

Chemical Analysis Report

SO-DIST-2022-10-25-02

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

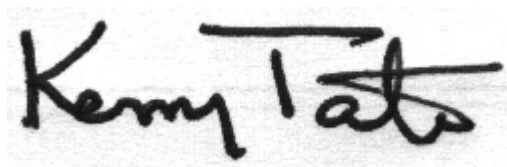
Event Description: **2022 SMP: Lee Cricks**
Request ID: **RQ-2022-10-03-63**
Customer: **SO-DIST**
Project ID: **SMP**

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: 16-NOV-2022 12:16

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: Yuccaflatwoods Mid

Collection Date/Time: 10/24/2022 09:15

Field ID: G2SD0052

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364814	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P421383	
	SM 2320 B-2011	Total Alkalinity	169		mg CaCO3/L	P421661	
	SM 2540 D-2015	TSS	8	I	mg/L	P421852	
	SM 4500-F- C-2011	Fluoride	0.73		mg F/L	P421665	
2364815	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P421683	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P421637	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P421717	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P421769	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P422187	

Ref. Method and Comment:

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

Sample Location: Yucca Pen Marine @ N of Old Burntstore

Collection Date/Time: 10/24/2022 09:45

Field ID: G2SD0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364816	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P421383	
	SM 2320 B-2011	Total Alkalinity	102		mg CaCO3/L	P421652	
	SM 2540 D-2015	TSS	2	I	mg/L	P421851	
	SM 4500-F- C-2011	Fluoride	0.057	I	mg F/L	P421662	
2364817	EPA 350.1 Rev. 2.0	Ammonia-N	0.060		mg N/L	P421955	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P421638	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P421676	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P421508	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P421635	

Ref. Method and Comment:

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

Sample Location: Manuel Branch @ Neighborhood Park

Collection Date/Time: 10/24/2022 10:45

Field ID: G1SD0070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364825	EPA 8321B	Aldicarb	0.020	U	ug/L	P421445	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P421445	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P421445	
		Carbaryl	0.0020	U	ug/L	P421445	
		Carbofuran	0.0020	U	ug/L	P421445	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P421445	
		Methiocarb	0.0020	U	ug/L	P421445	
		Methomyl	0.0020	U	ug/L	P421445	
		Oxamyl	0.0020	U	ug/L	P421445	
		Propoxur	0.0020	U	ug/L	P421445	
2364826		Acesulfame K	0.10	U	ug/L	P421330	
		2,4-D	0.0020	U	ug/L	P421444	
		AMPA	0.10	U	ug/L	P421330	
		2,4,5-T	0.0040	U	ug/L	P421444	
		Acetaminophen	0.023	I	ug/L	P421444	
		Acetamiprid	0.0020	U	ug/L	P421444	
		Endothall	0.25	U	ug/L	P421330	MS
		Glufosinate	0.10	U	ug/L	P421330	
		Glyphosate	0.13	I	ug/L	P421330	
		Afidopyropen	0.0020	U	ug/L	P421444	
		Sucralose	0.35		ug/L	P421330	
		Bentazon	0.020		ug/L	P421444	
		Benzovindiflupyr	0.0020	U	ug/L	P421444	
		Carbamazepine	0.0011	I	ug/L	P421444	
		Clothianidin	0.0042	I	ug/L	P421444	
		Dinotefuran	0.0020	U	ug/L	P421444	
		Diuron	0.0023	I	ug/L	P421444	
		Fenuron	0.032	U	ug/L	P421444	
		Fluridone	8.0E-04	U	ug/L	P421444	
		Imazapyr	0.18		ug/L	P421444	
		Hydrocodone	0.0020	U	ug/L	P421444	
		Ibuprofen	0.20	U	ug/L	P421444	
		Imidacloprid	0.062		ug/L	P421444	MS
		Linuron	0.0040	U	ug/L	P421444	
		Mandestrobin	0.0020	U	ug/L	P421444	
		MCPP	0.0040	U	ug/L	P421444	
		Naproxen	0.0080	U	ug/L	P421444	
		Primidone	0.0040	U	ug/L	P421444	
		Pyraclostrobin	0.0020	U	ug/L	P421444	
		Silvex	0.0040	U	ug/L	P421444	
		Thiamethoxam	0.0020	U	ug/L	P421444	
		Tolfenpyrad	0.0020	U	ug/L	P421444	
		Triclopyr	0.0040	U	ug/L	P421444	
2364827	EPA 8270E	Aldrin	0.68	U	ng/L	P421468	

Field ID: G1SD0070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364827	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P421468	CCV
		Alpha-Chlordane	0.21	U	ng/L	P421468	
		PCB-1016	2.1	U	ng/L	P421468	
		Beta-BHC	0.12	I	ng/L	P421468	
		PCB-1221	2.1	U	ng/L	P421468	
		Beta-Cyfluthrin	1.3	UJ	ng/L	P421468	
		PCB-1232	2.1	U	ng/L	P421468	
		Bifenthrin	0.54	I	ng/L	P421468	
		PCB-1242	2.1	U	ng/L	P421468	
		PCB-1248	2.1	U	ng/L	P421468	
		Chlorothalonil	1.3	U	ng/L	P421468	
		PCB-1254	2.1	U	ng/L	P421468	
		Cis-Nonachlor	0.21	U	ng/L	P421468	
		PCB-1260	2.1	U	ng/L	P421468	
		Cypermethrin	1.6	U	ng/L	P421468	
		Dacthal	0.16	U	ng/L	P421468	
		DDD-p,p'	0.26	U	ng/L	P421468	
		DDE-p,p'	0.21	U	ng/L	P421468	
		DDT-p,p'	0.26	U	ng/L	P421468	
		Delta-BHC	0.42	U	ng/L	P421468	
		Deltamethrin	1.3	U	ng/L	P421468	
		Dichlobenil	0.26	U	ng/L	P421468	
		Dicofol	1.3	U	ng/L	P421468	
		Dieldrin	2.5		ng/L	P421468	
		Endosulfan I	0.42	U	ng/L	P421468	
		Endosulfan II	0.42	U	ng/L	P421468	
		Endosulfan Sulfate	0.31	U	ng/L	P421468	
		Endrin	0.42	U	ng/L	P421468	
		Endrin Aldehyde	0.78	U	ng/L	P421468	
		Endrin Ketone	0.42	U	ng/L	P421468	
		Esfenvalerate	0.78	U	ng/L	P421468	
		Ethalfuralin	0.16	U	ng/L	P421468	
		Fenpropathrin	0.26	U	ng/L	P421468	
		Gamma-BHC	0.13	U	ng/L	P421468	
		Gamma-Chlordane	0.21	U	ng/L	P421468	
		Heptachlor	0.21	U	ng/L	P421468	
		Heptachlor Epoxide	0.26	U	ng/L	P421468	
		Hexachlorobenzene**	1.0	U	ng/L	P421468	CCV
		Kepone	5.2	UJ	ng/L	P421468	
		Lambda-Cyhalothrin	0.78	U	ng/L	P421468	
		Methoprene	0.78	U	ng/L	P421468	
		Methoxychlor	0.31	U	ng/L	P421468	
		MGK-264	0.21	U	ng/L	P421468	
		Mirex	0.37	U	ng/L	P421468	
		Oxychlordane	0.31	U	ng/L	P421468	

Field ID: G1SD0070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364827	EPA 8270E	Permethrin	1.7	U	ng/L	P421468	
		Phenothrin	0.94	U	ng/L	P421468	
		Piperonyl Butoxide	0.39	I	ng/L	P421468	
		Prallethrin	2.1	U	ng/L	P421468	
		Tau-Fluvalinate	0.26	UJ	ng/L	P421468	CCV
		Tetramethrin	0.78	U	ng/L	P421468	
		Trans-Nonachlor	0.21	UJ	ng/L	P421468	LCS
		Triclosan Methyl	0.16	U	ng/L	P421468	
		Trifluralin	0.21	U	ng/L	P421468	
		Chlordane	2.6	U	ng/L	P421468	
	EPA 8276	Toxaphene	16	U	ng/L	P421468	
		Oxybenzone**	9.7	U	ng/L	P421534	
		Acetochlor	0.24	U	ng/L	P421534	
		Octinoxate**	19	U	ng/L	P421534	
		Alachlor	0.24	U	ng/L	P421534	
		Avobenzone**	97	U	ng/L	P421534	
		Ametryn	0.58	U	ng/L	P421534	
		Atrazine	0.24	U	ng/L	P421534	
		PBDE-47**	3.9	U	ng/L	P421534	
		Atrazine Desethyl	1.4	U	ng/L	P421534	
2364828	EPA 8270E	PBDE-99**	4.8	U	ng/L	P421534	
		Azinphos Methyl	1.9	U	ng/L	P421534	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P421534	
		Azoxystrobin	0.48	U	ng/L	P421534	
		Bromacil	0.48	U	ng/L	P421534	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P421534	
		Butylate	0.39	U	ng/L	P421534	
		Dechlorane Plus**	29	U	ng/L	P421534	
		Caffeine**	7.2	UQ	ng/L	P422093	
		Carbophenothion	0.19	U	ng/L	P421534	
		Carfentrazone Ethyl	0.27	I	ng/L	P421534	
		Chlorfenapyr	0.17	U	ng/L	P421534	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P421534	
		Chlorpyrifos Methyl	0.048	U	ng/L	P421534	
		Coumaphos	0.48	U	ng/L	P421534	
		Cyanazine	3.1	U	ng/L	P421534	
		Cyprodinil	0.097	U	ng/L	P421534	
		Demeton	1.4	U	ng/L	P421534	
		Diazinon	0.12	UJ	ng/L	P421534	MS
		Difenoconazole	0.58	U	ng/L	P421534	
		Dimethenamid	0.097	U	ng/L	P421534	
		Dimethomorph	0.17	U	ng/L	P421534	
		Disulfoton	0.48	U	ng/L	P421534	
		Dithiopyr	0.60	U	ng/L	P421534	

