

Chemical Analysis Report

SW-DIST-2023-02-24-01

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

Event Description: **Run 1**
Request ID: **RQ-2023-02-20-34**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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

Date Certified: 22-MAR-2023 15:55



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: Homosassa River Down River/Stream of Boat Ramp **Collection Date/Time: 02/23/2023 11:05**

Field ID: G5SW0189

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390052	EPA 180.1 Rev. 2.0	Turbidity	3.3	A	NTU	P426374	
	SM 2320 B-2011	Total Alkalinity	131		mg CaCO3/L	P426643	
	SM 2540 D-2015	TSS	6	I	mg/L	P426806	
	SM 4500-F- C-2011	Fluoride	0.28		mg F/L	P426644	
2390053	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P426601	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.78		mg N/L	P426769	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.21		mg N/L	P427004	
	EPA 365.1 Rev. 2.0	Total-P	0.025		mg P/L	P427059	
	SM 5310 B-2011	Organic Carbon	2.7		mg C/L	P426789	
2390054	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P426367	
2390063	EPA 200.7 Rev. 4.4	Calcium	134		mg/L	P426568	
		Iron	180	I	ug/L	P426568	
		Magnesium	271		mg/L	P426568	
		Strontium	1.73E+03		ug/L	P426568	
		Tin	60	U	ug/L	P426568	
		Titanium	2.2	U	ug/L	P426568	
		Vanadium	6.0	U	ug/L	P426568	
		Zinc	15	U	ug/L	P426568	
	EPA 200.8 Rev. 5.4	Aluminum	84		ug/L	P426568	
		Antimony	0.20	U	ug/L	P426568	
		Arsenic	1.18		ug/L	P426568	
		Beryllium	0.040	U	ug/L	P426568	
		Cadmium	0.080	U	ug/L	P426568	
		Chromium	4.0	U	ug/L	P426568	
		Cobalt	0.092	I	ug/L	P426568	
		Copper	1.6	U	ug/L	P426568	
		Lead	0.80	U	ug/L	P426568	
		Manganese	5.2		ug/L	P426568	
		Molybdenum	2.7		ug/L	P426568	
		Nickel	2.0	U	ug/L	P426568	
		Selenium	0.80	U	ug/L	P426568	
		Silver	0.040	U	ug/L	P426568	
		Thallium	0.40	U	ug/L	P426568	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium and magnesium are unavailable because of high analyte concentration in the QC sample. Precision data and spike recoveries for tin are unavailable because sample matrix interference necessitated a high dilution.

