sucralose	101					6.61
	Thiamethoxam	92.8	122	122			0.177
	Tolfenpyrad	37.7	54.3	56.4			3.84
	Triclopyr	86.1	67.5	68.2			1.05
SM 2320 B-2011	Total Alkalinity	98.6				0.105	
SM 2540 C-2015	TDS	99.3				6.84	
SM 2540 D-2015	TSS	91.5					
SM 4500-F- C-2011	Fluoride	100	100	99.3			0.516
SM 5310 B-2011	Organic Carbon	100	98.9	98.9			0.0363

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2370066
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2370066
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2370066
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2370066
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2370067
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2370067
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2370067
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2370067
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2370068
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2370073
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2370072

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2370073
EPA 8270E	PCBs in water matrices by GC/MS/MS	2370072
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2370072
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2370070
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2370071
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2370066
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2370066
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2370066
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2370066
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2370067

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	11/16/2022			11/16/2022 14:22	Chandler E Cox	2370066
EPA 180.1 Rev. 2.0	11/16/2022			11/16/2022 14:06	Khloe J Berg	2370066
EPA 300.0 Rev. 2.1	11/16/2022			12/02/2022 01:04	James L Waggeberby	2370066
EPA 350.1 Rev. 2.0	11/16/2022			12/01/2022 12:05	Ping Hua	2370067
EPA 351.2 Rev. 2.0	11/16/2022	11/18/2022 10:00	Alexandra J Mattheus	11/21/2022 18:23	Judith K. Clark	2370067
EPA 353.2 Rev. 2.0	11/16/2022			11/22/2022 10:04	Beverly Y. Sanders	2370067
EPA 365.1 Rev. 2.0	11/16/2022	11/18/2022 07:29	Adam P Silver	11/21/2022 14:48	James L Waggeberby	2370067
EPA 365.1 Rev. 2.0 dissolved	11/16/2022			11/16/2022 17:39	Elise M. Gillis	2370068
EPA 8270E	11/16/2022	11/17/2022 08:00	Fe-Val Siddell	11/18/2022 20:37	Julie Wi	2370072
	11/16/2022	11/17/2022 08:00	Fe-Val Siddell	11/18/2022 23:49	Michael Poppell	2370072
	11/16/2022	11/21/2022 08:00	Fe-Val Siddell	11/21/2022 20:27	Michael Poppell	2370073
	11/16/2022	11/21/2022 08:00	Fe-Val Siddell	11/22/2022 16:41	Arthur Maknenko	2370073
	11/16/2022	11/21/2022 08:00	Fe-Val Siddell	11/28/2022 15:44	Michael Poppell	2370073
	11/16/2022	11/21/2022 08:00	Fe-Val Siddell	11/28/2022 17:08	Michael Poppell	2370073
EPA 8276	11/16/2022	11/17/2022 08:00	Fe-Val Siddell	11/19/2022 16:39	Lipi Saha	2370072
EPA 8321B	11/16/2022	11/16/2022 14:00	Umesh Chiluwal	11/16/2022 17:13	Umesh Chiluwal	2370071
	11/16/2022	11/16/2022 14:00	Umesh Chiluwal	11/17/2022 05:28	Umesh Chiluwal	2370071
	11/16/2022	11/18/2022 09:30	June Rhew	11/21/2022 23:19	Juyoung Kim	2370071
	11/16/2022	11/18/2022 09:30	June Rhew	11/22/2022 10:21	Juyoung Kim	2370071
	11/16/2022	11/21/2022 10:00	June Rhew	11/22/2022 02:26	Juyoung Kim	2370070
SM 2320 B-2011	11/16/2022			11/23/2022 03:11	Dale L. Simmons	2370066
SM 2540 C-2015	11/16/2022			11/18/2022 16:39	Yijie Li	2370066
SM 2540 D-2015	11/16/2022			11/18/2022 16:39	Yijie Li	2370066
SM 4500-F- C-2011	11/16/2022			11/23/2022 03:11	Dale L. Simmons	2370066
SM 5310 B-2011	11/16/2022			11/22/2022 17:52	Touraj Touran	2370067