Field ID: G1SD0070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364828	EPA 8270E	EPTC	1.2	U	ng/L	P421534	
		Ethion	0.14	U	ng/L	P421534	
		Ethoprop	0.097	U	ng/L	P421534	
		Etridiazole	0.14	U	ng/L	P421534	
		Fenamiphos	0.48	U	ng/L	P421534	
		Fenbuconazole	0.12	U	ng/L	P421534	
		Fipronil	0.34	I	ng/L	P421534	
		Fipronil Desulfinyl**	0.12	UJ	ng/L	P421534	CCV
		Fipronil Sulfide	0.64		ng/L	P421534	
		Fipronil Sulfone	0.82		ng/L	P421534	
		Fluazifop-P-butyl	0.097	U	ng/L	P421534	
		Fludioxonil	0.12	U	ng/L	P421534	
		Flumioxazin	4.3	U	ng/L	P421534	
		Flutolanil	0.097	U	ng/L	P421534	
		Fluxapyroxad	0.097	U	ng/L	P421534	
		Fonofos	0.19	U	ng/L	P421534	
		Hexazinone	11		ng/L	P421534	
		Imazalil	0.72	U	ng/L	P421534	
		Iprodione	0.58	UJ	ng/L	P421534	RPD
		Loratadine**	0.34	U	ng/L	P421534	
		Malathion	0.34	U	ng/L	P421534	
		Metalaxyl	0.72	U	ng/L	P421534	
		Metolachlor	0.34	U	ng/L	P421534	
		Metribuzin	3.4	I	ng/L	P421534	
		Mevinphos	1.0	U	ng/L	P421534	
		Molinate	0.29	U	ng/L	P421534	
		Myclobutanil	0.24	U	ng/L	P421534	
		Naled	1.4	U	ng/L	P421534	
		Napropamide	0.39	U	ng/L	P421534	
		Norflurazon	0.48	U	ng/L	P421534	
		Oxadiazon	0.77	I	ng/L	P421534	
		Oxyfluorfen	0.14	U	ng/L	P421534	
		Parathion Ethyl	0.24	U	ng/L	P421534	
		Parathion Methyl	0.53	U	ng/L	P421534	
		Pendimethalin	0.97	U	ng/L	P421534	
		Phenytol**	3.4	U	ng/L	P421534	
		Phorate	0.51	U	ng/L	P421534	
		Prodiamine	0.17	U	ng/L	P421534	
		Prometon	0.87	U	ng/L	P421534	
		Prometryn	0.19	U	ng/L	P421534	
		Pronamide	0.14	U	ng/L	P421534	
		Propanil	0.12	U	ng/L	P421534	
		Propargite	1.4	U	ng/L	P421534	
		Propiconazole	2.6		ng/L	P421534	
		Pyraflufen Ethyl	0.24	U	ng/L	P421534	

Field ID: G1SD0070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364828	EPA 8270E	Pyridaben	0.43	U	ng/L	P421534	
		Pyriproxyfen	0.12	U	ng/L	P421534	
		Simazine	0.48	U	ng/L	P421534	
		Stirophos	0.12	U	ng/L	P421534	
		Sulfentrazone	20		ng/L	P421534	
		Tebuconazole	1.3	I	ng/L	P421534	
		Terbufos	0.097	U	ng/L	P421534	
		Terbuthylazine	0.41	U	ng/L	P421534	
		Thiobencarb	0.58	U	ng/L	P421534	
		Triadimefon	0.24	U	ng/L	P421534	
2364829	EPA 200.7 Rev. 4.4	Calcium	78.1		mg/L	P421525	
		Iron	430		ug/L	P421525	
		Magnesium	7.55		mg/L	P421525	
		Potassium	3.4		mg/L	P421525	
		Sodium	38.6		mg/L	P421525	
		Strontium	777		ug/L	P421525	
		Tin	3.0	U	ug/L	P421525	
		Titanium	0.85	I	ug/L	P421525	
		Vanadium	5.0	I	ug/L	P421525	
		Zinc	5.0	U	ug/L	P421525	
	EPA 200.8 Rev. 5.4	Aluminum	23		ug/L	P421525	
		Antimony	0.14	I	ug/L	P421525	
		Arsenic	2.20		ug/L	P421525	
		Barium	20.9		ug/L	P421525	
		Beryllium	0.015	I	ug/L	P421525	
		Boron	84.2		ug/L	P421525	
		Cadmium	0.020	U	ug/L	P421525	
		Chromium	0.83	I	ug/L	P421525	
		Cobalt	0.082		ug/L	P421525	
		Copper	0.58	I	ug/L	P421757	
		Lead	0.26	I	ug/L	P421525	
		Manganese	19.4		ug/L	P421525	
		Molybdenum	5.93		ug/L	P421525	
		Nickel	0.50	U	ug/L	P421525	
		Selenium	0.26	I	ug/L	P421525	
		Silver	0.010	U	ug/L	P421525	
		Thallium	0.10	U	ug/L	P421525	
	SM 2340 B-2011	Hardness	226		mg/L	P421525	

Ref. Method and Comment:

EPA 8321B: MS accuracy for Glyphosate 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 sulfentrazone not assessed due to high content of this parameter in the sample spiked. Sample expired for preparation for caffeine due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for aluminum are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421383

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421525

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: P421525

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
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
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.78	I	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: P421757

Component	Result	Code	Units
Copper	0.40	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421683

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421955

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421637

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421638

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421676

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421717

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421508

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421769

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

Reference Method: EPA 8270E
Batch ID: P421468

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421468

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421468

Component	Result	Code	Units
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
Oxychlorthane	0.30	U	ng/L
Oxychlorthane	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421534

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
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421534

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421534

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421534

Component	Result	Code	Units
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 8270E

Batch ID: P422093

Component	Result	Code	Units
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L

Reference Method: EPA 8276

Batch ID: P421468

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: P421330

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: P421444

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P421444

Component	Result	Code	Units
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: P421445

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: P421652

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

Reference Method: SM 2320 B-2011

Batch ID: P421661

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P421851

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P421852

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P421662

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P421665

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P421635

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2011
Batch ID: P422187

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P421383

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

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P421525

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	106		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	98.6		P	85 - 115
Sodium	100		P	85 - 115
Strontium	102		P	85 - 115
Tin	102		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P421525

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.1		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	101		P	85 - 115
Barium	103		P	85 - 115
Beryllium	94.1		P	80 - 120
Boron	102		P	85 - 115
Cadmium	98.0		P	85 - 115
Chromium	99.9		P	85 - 115
Cobalt	99.1		P	85 - 115
Lead	93.6		P	85 - 115
Manganese	100		P	85 - 115
Molybdenum	97.0		P	85 - 115
Nickel	99.6		P	85 - 115
Selenium	99.6		P	85 - 115
Silver	98.6		P	85 - 115
Thallium	98.0		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P421757

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Copper	98.0		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P421683

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421955

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421637

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421638

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421676

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421717

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421508

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421769

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

Reference Method: EPA 8270E
Batch ID: P421468

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.2		P	10 - 92.0
Alpha-BHC	82.0		P	75 - 107
Alpha-Chlordane	61.1		P	50 - 108
Beta-BHC	80.6		P	36 - 138
Beta-Cyfluthrin	60.0		P	20 - 161
Bifenthrin	38.5		P	10 - 119
Chlorothalonil	94.7		P	26 - 186
Cis-Nonachlor	50.5		P	42 - 119
Cypermethrin	64.1		P	22 - 150
Dacthal	82.5		P	72 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P421468

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDD-p,p'	65.6		P	45 - 107
DDE-p,p'	59.0		P	48 - 106
DDT-p,p'	59.1		P	48 - 110
Delta-BHC	90.9		P	54 - 140
Deltamethrin	55.0		P	22 - 189
Dichlobenil	82.3		P	36 - 117
Dicofol	65.9		P	46 - 155
Dieldrin	60.0		P	54 - 110
Endosulfan I	60.1		P	59 - 105
Endosulfan II	61.6		P	51 - 118
Endosulfan Sulfate	85.5		P	57 - 121
Endrin	65.0		P	10 - 120
Endrin Aldehyde	61.7		P	34 - 118
Endrin Ketone	92.4		P	69 - 177
Esfenvalerate	39.5		P	23 - 168
Ethalfuralin	61.0		P	49 - 99.0
Fenpropathrin	53.2		P	34 - 117
Gamma-BHC	81.7		P	72 - 117
Gamma-Chlordane	54.2		P	43 - 106
Heptachlor	67.2		P	41 - 98.0
Heptachlor Epoxide	70.1		P	57 - 106
Hexachlorobenzene	68.4		P	36 - 99.0
Kepone	26.1		P	16 - 215
Lambda-Cyhalothrin	42.7		P	21 - 177
Methoprene	45.5		P	10 - 119
Methoxychlor	67.1		P	60 - 112
MGK-264	74.0		P	26 - 122
Mirex	42.6		P	10 - 169
Oxychlordane	71.3		P	43 - 105
PCB-1016	73.4		P	48 - 112
PCB-1260	72.7		P	44 - 118
Permethrin	57.1		P	24 - 148
Phenothrin	47.7		P	10 - 106
Piperonyl Butoxide	101		P	10 - 139
Prallethrin	82.8		P	17 - 109
Tau-Fluvalinate	32.1		P	13 - 131
Tetramethrin	70.0		P	10 - 132
Trans-Nonachlor	41.9		F	44 - 106
Triclosan Methyl	75.6		P	59 - 109
Trifluralin	65.3		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P421534

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	76.0		P	42 - 162
Acetochlor	87.7		P	69 - 123
Alachlor	80.8		P	65 - 118
Ametryn	103		P	58 - 141
Atrazine	94.7		P	73 - 118
Atrazine Desethyl	63.5		P	32 - 125
Avobenzone	88.2		P	40 - 203

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P421534

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Azinphos Methyl	135		P	36 - 197
Azoxystrobin	74.7		P	58 - 226
Bromacil	105		P	48 - 120
Butylate	54.6		P	27 - 85.0
Carbophenothion	129		P	54 - 132
Carfentrazone Ethyl	102		P	60 - 142
Chlorfenapyr	101		P	53 - 117
Chlorpyrifos Ethyl	73.9		P	59 - 116
Chlorpyrifos Methyl	82.6		P	66 - 119
Coumaphos	143		P	11 - 234
Cyanazine	184		P	61 - 248
Cyprodinil	96.6		P	50 - 147
Dechlorane Plus	82.1		P	47 - 182
Demeton	71.2		P	30 - 138
Diazinon	72.9		P	67 - 126
Difenoconazole	205		P	38 - 205
Dimethenamid	60.4		P	57 - 111
Dimethomorph	175		P	16 - 212
Disulfoton	91.2		P	46 - 126
Dithiopyr	86.0		P	62 - 115
EPTC	47.3		P	28 - 80.0
Ethion	76.0		P	24 - 122
Ethoprop	81.1		P	62 - 113
Etridiazole	66.0		P	28 - 92.0
Fenamiphos	75.4		P	57 - 128
Fenbuconazole	143		P	52 - 155
Fipronil	100		P	63 - 130
Fipronil Desulfinyl	102		P	61 - 130
Fipronil Sulfide	93.1		P	56 - 117
Fipronil Sulfone	88.1		P	52 - 118
Fluazifop-P-butyl	81.3		P	61 - 128
Fludioxonil	80.9		P	59 - 129
Flumioxazin	192		P	30 - 250
Flutolanil	73.5		P	53 - 127
Fluxapyroxad	92.8		P	42 - 132
Fonofos	70.0		P	61 - 110
Hexazinone	86.8		P	46 - 139
Imazalil	97.8		P	40 - 139
Iprodione	114		P	40 - 146
Loratadine	149		P	10 - 224
Malathion	93.1		P	61 - 135
Metaxyl	98.4		P	58 - 121
Metolachlor	99.5		P	64 - 118
Metribuzin	88.0		P	45 - 245
Mevinphos	90.4		P	49 - 118
Molinate	58.2		P	42 - 92.0
Myclobutanil	78.3		P	55 - 127
Naled	78.0		P	10 - 114
Napropamide	75.4		P	39 - 121
Norflurazon	77.0		P	55 - 129
Octinoxate	66.1		P	26 - 166
Oxadiazon	87.4		P	54 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P421534

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxybenzone	52.8		P	49 - 135
Oxyfluorfen	120		P	64 - 139
Parathion Ethyl	91.8		P	70 - 111
Parathion Methyl	121		P	76 - 136
PBDE-47	73.0		P	41 - 148
PBDE-99	70.0		P	38 - 147
Pendimethalin	74.7		P	52 - 118
Phenytol	107		P	10 - 162
Phorate	64.4		P	40 - 122
Prodiamine	34.4		P	26 - 141
Prometon	119		P	54 - 122
Prometryn	91.8		P	61 - 128
Pronamide	104		P	72 - 121
Propanil	115		P	45 - 144
Propargite	188		P	10 - 199
Propiconazole	99.5		P	56 - 127
Pyraflufen Ethyl	80.8		P	56 - 140
Pyridaben	151		P	26 - 211
Pyriproxyfen	188		P	33 - 194
Simazine	112		P	67 - 121
Stirophos	60.3		P	20 - 142
Sulfentrazone	106		P	21 - 144
Tebuconazole	112		P	10 - 122
Terbufos	74.7		P	60 - 129
Terbuthylazine	88.4		P	69 - 113
Thiobencarb	101		P	51 - 120
Tri-o-cresyl Phosphate	59.1		P	49 - 150
Triadimefon	111		P	56 - 114

Reference Method: EPA 8270E

Batch ID: P422093

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	94.6		P	40 - 137

Reference Method: EPA 8276

Batch ID: P421468

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	76.2		P	61 - 116
Toxaphene	67.7		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P421330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.9		P	40 - 150
AMPA	103		P	40 - 150
Endothall	95.0		P	40 - 150
Glufosinate	92.1		P	40 - 150
Glyphosate	94.6		P	40 - 150
Sucralose	92.5		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P421444

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	81.5		P	40 - 150
2,4,5-T	76.4		P	40 - 150
Acetaminophen	99.2		P	30 - 150
Acetamiprid	71.9		P	40 - 150
Afidopyropen	53.5		P	30 - 150
Bentazon	104		P	30 - 150
Benzovindiflupyr	86.0		P	40 - 150
Carbamazepine	94.2		P	40 - 150
Clothianidin	92.6		P	40 - 150
Dinotefuran	115		P	40 - 150
Diuron	85.5		P	40 - 150
Fenuron	112		P	40 - 150
Fluridone	99.1		P	40 - 150
Hydrocodone	102		P	40 - 150
Ibuprofen	80.3		P	40 - 150
Imazapyr	96.6		P	40 - 150
Imidacloprid	101		P	40 - 150
Linuron	81.1		P	40 - 150
Mandestrobin	89.4		P	40 - 150
MCPP	99.6		P	40 - 150
Naproxen	61.8		P	40 - 150
Primidone	89.1		P	40 - 150
Pyraclostrobin	75.5		P	40 - 150
Silvex	69.7		P	40 - 150
Thiamethoxam	99.0		P	40 - 150
Tolfenpyrad	38.0		P	30 - 150
Triclopyr	68.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P421445

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	100		P	40 - 150
Aldicarb	106		P	30 - 150
Aldicarb Sulfone	109		P	40 - 150
Aldicarb Sulfoxide	99.0		P	40 - 150
Carbaryl	75.1		P	40 - 150
Carbofuran	80.5		P	40 - 150
Methiocarb	74.6		P	40 - 150
Methomyl	97.0		P	40 - 150
Oxamyl	99.8		P	40 - 150
Propoxur	71.9		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P421652

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P421661

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

Reference Method: SM 2540 D-2015
Batch ID: P421851

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	91.9		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P421852

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.6		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P421662

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P421665

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P421635

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

Reference Method: SM 5310 B-2011
Batch ID: P422187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P421525

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364870	Calcium	102		P	80 - 120
2364870	Iron	107	106	P/P	80 - 120
2364870	Magnesium	103	100	P/P	80 - 120
2364870	Potassium	100	98.8	P/P	80 - 120
2364870	Sodium	105	102	P/P	80 - 120
2364870	Strontium	104	102	P/P	80 - 120
2364870	Tin	103	102	P/P	80 - 120
2364870	Titanium	104	102	P/P	80 - 120
2364870	Vanadium	104	102	P/P	80 - 120
2364870	Zinc	106	105	P/P	80 - 120
2365511	Calcium	105		P	80 - 120
2365511	Iron	106		P	80 - 120
2365511	Magnesium	104		P	80 - 120
2365511	Potassium	100		P	80 - 120
2365511	Sodium	106		P	80 - 120
2365511	Strontium	106		P	80 - 120
2365511	Tin	102		P	80 - 120
2365511	Titanium	107		P	80 - 120
2365511	Vanadium	104		P	80 - 120
2365511	Zinc	108		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P421525

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364870	Aluminum	97.9	96.4	P/P	80 - 120
2364870	Antimony	103	101	P/P	80 - 120
2364870	Arsenic	101	100	P/P	80 - 120
2364870	Barium	104	102	P/P	80 - 120
2364870	Beryllium	98.2	98.5	P/P	80 - 120
2364870	Boron	105	104	P/P	80 - 120
2364870	Cadmium	101	98.6	P/P	80 - 120
2364870	Chromium	102	101	P/P	80 - 120
2364870	Cobalt	98.3	97.0	P/P	80 - 120
2364870	Lead	97.4	93.5	P/P	80 - 120
2364870	Manganese	107	101	P/P	80 - 120
2364870	Molybdenum	100	98.2	P/P	80 - 120
2364870	Nickel	99.1	98.6	P/P	80 - 120
2364870	Selenium	98.7	96.7	P/P	80 - 120
2364870	Silver	101	98.8	P/P	80 - 120
2364870	Thallium	99.9	99.7	P/P	80 - 120
2365511	Antimony	97.2		P	80 - 120
2365511	Arsenic	100		P	80 - 120
2365511	Barium	102		P	80 - 120
2365511	Beryllium	92.1		P	80 - 120
2365511	Boron	105		P	80 - 120
2365511	Cadmium	98.2		P	80 - 120
2365511	Chromium	96.6		P	80 - 120
2365511	Cobalt	95.7		P	80 - 120
2365511	Lead	93.0		P	80 - 120
2365511	Manganese	105		P	80 - 120
2365511	Molybdenum	97.1		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421525

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365511	Nickel	93.8		P	80 - 120
2365511	Selenium	95.4		P	80 - 120
2365511	Silver	100		P	80 - 120
2365511	Thallium	99.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421757

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365548	Copper	95.3		P	80 - 120
2366226	Copper	97.8	98.8	P/P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364673	Ammonia-N	99.6	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421955

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364757	Ammonia-N	100	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421637

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364841	Kjeldahl Nitrogen	97.0	96.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421638

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364726	Kjeldahl Nitrogen	99.3	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364757	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421717

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364604	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421508

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P421508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364858	Total-P	109	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P421769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365212	Total-P	98.8	97.8	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P421468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364466	PCB-1016	57.9	60.0	P/P	46 - 111
2364466	PCB-1260	57.0	57.7	P/P	45 - 114
2364468	Aldrin	67.9	69.8	P/P	20 - 82.0
2364468	Alpha-BHC	89.0	87.8	P/P	71 - 109
2364468	Alpha-Chlordane	58.8	48.8	P/P	42 - 106
2364468	Beta-BHC	99.4	97.7	P/P	69 - 180
2364468	Beta-Cyfluthrin	134	131	P/P	18 - 175
2364468	Bifenthrin	76.5	73.5	P/P	21 - 128
2364468	Chlorothalonil	124	126	P/P	10 - 300
2364468	Cis-Nonachlor	61.6	69.1	P/P	34 - 106
2364468	Cypermethrin	113	94.1	P/P	22 - 158
2364468	Dacthal	90.1	80.1	P/P	54 - 116
2364468	DDD-p,p'	87.6	85.5	P/P	34 - 107
2364468	DDE-p,p'	63.3	62.7	P/P	33 - 110
2364468	DDT-p,p'	66.1	63.5	P/P	50 - 122
2364468	Delta-BHC	117	118	P/P	77 - 193
2364468	Deltamethrin	119	124	P/P	10 - 195
2364468	Dichlobenil	89.9	88.4	P/P	25 - 113
2364468	Dicofol	71.3	75.6	P/P	38 - 247
2364468	Dieldrin	65.4	65.8	P/P	45 - 118
2364468	Endosulfan I	70.2	69.8	P/P	51 - 106
2364468	Endosulfan II	45.8	37.4	P/P	37 - 122
2364468	Endosulfan Sulfate	115	105	P/P	43 - 132
2364468	Endrin	76.4	66.8	P/P	29 - 101
2364468	Endrin Aldehyde	92.1	90.5	P/P	19 - 110
2364468	Endrin Ketone	103	108	P/P	60 - 140
2364468	Esfenvalerate	90.0	83.7	P/P	26 - 199
2364468	Ethalfuralin	67.4	57.9	P/P	45 - 99.0
2364468	Fenpropathrin	89.4	87.6	P/P	35 - 120
2364468	Gamma-BHC	98.0	95.7	P/P	63 - 128
2364468	Gamma-Chlordane	71.7	65.3	P/P	40 - 104
2364468	Heptachlor	60.9	56.5	P/P	36 - 97.0
2364468	Heptachlor Epoxide	86.6	87.4	P/P	49 - 184
2364468	Hexachlorobenzene	67.8	67.5	P/P	39 - 96.0
2364468	Kepone	32.4	29.2	P/P	10 - 217
2364468	Lambda-Cyhalothrin	80.0	71.6	P/P	21 - 193
2364468	Methoprene	74.9	68.2	P/P	20 - 106
2364468	Methoxychlor	82.9	86.6	P/P	53 - 118
2364468	MGK-264	97.3	99.1	P/P	40 - 118
2364468	Mirex	55.2	55.1	P/P	26 - 92.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P421468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364468	Oxychlordane	66.4	56.5	P/P	44 - 99.0
2364468	Permethrin	113	116	P/P	33 - 182
2364468	Phenothrin	86.6	82.3	P/P	10 - 129
2364468	Piperonyl Butoxide	124	129	P/P	10 - 211
2364468	Prallethrin	94.9	77.3	P/P	24 - 113
2364468	Tau-Fluvalinate	86.0	85.3	P/P	14 - 149
2364468	Tetramethrin	105	103	P/P	17 - 151
2364468	Trans-Nonachlor	54.0	46.4	P/P	42 - 102
2364468	Triclosan Methyl	85.7	83.4	P/P	48 - 108
2364468	Trifluralin	67.6	61.7	P/P	47 - 96.0

Reference Method: EPA 8270E

Batch ID: P421534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364828	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	71.7	78.9	P/P	26 - 165
2364828	Acetochlor	69.9	71.1	P/P	67 - 124
2364828	Alachlor	65.5	63.1	P/P	60 - 120
2364828	Ametryn	76.2	71.2	P/P	54 - 216
2364828	Atrazine	103	101	P/P	66 - 128
2364828	Atrazine Desethyl	60.0	53.4	P/P	15 - 122
2364828	Avobenzone	85.6	94.1	P/P	37 - 178
2364828	Azinphos Methyl	147	117	P/P	40 - 292
2364828	Azoxystrobin	81.4	81.9	P/P	35 - 220
2364828	Bromacil	99.5	86.9	P/P	45 - 127
2364828	Butylate	53.5	34.7	P/P	20 - 83.0
2364828	Carbophenothion	97.3	98.8	P/P	57 - 127
2364828	Carfentrazone Ethyl	91.5	86.3	P/P	51 - 141
2364828	Chlorfenapyr	99.6	89.4	P/P	46 - 111
2364828	Chlorpyrifos Ethyl	61.1	53.6	P/P	52 - 120
2364828	Chlorpyrifos Methyl	63.3	66.1	P/P	63 - 119
2364828	Coumaphos	126	115	P/P	10 - 228
2364828	Cyanazine	177	161	P/P	59 - 241
2364828	Cyprodinil	86.7	81.6	P/P	47 - 146
2364828	Dechlorane Plus	68.4	81.2	P/P	50 - 150
2364828	Demeton	64.5	69.9	P/P	40 - 136
2364828	Diazinon	71.3	61.3	P/F	69 - 132
2364828	Difenoconazole	178	179	P/P	57 - 258
2364828	Dimethenamid	65.1	57.1	P/P	54 - 110
2364828	Dimethomorph	146	185	P/P	28 - 210
2364828	Disulfoton	80.6	72.9	P/P	43 - 133
2364828	Dithiopyr	84.7	77.6	P/P	39 - 116
2364828	EPTC	47.6	47.3	P/P	20 - 78.0
2364828	Ethion	71.6	67.1	P/P	17 - 119
2364828	Ethoprop	82.1	78.7	P/P	66 - 120
2364828	Etridiazole	74.9	62.0	P/P	28 - 96.0
2364828	Fenamiphos	79.5	64.1	P/P	41 - 126
2364828	Fenbuconazole	141	111	P/P	42 - 169
2364828	Fipronil	128	127	P/P	61 - 132
2364828	Fipronil Desulfinyl	92.3	83.9	P/P	56 - 132
2364828	Fipronil Sulfide	102	103	P/P	48 - 119
2364828	Fipronil Sulfone	111	127	P/P	42 - 131

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P421534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364828	Fluazifop-P-butyl	81.6	83.7	P/P	53 - 131
2364828	Fludioxonil	83.9	73.3	P/P	56 - 127
2364828	Flumioxazin	168	126	P/P	19 - 300
2364828	Flutolanil	80.3	62.6	P/P	41 - 127
2364828	Fluxapyroxad	92.8	89.3	P/P	42 - 172
2364828	Fonofos	70.6	59.2	P/P	59 - 113
2364828	Hexazinone	92.3	89.1	P/P	66 - 122
2364828	Imazail	104	97.5	P/P	21 - 283
2364828	Iprodione	130	82.3	P/P	43 - 150
2364828	Loratadine	167	156	P/P	23 - 201
2364828	Malathion	102	84.3	P/P	58 - 136
2364828	Metaxyl	96.8	82.6	P/P	55 - 120
2364828	Metolachlor	103	89.0	P/P	57 - 121
2364828	Metribuzin	97.3	101	P/P	58 - 294
2364828	Mevinphos	97.1	78.9	P/P	50 - 126
2364828	Molinate	75.1	68.0	P/P	42 - 93.0
2364828	Myclobutanil	87.5	74.8	P/P	55 - 125
2364828	Naled	89.1	72.6	P/P	18 - 200
2364828	Napropamide	96.8	75.0	P/P	39 - 110
2364828	Norflurazon	99.8	79.7	P/P	48 - 128
2364828	Octinoxate	60.3	69.1	P/P	21 - 159
2364828	Oxadiazon	92.5	72.0	P/P	43 - 112
2364828	Oxybenzone	48.2	60.1	P/P	41 - 142
2364828	Oxyfluorfen	136	130	P/P	64 - 153
2364828	Parathion Ethyl	92.2	91.2	P/P	69 - 114
2364828	Parathion Methyl	90.3	106	P/P	79 - 139
2364828	PBDE-47	70.2	77.6	P/P	27 - 144
2364828	PBDE-99	65.7	72.8	P/P	18 - 150
2364828	Pendimethalin	86.0	82.5	P/P	50 - 139
2364828	Phenytoin	105	119	P/P	10 - 146
2364828	Phorate	60.4	60.8	P/P	54 - 161
2364828	Prodiamine	40.8	37.3	P/P	30 - 161
2364828	Prometon	123	134	P/P	45 - 134
2364828	Prometryn	82.7	76.3	P/P	45 - 137
2364828	Pronamide	93.8	99.2	P/P	65 - 133
2364828	Propanil	114	106	P/P	49 - 142
2364828	Propargite	190	151	P/P	10 - 203
2364828	Propiconazole	101	60.4	P/P	38 - 146
2364828	Pyraflufen Ethyl	88.4	69.1	P/P	34 - 153
2364828	Pyridaben	150	157	P/P	12 - 192
2364828	Pyriproxyfen	100	103	P/P	33 - 180
2364828	Simazine	89.2	94.4	P/P	51 - 157
2364828	Stirophos	87.3	87.3	P/P	10 - 128
2364828	Tebuconazole	109	94.2	P/P	10 - 133
2364828	Terbufos	83.2	74.5	P/P	65 - 139
2364828	Terbuthylazine	103	82.9	P/P	66 - 117
2364828	Thiobencarb	106	95.7	P/P	51 - 119
2364828	Tri-o-cresyl Phosphate	59.1	62.3	P/P	31 - 144
2364828	Triadimefon	111	97.3	P/P	48 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P422093

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368154	Caffeine	87.7	95.3	P/P	10 - 194

Reference Method: EPA 8276
Batch ID: P421468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364466	Chlordane	65.7	67.3	P/P	53 - 126
2364466	Toxaphene	60.2	62.3	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P421330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364287	Acesulfame K	98.5	79.2	P/P	40 - 150
2364287	AMPA	55.5	61.8	P/P	40 - 150
2364287	Endothall	171	172	F/F	40 - 150
2364287	Glufosinate	70.4	70.0	P/P	40 - 150
2364287	Sucralose	80.1	84.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365599	2,4-D	111	117	P/P	40 - 150
2365599	2,4,5-T	87.3	79.5	P/P	40 - 150
2365599	Acetaminophen	120	118	P/P	30 - 150
2365599	Acetamiprid	85.0	101	P/P	40 - 150
2365599	Afidopyropen	76.2	84.1	P/P	30 - 150
2365599	Bentazon	93.0	84.9	P/P	30 - 150
2365599	Benzovindiflupyr	86.6	90.8	P/P	40 - 150
2365599	Carbamazepine	91.7	95.6	P/P	40 - 150
2365599	Clothianidin	124	118	P/P	40 - 150
2365599	Dinotefuran	145	144	P/P	40 - 150
2365599	Diuron	79.3	73.2	P/P	40 - 150
2365599	Fenuron	105	104	P/P	40 - 150
2365599	Fluridone	101	99.8	P/P	40 - 150
2365599	Hydrocodone	123	124	P/P	40 - 150
2365599	Ibuprofen	95.5	89.8	P/P	40 - 150
2365599	Imazapyr	134	122	P/P	40 - 150
2365599	Imidacloprid	156	148	F/P	40 - 150
2365599	Linuron	85.0	78.1	P/P	40 - 150
2365599	Mandestrobin	88.3	89.6	P/P	40 - 150
2365599	MCPP	107	108	P/P	40 - 150
2365599	Naproxen	96.7	91.8	P/P	40 - 150
2365599	Primidone	111	98.3	P/P	40 - 150
2365599	Pyraclostrobin	88.1	89.5	P/P	40 - 150
2365599	Silvex	85.3	83.0	P/P	40 - 150
2365599	Thiamethoxam	145	141	P/P	40 - 150
2365599	Tolfenpyrad	53.3	52.8	P/P	30 - 150
2365599	Triclopyr	76.0	76.8	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P421445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364462	3-Hydroxycarbofuran	91.5	113	P/P	40 - 150
2364462	Aldicarb	56.4	77.2	P/P	30 - 150
2364462	Aldicarb Sulfone	107	120	P/P	40 - 150
2364462	Aldicarb Sulfoxide	49.5	65.8	P/P	40 - 150
2364462	Carbaryl	67.8	70.9	P/P	40 - 150
2364462	Carbofuran	72.4	78.3	P/P	40 - 150
2364462	Methiocarb	67.4	75.6	P/P	40 - 150
2364462	Methomyl	85.1	104	P/P	40 - 150
2364462	Oxamyl	91.6	115	P/P	40 - 150
2364462	Propoxur	64.8	65.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P421662

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364864	Fluoride	97.7	97.2	P/P	94 - 104

Reference Method: SM 4500-F- C-2011

Batch ID: P421665

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365150	Fluoride	97.5	98.2	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P421635

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364648	Organic Carbon	96.8	95.1	P/P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P422187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366264	Organic Carbon	90.0	91.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421383

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364672	Turbidity	0.387	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421525

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364870	Calcium	2.00	Spike	P	0 - 20
2364870	Iron	1.59	Spike	P	0 - 20
2364870	Magnesium	1.75	Spike	P	0 - 20
2364870	Potassium	1.19	Spike	P	0 - 20
2364870	Sodium	1.99	Spike	P	0 - 20
2364870	Strontium	1.43	Spike	P	0 - 20
2364870	Tin	1.31	Spike	P	0 - 20
2364870	Titanium	1.81	Spike	P	0 - 20
2364870	Vanadium	2.37	Spike	P	0 - 20
2364870	Zinc	1.59	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421525

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364870	Aluminum	1.47	Spike	P	0 - 20
2364870	Antimony	1.74	Spike	P	0 - 20
2364870	Arsenic	0.911	Spike	P	0 - 20
2364870	Barium	1.68	Spike	P	0 - 20
2364870	Beryllium	0.334	Spike	P	0 - 20
2364870	Boron	1.20	Spike	P	0 - 20
2364870	Cadmium	2.50	Spike	P	0 - 20
2364870	Chromium	1.18	Spike	P	0 - 20
2364870	Cobalt	1.25	Spike	P	0 - 20
2364870	Lead	4.10	Spike	P	0 - 20
2364870	Manganese	5.80	Spike	P	0 - 20
2364870	Molybdenum	1.93	Spike	P	0 - 20
2364870	Nickel	0.463	Spike	P	0 - 20
2364870	Selenium	2.02	Spike	P	0 - 20
2364870	Silver	1.92	Spike	P	0 - 20
2364870	Thallium	0.259	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421757

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366226	Copper	1.03	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364673	Ammonia-N	0.572	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421955

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364757	Ammonia-N	1.28	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421637

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364841	Kjeldahl Nitrogen	0.939	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421638

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364726	Kjeldahl Nitrogen	3.75	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421676

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364757	NO2NO3-N	0.489	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421717

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364604	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364858	Total-P	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365212	Total-P	0.899	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P421468

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364466	PCB-1016	3.64	Spike	P	0 - 32
2364466	PCB-1260	1.22	Spike	P	0 - 31
2364468	Aldrin	2.89	Spike	P	0 - 41
2364468	Alpha-BHC	1.47	Spike	P	0 - 25
2364468	Alpha-Chlordane	18.5	Spike	P	0 - 33
2364468	Beta-BHC	1.71	Spike	P	0 - 36
2364468	Beta-Cyfluthrin	2.56	Spike	P	0 - 42
2364468	Bifenthrin	3.89	Spike	P	0 - 53
2364468	Chlorothalonil	1.43	Spike	P	0 - 71
2364468	Cis-Nonachlor	11.5	Spike	P	0 - 29
2364468	Cypermethrin	18.0	Spike	P	0 - 40
2364468	Dacthal	11.8	Spike	P	0 - 26
2364468	DDD-p,p'	2.40	Spike	P	0 - 39
2364468	DDE-p,p'	0.920	Spike	P	0 - 33
2364468	DDT-p,p'	4.00	Spike	P	0 - 40
2364468	Delta-BHC	0.732	Spike	P	0 - 37
2364468	Deltamethrin	4.28	Spike	P	0 - 100
2364468	Dichlobenil	1.69	Spike	P	0 - 40
2364468	Dicofol	5.88	Spike	P	0 - 31
2364468	Dieldrin	0.627	Spike	P	0 - 27
2364468	Endosulfan I	0.595	Spike	P	0 - 23
2364468	Endosulfan II	20.0	Spike	P	0 - 28
2364468	Endosulfan Sulfate	9.73	Spike	P	0 - 38
2364468	Endrin	13.4	Spike	P	0 - 63
2364468	Endrin Aldehyde	1.72	Spike	P	0 - 60
2364468	Endrin Ketone	4.70	Spike	P	0 - 37
2364468	Esfenvalerate	7.17	Spike	P	0 - 52
2364468	Ethalfuralin	15.1	Spike	P	0 - 23
2364468	Fenpropathrin	2.00	Spike	P	0 - 32
2364468	Gamma-BHC	2.38	Spike	P	0 - 17
2364468	Gamma-Chlordane	9.37	Spike	P	0 - 40
2364468	Heptachlor	7.43	Spike	P	0 - 29
2364468	Heptachlor Epoxide	0.911	Spike	P	0 - 25
2364468	Hexachlorobenzene	0.491	Spike	P	0 - 36
2364468	Kepone	10.1	Spike	P	0 - 93
2364468	Lambda-Cyhalothrin	11.0	Spike	P	0 - 55
2364468	Methoprene	9.37	Spike	P	0 - 53
2364468	Methoxychlor	4.28	Spike	P	0 - 29
2364468	MGK-264	1.87	Spike	P	0 - 35
2364468	Mirex	0.258	Spike	P	0 - 46
2364468	Oxychlordane	16.2	Spike	P	0 - 29
2364468	Permethrin	2.48	Spike	P	0 - 44
2364468	Phenothrin	5.10	Spike	P	0 - 56
2364468	Piperonyl Butoxide	4.24	Spike	P	0 - 100
2364468	Prallethrin	20.5	Spike	P	0 - 42
2364468	Tau-Fluvalinate	0.717	Spike	P	0 - 54
2364468	Tetramethrin	1.89	Spike	P	0 - 51
2364468	Trans-Nonachlor	15.3	Spike	P	0 - 37
2364468	Triclosan Methyl	2.73	Spike	P	0 - 31
2364468	Trifluralin	9.03	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P421534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364828	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	9.65	Spike	P	0 - 37
2364828	Acetochlor	1.80	Spike	P	0 - 28
2364828	Alachlor	3.76	Spike	P	0 - 30
2364828	Ametryn	6.78	Spike	P	0 - 32
2364828	Atrazine	2.00	Spike	P	0 - 41
2364828	Atrazine Desethyl	11.7	Spike	P	0 - 36
2364828	Avobenzone	9.48	Spike	P	0 - 36
2364828	Azinphos Methyl	22.8	Spike	P	0 - 75
2364828	Azoxystrobin	0.610	Spike	P	0 - 39
2364828	Bromacil	13.5	Spike	P	0 - 33
2364828	Butylate	42.6	Spike	P	0 - 44
2364828	Carbophenothion	1.26	Spike	P	0 - 25
2364828	Carfentrazone Ethyl	5.42	Spike	P	0 - 27
2364828	Chlorfenapyr	10.9	Spike	P	0 - 24
2364828	Chlorpyrifos Ethyl	13.2	Spike	P	0 - 26
2364828	Chlorpyrifos Methyl	4.41	Spike	P	0 - 26
2364828	Coumaphos	9.66	Spike	P	0 - 28
2364828	Cyanazine	9.54	Spike	P	0 - 48
2364828	Cyprodinil	6.01	Spike	P	0 - 29
2364828	Dechlorane Plus	17.1	Spike	P	0 - 30
2364828	Demeton	7.93	Spike	P	0 - 33
2364828	Diazinon	15.2	Spike	P	0 - 29
2364828	Difenoconazole	0.331	Spike	P	0 - 34
2364828	Dimethenamid	13.2	Spike	P	0 - 39
2364828	Dimethomorph	20.7	Spike	P	0 - 51
2364828	Disulfoton	9.93	Spike	P	0 - 30
2364828	Dithiopyr	8.77	Spike	P	0 - 26
2364828	EPTC	0.727	Spike	P	0 - 43
2364828	Ethion	6.47	Spike	P	0 - 79
2364828	Ethoprop	4.22	Spike	P	0 - 29
2364828	Etridiazole	18.9	Spike	P	0 - 33
2364828	Fenamiphos	21.4	Spike	P	0 - 40
2364828	Fenbuconazole	23.6	Spike	P	0 - 74
2364828	Fipronil	0.307	Spike	P	0 - 29
2364828	Fipronil Desulfinyl	9.49	Spike	P	0 - 32
2364828	Fipronil Sulfide	0.851	Spike	P	0 - 30
2364828	Fipronil Sulfone	10.0	Spike	P	0 - 33
2364828	Fluazifop-P-butyl	2.54	Spike	P	0 - 38
2364828	Fludioxonil	13.5	Spike	P	0 - 29
2364828	Flumioxazin	28.9	Spike	P	0 - 51
2364828	Flutolanil	24.7	Spike	P	0 - 25
2364828	Fluxapyroxad	3.79	Spike	P	0 - 45
2364828	Fonofos	17.5	Spike	P	0 - 27
2364828	Hexazinone	1.77	Spike	P	0 - 30
2364828	Imazalil	6.87	Spike	P	0 - 100
2364828	Iprodione	38.6	Spike	F	0 - 33
2364828	Loratadine	6.84	Spike	P	0 - 56
2364828	Malathion	18.6	Spike	P	0 - 37
2364828	Metalaxyl	15.8	Spike	P	0 - 40
2364828	Metolachlor	14.6	Spike	P	0 - 29
2364828	Metribuzin	2.64	Spike	P	0 - 45

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P421534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364828	Mevinphos	20.7	Spike	P	0 - 29
2364828	Molinate	9.80	Spike	P	0 - 33
2364828	Myclobutanil	15.7	Spike	P	0 - 26
2364828	Naled	20.5	Spike	P	0 - 37
2364828	Napropamide	25.4	Spike	P	0 - 44
2364828	Norflurazon	22.4	Spike	P	0 - 30
2364828	Octinoxate	13.6	Spike	P	0 - 45
2364828	Oxadiazon	20.1	Spike	P	0 - 28
2364828	Oxybenzone	21.8	Spike	P	0 - 46
2364828	Oxyfluorfen	4.46	Spike	P	0 - 28
2364828	Parathion Ethyl	1.04	Spike	P	0 - 31
2364828	Parathion Methyl	16.2	Spike	P	0 - 29
2364828	PBDE-47	10.1	Spike	P	0 - 36
2364828	PBDE-99	10.3	Spike	P	0 - 40
2364828	Pendimethalin	4.14	Spike	P	0 - 33
2364828	Phenytoin	13.0	Spike	P	0 - 100
2364828	Phorate	0.683	Spike	P	0 - 36
2364828	Prodiamine	9.06	Spike	P	0 - 71
2364828	Prometon	8.44	Spike	P	0 - 36
2364828	Prometryn	8.09	Spike	P	0 - 28
2364828	Pronamide	4.54	Spike	P	0 - 24
2364828	Propanil	6.82	Spike	P	0 - 28
2364828	Propargite	22.8	Spike	P	0 - 43
2364828	Propiconazole	27.3	Spike	P	0 - 33
2364828	Pyraflufen Ethyl	24.5	Spike	P	0 - 29
2364828	Pyridaben	4.44	Spike	P	0 - 30
2364828	Pyriproxyfen	2.61	Spike	P	0 - 79
2364828	Simazine	5.66	Spike	P	0 - 29
2364828	Stirophos	0.00358	Spike	P	0 - 61
2364828	Sulfentrazone	12.7	Spike	P	0 - 33
2364828	Tebuconazole	12.9	Spike	P	0 - 69
2364828	Terbufos	11.0	Spike	P	0 - 29
2364828	Terbuthylazine	22.0	Spike	P	0 - 32
2364828	Thiobencarb	10.3	Spike	P	0 - 26
2364828	Tri-o-cresyl Phosphate	5.31	Spike	P	0 - 33
2364828	Triadimefon	13.5	Spike	P	0 - 28

Reference Method: EPA 8270E

Batch ID: P422093

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368154	Caffeine	8.06	Spike	P	0 - 74

Reference Method: EPA 8276

Batch ID: P421468

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364466	Chlordane	2.45	Spike	P	0 - 25
2364466	Toxaphene	3.41	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P421330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364287	Acesulfame K	21.7	Spike	P	0 - 30
2364287	AMPA	7.39	Spike	P	0 - 30
2364287	Endothall	0.471	Spike	P	0 - 30
2364287	Glufosinate	0.658	Spike	P	0 - 30
2364287	Glyphosate	2.68	Spike	P	0 - 30
2364287	Sucralose	0.696	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P421444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365599	2,4-D	5.23	Spike	P	0 - 30
2365599	2,4,5-T	9.38	Spike	P	0 - 30
2365599	Acetaminophen	2.13	Spike	P	0 - 30
2365599	Acetamiprid	17.4	Spike	P	0 - 30
2365599	Afidopyropen	9.86	Spike	P	0 - 30
2365599	Bentazon	4.91	Spike	P	0 - 30
2365599	Benzovindiflupyr	4.72	Spike	P	0 - 30
2365599	Carbamazepine	3.77	Spike	P	0 - 30
2365599	Clothianidin	4.94	Spike	P	0 - 30
2365599	Dinotefuran	1.18	Spike	P	0 - 30
2365599	Diuron	6.36	Spike	P	0 - 30
2365599	Fenuron	1.25	Spike	P	0 - 30
2365599	Fluridone	0.869	Spike	P	0 - 30
2365599	Hydrocodone	0.769	Spike	P	0 - 30
2365599	Ibuprofen	6.14	Spike	P	0 - 30
2365599	Imazapyr	5.38	Spike	P	0 - 30
2365599	Imidacloprid	5.15	Spike	P	0 - 30
2365599	Linuron	8.47	Spike	P	0 - 30
2365599	Mandestrobin	1.44	Spike	P	0 - 30
2365599	MCPP	0.987	Spike	P	0 - 30
2365599	Naproxen	5.26	Spike	P	0 - 30
2365599	Primidone	12.5	Spike	P	0 - 30
2365599	Pyraclostrobin	1.67	Spike	P	0 - 30
2365599	Silvex	2.80	Spike	P	0 - 30
2365599	Thiamethoxam	3.37	Spike	P	0 - 30
2365599	Tolfenpyrad	0.982	Spike	P	0 - 30
2365599	Triclopyr	1.14	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P421445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364462	3-Hydroxycarbofuran	21.2	Spike	P	0 - 30
2364462	Aldicarb	31.1	Spike	F	0 - 30
2364462	Aldicarb Sulfone	11.3	Spike	P	0 - 30
2364462	Aldicarb Sulfoxide	28.2	Spike	P	0 - 30
2364462	Carbaryl	4.45	Spike	P	0 - 30
2364462	Carbofuran	7.86	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P421445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364462	Methiocarb	11.4	Spike	P	0 - 30
2364462	Methomyl	20.0	Spike	P	0 - 30
2364462	Oxamyl	22.6	Spike	P	0 - 30
2364462	Propoxur	0.297	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P421652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364864	Total Alkalinity	0.233	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P421661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365150	Total Alkalinity	0.794	Sample	P	0 - 3.8

Reference Method: SM 4500-F- C-2011
Batch ID: P421662

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364864	Fluoride	0.482	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P421665

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365150	Fluoride	0.483	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P421635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364648	Organic Carbon	1.06	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P422187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366264	Organic Carbon	1.38	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2364825
Field Sample ID: G1SD0070

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	59.6	P	30 - 160

Lab Sample ID: 2364826
Field Sample ID: G1SD0070

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	114	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.4	P	30 - 160
EPA 8321B	Diuron-d6	71.8	P	30 - 160
EPA 8321B	Endothall-d6	126	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	75.6	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	90.3	P	30 - 160

Lab Sample ID: 2364827
Field Sample ID: G1SD0070

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	104	P	29 - 130
EPA 8270E	Decachlorobiphenyl	79.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	73.2	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	61.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	55.1	P	30 - 101
EPA 8276	PCNB	88.0	P	48 - 121

Lab Sample ID: 2364828
Field Sample ID: G1SD0070

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	89.3	P	20 - 200
EPA 8270E	Simazine-d10	97.5	P	62 - 142
EPA 8270E	Terbufos-d10	91.0	P	58 - 132
EPA 8270E	Terphenyl-d14	77.7	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115505

Included Lab Sample IDs: 2364814, 2364816

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.0	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A115529

Included Lab Sample IDs: 2364826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	96.2	113	P/P	60 - 160
Endothall	108	119	P/P	60 - 160
Glufosinate	75.4	91.7	P/P	60 - 160
Glyphosate	97.0	104	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A115569

Included Lab Sample IDs: 2364826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	100	P/P	60 - 160
Sucralose	94.6	93.2	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115603

Included Lab Sample IDs: 2364817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	99.8	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A115617

Included Lab Sample IDs: 2364817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.4	98.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A115624

Included Lab Sample IDs: 2364814, 2364816

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.5	104	P/P	90 - 110
Total Alkalinity	99.0	98.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115624

Included Lab Sample IDs: 2364814, 2364816

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115630

Included Lab Sample IDs: 2364817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115634

Included Lab Sample IDs: 2364826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	90.6	103	P/P	50 - 150
2,4,5-T	110	112	P/P	50 - 150
Acetaminophen	108	110	P/P	60 - 160
Acetamiprid	101	105	P/P	50 - 150
Afidopyropen	107	112	P/P	50 - 150
Bentazon	125	125	P/P	50 - 160
Benzovindiflupyr	102	109	P/P	50 - 150
Carbamazepine	111	115	P/P	60 - 150
Clothianidin	100	115	P/P	60 - 150
Dinotefuran	120	120	P/P	50 - 150
Diuron	109	105	P/P	60 - 160
Fenuron	105	105	P/P	60 - 150
Fluridone	111	112	P/P	60 - 160
Hydrocodone	109	110	P/P	60 - 150
Ibuprofen	86.5	94.9	P/P	50 - 160
Imazapyr	109	108	P/P	50 - 150
Imidacloprid	98.0	102	P/P	60 - 150
Linuron	104	109	P/P	60 - 150
Mandestrobin	104	107	P/P	50 - 150
MCPP	116	107	P/P	50 - 150
Naproxen	90.9	74.4	P/P	50 - 160
Primidone	100	105	P/P	60 - 150
Pyraclostrobin	106	106	P/P	60 - 150
Silvex	98.9	99.2	P/P	50 - 150
Thiamethoxam	104	107	P/P	50 - 150
Tolfenpyrad	104	105	P/P	60 - 150
Triclopyr	115	106	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115637

Included Lab Sample IDs: 2364815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.6	99.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115645

Included Lab Sample IDs: 2364825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	113	116	P/P	60 - 150
Aldicarb	103	98.1	P/P	60 - 150
Aldicarb Sulfone	99.0	108	P/P	50 - 150
Aldicarb Sulfoxide	93.5	106	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A115645
Included Lab Sample IDs: 2364825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbaryl	109	103	P/P	60 - 150
Carbofuran	104	103	P/P	50 - 150
Methiocarb	105	103	P/P	50 - 150
Methomyl	97.1	110	P/P	50 - 150
Oxamyl	101	118	P/P	50 - 150
Propoxur	106	108	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A115646
Included Lab Sample IDs: 2364828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.8		P	80 - 120
Avobenzone	92.5		P	80 - 120
Dechlorane Plus	98.4		P	80 - 120
Octinoxate	103		P	80 - 120
Oxybenzone	97.6		P	80 - 120
PBDE-47	97.9		P	80 - 120
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	99.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A115648
Included Lab Sample IDs: 2364829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.0	95.9	P/P	90 - 110
Antimony	97.3	96.8	P/P	90 - 110
Arsenic	99.6	97.6	P/P	90 - 110
Barium	98.6	97.8	P/P	90 - 110
Beryllium	98.8	96.2	P/P	90 - 110
Boron	101	99.5	P/P	90 - 110
Cadmium	98.4	97.7	P/P	90 - 110
Chromium	96.4	95.8	P/P	90 - 110
Cobalt	95.8	93.9	P/P	90 - 110
Lead	92.2	91.1	P/P	90 - 110
Manganese	95.7	96.8	P/P	90 - 110
Molybdenum	97.7	96.9	P/P	90 - 110
Nickel	97.1	94.6	P/P	90 - 110
Selenium	99.6	97.4	P/P	90 - 110
Silver	97.0	96.0	P/P	90 - 110
Thallium	98.3	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A115654
Included Lab Sample IDs: 2364815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115671
Included Lab Sample IDs: 2364827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.6		P	80 - 120
PCB-1260	99.2		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A115676
Included Lab Sample IDs: 2364829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	103	P/P	95 - 105
Iron	103	104	P/P	95 - 105
Magnesium	101	101	P/P	95 - 105
Potassium	99.5	101	P/P	95 - 105
Sodium	99.9	102	P/P	95 - 105
Strontium	97.1	98.5	P/P	95 - 105
Tin	100	99.9	P/P	95 - 105
Titanium	100	99.2	P/P	95 - 105
Vanadium	99.7	99.2	P/P	95 - 105
Zinc	102	104	P/P	95 - 105

Reference Method: EPA 8270E
Run ID: A115680
Included Lab Sample IDs: 2364827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.7		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	89.6		P	80 - 120
Beta-Cyfluthrin	123*		F	80 - 120
Bifenthrin	110		P	80 - 120
Chlorothalonil	112		P	80 - 120
Cis-Nonachlor	86.7		P	80 - 120
Cypermethrin	83.4		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	119		P	80 - 120
DDE-p,p'	110		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	107		P	80 - 120
Deltamethrin	107		P	80 - 120
Dichlobenil	108		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	110		P	80 - 120
Endosulfan I	112		P	80 - 120
Endosulfan II	90.9		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	98.6		P	80 - 120
Endrin Aldehyde	94.6		P	80 - 120
Endrin Ketone	104		P	80 - 120
Esfenvalerate	115		P	80 - 120
Ethalfuralin	96.1		P	80 - 120
Fenpropathrin	115		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115680
Included Lab Sample IDs: 2364827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-BHC	99.5		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	118		P	80 - 120
Heptachlor Epoxide	96.1		P	80 - 120
Hexachlorobenzene	92.5		P	80 - 120
Kepone	50.6*		F	80 - 120
Lambda-Cyhalothrin	110		P	80 - 120
Methoprene	110		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	91.8		P	80 - 120
Mirex	109		P	80 - 120
Oxychlordane	107		P	80 - 120
Permethrin	110		P	80 - 120
Phenothrin	113		P	80 - 120
Piperonyl Butoxide	105		P	80 - 120
Prallethrin	111		P	80 - 120
Tau-Fluvalinate	120*		F	80 - 120
Tetramethrin	108		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	108		P	80 - 120
Trifluralin	98.5		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A115698
Included Lab Sample IDs: 2364817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A115715
Included Lab Sample IDs: 2364815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.4	98.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A115737
Included Lab Sample IDs: 2364829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	95.6	94.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A115748
Included Lab Sample IDs: 2364817

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115750

Included Lab Sample IDs: 2364815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.6	99.1	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A115751

Included Lab Sample IDs: 2364827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	103		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 8270E

Run ID: A115784

Included Lab Sample IDs: 2364828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	97.8		P	80 - 120
Ametryn	94.6		P	80 - 120
Atrazine	98.8		P	80 - 120
Atrazine Desethyl	116		P	80 - 120
Azinphos Methyl	87.4		P	80 - 120
Azoxystrobin	91.4		P	80 - 120
Bromacil	99.5		P	80 - 120
Butylate	109		P	80 - 120
Chlorfenapyr	99.8		P	80 - 120
Chlorpyrifos Ethyl	88.1		P	80 - 120
Chlorpyrifos Methyl	114		P	80 - 120
Coumaphos	91.1		P	80 - 120
Cyanazine	89.5		P	80 - 120
Cyprodinil	103		P	80 - 120
Diazinon	97.5		P	80 - 120
Difenoconazole	99.2		P	80 - 120
Dimethenamid	101		P	80 - 120
Disulfoton	111		P	80 - 120
Dithiopyr	105		P	80 - 120
EPTC	97.3		P	80 - 120
Ethion	99.3		P	80 - 120
Ethoprop	96.7		P	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	89.8		P	80 - 120
Fenbuconazole	91.8		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	129*		F	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	95.5		P	80 - 120
Fludioxonil	88.6		P	80 - 120
Flumioxazin	92.2		P	80 - 120
Flutolanil	94.2		P	80 - 120
Fluxapyroxad	97.7		P	80 - 120
Fonofos	93.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115784
Included Lab Sample IDs: 2364828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexazinone	98.4		P	80 - 120
Imazalil	89.7		P	80 - 120
Loratadine	84.1		P	80 - 120
Malathion	96.1		P	80 - 120
Metalaxyl	95.0		P	80 - 120
Metolachlor	99.2		P	80 - 120
Metribuzin	99.9		P	80 - 120
Mevinphos	99.4		P	80 - 120
Molinate	104		P	80 - 120
Myclobutanil	106		P	80 - 120
Naled	105		P	80 - 120
Napropamide	105		P	80 - 120
Norflurazon	99.4		P	80 - 120
Oxadiazon	109		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	105		P	80 - 120
Parathion Methyl	112		P	80 - 120
Pendimethalin	98.9		P	80 - 120
Phenytoin	91.5		P	80 - 120
Phorate	95.4		P	80 - 120
Prodiamine	97.3		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	87.4		P	80 - 120
Propanil	98.2		P	80 - 120
Propargite	87.5		P	80 - 120
Propiconazole	107		P	80 - 120
Pyraflufen Ethyl	99.3		P	80 - 120
Pyridaben	93.1		P	80 - 120
Simazine	89.6		P	80 - 120
Stirophos	95.5		P	80 - 120
Sulfentrazone	97.1		P	80 - 120
Tebuconazole	90.9		P	80 - 120
Terbufos	94.6		P	80 - 120
Terbuthylazine	99.7		P	80 - 120
Thiobencarb	92.2		P	80 - 120
Triadimefon	96.3		P	80 - 120

Reference Method: EPA 8270E
Run ID: A115786
Included Lab Sample IDs: 2364828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	110		P	80 - 120
Demeton	113		P	80 - 120
Pyriproxyfen	100		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A115847
Included Lab Sample IDs: 2364815

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A115847

Included Lab Sample IDs: 2364815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	93.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115878

Included Lab Sample IDs: 2364828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	89.7		P	80 - 120
Dimethomorph	106		P	80 - 120
Iprodione	96.7		P	80 - 120
Pronamide	91.1		P	80 - 120

Reference Method: EPA 8270E

Run ID: A115891

Included Lab Sample IDs: 2364828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Caffeine	89.8		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
EPA 180.1 Rev. 2.0	Turbidity	99.4					0.387	
EPA 200.7 Rev. 4.4	Calcium	102	102	105				2.00
	Iron	106	107	106	106			1.59
	Magnesium	102	103	100	104			1.75
	Potassium	98.6	100	98.8	100			1.19
	Sodium	100	105	102	106			1.99
	Strontium	102	104	102	106			1.43
	Tin	102	103	102	102			1.31
	Titanium	102	104	102	107			1.81
	Vanadium	101	104	102	104			2.37
	Zinc	104	106	105	108			1.59
EPA 200.8 Rev. 5.4	Aluminum	98.1	97.9	96.4				1.47
	Antimony	101	103	101	97.2			1.74
	Arsenic	101	101	100	100			0.911
	Barium	103	104	102	102			1.68
	Beryllium	94.1	98.2	98.5	92.1			0.334
	Boron	102	105	104	105			1.20
	Cadmium	98.0	101	98.6	98.2			2.50
	Chromium	99.9	102	101	96.6			1.18
	Cobalt	99.1	98.3	97.0	95.7			1.25
	Copper	98.0	97.8	98.8	95.3			1.03
	Lead	93.6	97.4	93.5	93.0			4.10
	Manganese	100	107	101	105			5.80
	Molybdenum	97.0	100	98.2	97.1			1.93
	Nickel	99.6	99.1	98.6	93.8			0.463
	Selenium	99.6	98.7	96.7	95.4			2.02
	Silver	98.6	101	98.8	100			1.92
	Thallium	98.0	99.9	99.7	99.7			0.259
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	99.6	100				0.572
	Ammonia-N	99.2	100	102				1.28
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.4	97.0	96.0				0.939
	Kjeldahl Nitrogen	101	99.3	107				3.75
EPA 353.2 Rev. 2.0	NO2NO3-N	102	102	102				0.489
	NO2NO3-N	100	102	103				0.487
EPA 365.1 Rev. 2.0	Total-P	106	109	108				1.01
	Total-P	105	98.8	97.8				0.899
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	76.0	71.7	78.9				9.65
	Acetochlor	87.7	69.9	71.1				1.80
	Alachlor	80.8	65.5	63.1				3.76
	Aldrin	51.2	67.9	69.8				2.89
	Alpha-BHC	82.0	89.0	87.8				1.47
	Alpha-Chlordane	61.1	58.8	48.8				18.5
	Ametryn	103	76.2	71.2				6.78
	Atrazine	94.7	103	101				2.00
	Atrazine Desethyl	63.5	60.0	53.4				11.7
	Avobenzone	88.2	85.6	94.1				9.48
	Azinphos Methyl	135	147	117				22.8
	Azoxystrobin	74.7	81.4	81.9				0.610
	Beta-BHC	80.6	99.4	97.7				1.71
	Beta-Cyfluthrin	60.0	134	131				2.56
	Bifenthrin	38.5	76.5	73.5				3.89
	Bromacil	105	99.5	86.9				13.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Butylate	54.6	53.5	34.7			42.6
	Caffeine	94.6	87.7	95.3			8.06
	Carbophenothion	129	97.3	98.8			1.26
	Carfentrazone Ethyl	102	91.5	86.3			5.42
	Chlorfenapyr	101	99.6	89.4			10.9
	Chlorothalonil	94.7	124	126			1.43
	Chlorpyrifos Ethyl	73.9	61.1	53.6			13.2
	Chlorpyrifos Methyl	82.6	63.3	66.1			4.41
	Cis-Nonachlor	50.5	61.6	69.1			11.5
	Coumaphos	143	126	115			9.66
	Cyanazine	184	177	161			9.54
	Cypermethrin	64.1	113	94.1			18.0
	Cyprodinil	96.6	86.7	81.6			6.01
	Dacthal	82.5	90.1	80.1			11.8
	DDD-p,p'	65.6	87.6	85.5			2.40
	DDE-p,p'	59.0	63.3	62.7			0.920
	DDT-p,p'	59.1	66.1	63.5			4.00
	Dechlorane Plus	82.1	68.4	81.2			17.1
	Delta-BHC	90.9	117	118			0.732
	Deltamethrin	55.0	119	124			4.28
	Demeton	71.2	64.5	69.9			7.93
	Diazinon	72.9	71.3	61.3			15.2
	Dichlobenil	82.3	89.9	88.4			1.69
	Dicofol	65.9	71.3	75.6			5.88
	Dieldrin	60.0	65.4	65.8			0.627
	Difenoconazole	205	178	179			0.331
	Dimethenamid	60.4	65.1	57.1			13.2
	Dimethomorph	175	146	185			20.7
	Disulfoton	91.2	80.6	72.9			9.93
	Dithiopyr	86.0	84.7	77.6			8.77
	Endosulfan I	60.1	70.2	69.8			0.595
	Endosulfan II	61.6	45.8	37.4			20.0
	Endosulfan Sulfate	85.5	115	105			9.73
	Endrin	65.0	76.4	66.8			13.4
	Endrin Aldehyde	61.7	92.1	90.5			1.72
	Endrin Ketone	92.4	103	108			4.70
	EPTC	47.3	47.6	47.3			0.727
	Esfenvalerate	39.5	90.0	83.7			7.17
	Ethalfuralin	61.0	67.4	57.9			15.1
	Ethion	76.0	71.6	67.1			6.47
	Ethoprop	81.1	82.1	78.7			4.22
	Etridiazole	66.0	74.9	62.0			18.9
	Fenamiphos	75.4	79.5	64.1			21.4
	Fenbuconazole	143	141	111			23.6
	Fenpropathrin	53.2	89.4	87.6			2.00
	Fipronil	100	128	127			0.307
	Fipronil Desulfinyl	102	92.3	83.9			9.49
	Fipronil Sulfide	93.1	102	103			0.851
	Fipronil Sulfone	88.1	111	127			10.0
	Fluazifop-P-butyl	81.3	81.6	83.7			2.54
	Fludioxonil	80.9	83.9	73.3			13.5
	Flumioxazin	192	168	126			28.9
	Flutolanil	73.5	80.3	62.6			24.7
	Fluxapyroxad	92.8	92.8	89.3			3.79

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Fonofos	70.0	70.6	59.2		17.5
	Gamma-BHC	81.7	98.0	95.7		2.38
	Gamma-Chlordane	54.2	71.7	65.3		9.37
	Heptachlor	67.2	60.9	56.5		7.43
	Heptachlor Epoxide	70.1	86.6	87.4		0.911
	Hexachlorobenzene	68.4	67.8	67.5		0.491
	Hexazinone	86.8	92.3	89.1		1.77
	Imazalil	97.8	104	97.5		6.87
	Iprodione	114	130	82.3		38.6
	Kepone	26.1	32.4	29.2		10.1
	Lambda-Cyhalothrin	42.7	80.0	71.6		11.0
	Loratadine	149	167	156		6.84
	Malathion	93.1	102	84.3		18.6
	Metalaxyl	98.4	96.8	82.6		15.8
	Methoprene	45.5	74.9	68.2		9.37
	Methoxychlor	67.1	82.9	86.6		4.28
	Metolachlor	99.5	103	89.0		14.6
	Metribuzin	88.0	97.3	101		2.64
	Mevinphos	90.4	97.1	78.9		20.7
	MGK-264	74.0	97.3	99.1		1.87
	Mirex	42.6	55.2	55.1		0.258
	Molinate	58.2	75.1	68.0		9.80
	Myclobutanil	78.3	87.5	74.8		15.7
	Naled	78.0	89.1	72.6		20.5
	Napropamide	75.4	96.8	75.0		25.4
	Norflurazon	77.0	99.8	79.7		22.4
	Octinoxate	66.1	60.3	69.1		13.6
	Oxadiazon	87.4	92.5	72.0		20.1
	Oxybenzone	52.8	48.2	60.1		21.8
	Oxychlordane	71.3	66.4	56.5		16.2
	Oxyfluorfen	120	136	130		4.46
	Parathion Ethyl	91.8	92.2	91.2		1.04
	Parathion Methyl	121	90.3	106		16.2
	PBDE-47	73.0	70.2	77.6		10.1
	PBDE-99	70.0	65.7	72.8		10.3
	PCB-1016	73.4	57.9	60.0		3.64
	PCB-1260	72.7	57.0	57.7		1.22
	Pendimethalin	74.7	86.0	82.5		4.14
	Permethrin	57.1	113	116		2.48
	Phenothrin	47.7	86.6	82.3		5.10
	Phenytain	107	105	119		13.0
	Phorate	64.4	60.4	60.8		0.683
	Piperonyl Butoxide	101	124	129		4.24
	Prallethrin	82.8	94.9	77.3		20.5
	Prodiamine	34.4	40.8	37.3		9.06
	Prometon	119	123	134		8.44
	Prometryn	91.8	82.7	76.3		8.09
	Pronamide	104	93.8	99.2		4.54
	Propanil	115	114	106		6.82
	Propargite	188	190	151		22.8
	Propiconazole	99.5	101	60.4		27.3
	Pyraflufen Ethyl	80.8	88.4	69.1		24.5
	Pyridaben	151	150	157		4.44
	Pyriproxyfen	188	100	103		2.61

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Simazine	112	89.2	94.4		5.66
	Stirophos	60.3	87.3	87.3		0.0035
	Sulfentrazone	106				12.7
	Tau-Fluvalinate	32.1	86.0	85.3		0.717
	Tebuconazole	112	109	94.2		12.9
	Terbufos	74.7	83.2	74.5		11.0
	Terbuthylazine	88.4	103	82.9		22.0
	Tetramethrin	70.0	105	103		1.89
	Thiobencarb	101	106	95.7		10.3
	Trans-Nonachlor	41.9	54.0	46.4		15.3
	Tri-o-cresyl Phosphate	59.1	59.1	62.3		5.31
	Triadimefon	111	111	97.3		13.5
	Triclosan Methyl	75.6	85.7	83.4		2.73
	Trifluralin	65.3	67.6	61.7		9.03
EPA 8276	Chlordane	76.2	65.7	67.3		2.45
	Toxaphene	67.7	60.2	62.3		3.41
EPA 8321B	2,4-D	81.5	111	117		5.23
	2,4,5-T	76.4	87.3	79.5		9.38
	3-Hydroxycarbofuran	100	91.5	113		21.2
	Acesulfame K	95.9	98.5	79.2		21.7
	Acetaminophen	99.2	120	118		2.13
	Acetamiprid	71.9	85.0	101		17.4
	Afidopyropen	53.5	76.2	84.1		9.86
	Aldicarb	106	56.4	77.2		31.1
	Aldicarb Sulfone	109	107	120		11.3
	Aldicarb Sulfoxide	99.0	49.5	65.8		28.2
	AMPA	103	55.5	61.8		7.39
	Bentazon	104	93.0	84.9		4.91
	Benzovindiflupyr	86.0	86.6	90.8		4.72
	Carbamazepine	94.2	91.7	95.6		3.77
	Carbaryl	75.1	67.8	70.9		4.45
	Carbofuran	80.5	72.4	78.3		7.86
	Clothianidin	92.6	124	118		4.94
	Dinotefuran	115	145	144		1.18
	Diuron	85.5	79.3	73.2		6.36
	Endothall	95.0	171	172		0.471
	Fenuron	112	105	104		1.25
	Fluridone	99.1	101	99.8		0.869
	Glufosinate	92.1	70.4	70.0		0.658
	Glyphosate	94.6				2.68
	Hydrocodone	102	123	124		0.769
	Ibuprofen	80.3	95.5	89.8		6.14
	Imazapyr	96.6	134	122		5.38
	Imidacloprid	101	156	148		5.15
	Linuron	81.1	85.0	78.1		8.47
	Mandestrobin	89.4	88.3	89.6		1.44
	MCPP	99.6	107	108		0.987
	Methiocarb	74.6	67.4	75.6		11.4
	Methomyl	97.0	85.1	104		20.0
	Naproxen	61.8	96.7	91.8		5.26
	Oxamyl	99.8	91.6	115		22.6
	Primidone	89.1	111	98.3		12.5
	Propoxur	71.9	64.8	65.0		0.297
	Pyraclostrobin	75.5	88.1	89.5		1.67

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Silvex	69.7	85.3	83.0		2.80
	Sucralose	92.5	80.1	84.6		0.696
	Thiamethoxam	99.0	145	141		3.37
	Tolfenpyrad	38.0	53.3	52.8		0.982
	Triclopyr	68.8	76.0	76.8		1.14
SM 2320 B-2011	Total Alkalinity	102			0.233	
	Total Alkalinity	102			0.794	
SM 2540 D-2015	TSS	91.9				
	TSS	93.6				
SM 4500-F- C-2011	Fluoride	98.3	97.7	97.2		0.482
	Fluoride	99.8	97.5	98.2		0.483
SM 5310 B-2011	Organic Carbon	97.4	96.8	95.1		1.06
	Organic Carbon	98.3	90.0	91.7		1.38

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2364814, 2364816
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2364829
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2364829
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2364815, 2364817
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2364815, 2364817
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2364815, 2364817
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2364815, 2364817
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2364828
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2364827
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2364828
EPA 8270E	PCBs in water matrices by GC/MS/MS	2364827
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2364827
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2364825
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2364826
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2364814, 2364816
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2364829
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2364814, 2364816
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2364814, 2364816
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2364815, 2364817

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	10/25/2022			10/25/2022 15:14	Anna M. Plaviak	2364814
	10/25/2022			10/25/2022 15:15	Anna M. Plaviak	2364816
EPA 200.7 Rev. 4.4	10/25/2022	10/27/2022 11:25	George D Taylor	11/01/2022 18:50	McKinley C Carter	2364829
EPA 200.8 Rev. 5.4	10/25/2022	10/27/2022 11:25	George D Taylor	10/31/2022 18:11	Emily M Philpot	2364829
	10/25/2022	11/02/2022 11:30	George D Taylor	11/03/2022 17:16	Emily M Philpot	2364829
EPA 350.1 Rev. 2.0	10/25/2022			10/31/2022 13:07	Ping Hua	2364815
	10/25/2022			11/04/2022 14:12	Ping Hua	2364817
EPA 351.2 Rev. 2.0	10/25/2022	10/31/2022 14:05	Samantha L Bates	11/02/2022 20:09	Samantha L Bates	2364817
	10/25/2022	10/31/2022 14:05	Samantha L Bates	11/04/2022 11:46	Alexandra J Mattheus	2364815
EPA 353.2 Rev. 2.0	10/25/2022			10/31/2022 09:48	Beverly Y. Sanders	2364817
	10/25/2022			11/01/2022 10:26	Beverly Y. Sanders	2364815
EPA 365.1 Rev. 2.0	10/25/2022	10/26/2022 13:59	Adam P Silver	10/28/2022 14:31	James L Waggeberby	2364817
	10/25/2022	11/02/2022 17:10	Adam P Silver	11/03/2022 10:44	James L Waggeberby	2364815
EPA 8270E	10/25/2022	10/28/2022 08:00	Fe-Val Siddell	10/31/2022 19:13	Arthur Maknenko	2364828
	10/25/2022	10/28/2022 08:00	Fe-Val Siddell	11/03/2022 21:30	Michael Poppell	2364828
	10/25/2022	10/28/2022 08:00	Fe-Val Siddell	11/04/2022 21:01	Michael Poppell	2364828
	10/25/2022	10/28/2022 08:00	Fe-Val Siddell	11/10/2022 01:26	Michael Poppell	2364828
	10/25/2022	10/28/2022 08:20	Rasheda Ghaffari	11/01/2022 21:20	Vandana T. Nagar	2364827
	10/25/2022	10/28/2022 08:20	Rasheda Ghaffari	11/01/2022 23:11	Julie Wi	2364827
	10/25/2022	11/09/2022 12:30	Fe-Val Siddell	11/11/2022 21:16	Michael Poppell	2364828
	10/25/2022	10/28/2022 08:20	Rasheda Ghaffari	11/03/2022 05:51	Lipi Saha	2364827
EPA 8276	10/25/2022	10/28/2022 08:20	Rasheda Ghaffari	11/03/2022 05:51	Lipi Saha	2364827
EPA 8321B	10/25/2022	10/25/2022 13:00	Umesh Chiluwal	10/25/2022 16:14	Umesh Chiluwal	2364826
	10/25/2022	10/25/2022 13:00	Umesh Chiluwal	10/26/2022 15:05	Umesh Chiluwal	2364826
	10/25/2022	10/28/2022 09:30	June Rhew	10/28/2022 19:22	Juyoung Kim	2364826
	10/25/2022	10/31/2022 09:30	June Rhew	10/31/2022 15:43	Juyoung Kim	2364825
SM 2320 B-2011	10/25/2022			10/27/2022 20:30	Dale L. Simmons	2364816
	10/25/2022			10/28/2022 03:23	Dale L. Simmons	2364814
SM 2340 B-2011	10/25/2022			11/01/2022 18:50	McKinley C Carter	2364829
SM 2540 D-2015	10/25/2022			10/26/2022 15:26	Yijie Li	2364814, 2364816
SM 4500-F- C-2011	10/25/2022			10/27/2022 20:30	Dale L. Simmons	2364816
	10/25/2022			10/27/2022 23:47	Dale L. Simmons	2364814
SM 5310 B-2011	10/25/2022			10/27/2022 21:12	Khloe J Berg	2364817
	10/25/2022			11/10/2022 00:07	Khloe J Berg	2364815