Sample Location: Lake Rousseau @ Center

Collection Date/Time: 02/23/2023 12:45

Field ID: G4SW0118

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390049	DEP SOP: NU-094-1	Color (true)	75		PCU	P426370	
	EPA 180.1 Rev. 2.0	Turbidity	0.55	I	NTU	P426374	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P427039	
	SM 2320 B-2011	Total Alkalinity	88		mg CaCO3/L	P426755	
	SM 2540 C-2015	TDS	142		mg/L	P426961	
	SM 2540 D-2015	TSS	2	I	mg/L	P426805	
	SM 4500-F- C-2011	Fluoride	0.098	I	mg F/L	P426757	
2390050	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P426600	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59		mg N/L	P427254	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P426657	
	EPA 365.1 Rev. 2.0	Total-P	0.033		mg P/L	P426628	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P426789	
2390051	EPA 300.0 Rev. 2.1 dissolved	Sulfate	13		mg SO4/L	P426875	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P426366	
2390059	EPA 8321B	Aldicarb	0.020	U	ug/L	P426297	
		Aldicarb Sulfone	0.0020	U	ug/L	P426297	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P426297	MS
		Carbaryl	0.0020	U	ug/L	P426297	
		Carbofuran	0.0020	U	ug/L	P426297	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P426297	
		Methiocarb	0.0020	U	ug/L	P426297	
		Methomyl	0.0020	U	ug/L	P426297	
		Oxamyl	0.0020	U	ug/L	P426297	
		Propoxur	0.0020	U	ug/L	P426297	
		2,4-D	0.0020	U	ug/L	P426469	
		Acesulfame K	0.10	U	ug/L	P426216	
		2,4,5-T	0.0040	U	ug/L	P426469	
2390060		AMPA	0.10	U	ug/L	P426216	
		Acetaminophen	0.0080	U	ug/L	P426469	
		Acetamiprid	0.0020	U	ug/L	P426469	
		Endothall	0.25	U	ug/L	P426216	
		Glufosinate	0.10	U	ug/L	P426216	
		Glyphosate	0.10	U	ug/L	P426216	
		Afidopyropen	0.0020	UQ	ug/L	P426586	RPD
		Bentazon	8.0E-04	U	ug/L	P426469	
		Sucralose	0.12		ug/L	P426216	
		Benzovindiflupyr	0.0020	U	ug/L	P426469	
		Carbamazepine	8.0E-04	U	ug/L	P426469	
		Clothianidin	0.0020	U	ug/L	P426469	
		Dinotefuran	0.0020	U	ug/L	P426469	
		Diuron	0.0020	U	ug/L	P426469	
		Fenuron	0.032	U	ug/L	P426469	
		Fluridone	0.0030	I	ug/L	P426469	

Field ID: G4SW0118

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390060	EPA 8321B	Imazapyr	0.0067	I	ug/L	P426469	
		Hydrocodone	0.0020	U	ug/L	P426469	
		Ibuprofen	0.080	U	ug/L	P426469	
		Imidacloprid	0.0020	U	ug/L	P426469	
		Linuron	0.0040	U	ug/L	P426469	
		Mandestrobin	0.0020	U	ug/L	P426469	
		MCP	0.0020	U	ug/L	P426469	
		Naproxen	0.0080	U	ug/L	P426469	
		Primidone	0.0040	U	ug/L	P426469	
		Pyraclostrobin	0.0020	U	ug/L	P426469	
		Silvex	0.0040	U	ug/L	P426469	
		Thiamethoxam	0.0020	U	ug/L	P426469	
		Tolfenpyrad	0.0020	U	ug/L	P426469	
		Triclopyr	0.0040	U	ug/L	P426469	
2390061	EPA 8270E	Aldrin	0.70	U	ng/L	P426479	
		Alpha-BHC	0.11	U	ng/L	P426479	
		Alpha-Chlordane	0.22	U	ng/L	P426479	
		PCB-1016	2.2	U	ng/L	P426479	
		Beta-BHC	0.11	U	ng/L	P426479	
		PCB-1221	2.2	U	ng/L	P426479	
		Beta-Cyfluthrin	1.3	U	ng/L	P426479	
		PCB-1232	2.2	U	ng/L	P426479	
		Bifenthrin	0.54	U	ng/L	P426479	
		PCB-1242	2.2	U	ng/L	P426479	
		PCB-1248	2.2	U	ng/L	P426479	
		Chlorothalonil	3.9	U	ng/L	P426479	
		PCB-1254	2.2	U	ng/L	P426479	
		Cis-Nonachlor	0.22	U	ng/L	P426479	
		PCB-1260	2.2	U	ng/L	P426479	
		Cypermethrin	1.6	U	ng/L	P426479	
		Dacthal	0.16	U	ng/L	P426479	
		DDD-p,p'	0.27	U	ng/L	P426479	
		DDE-p,p'	0.22	U	ng/L	P426479	
		DDT-p,p'	0.27	U	ng/L	P426479	
		Delta-BHC	0.43	U	ng/L	P426479	
		Deltamethrin	1.3	U	ng/L	P426479	
		Dichlobenil	0.27	U	ng/L	P426479	
		Dicofol	1.3	U	ng/L	P426479	
		Dieldrin	0.43	U	ng/L	P426479	
		Endosulfan I	0.43	U	ng/L	P426479	
		Endosulfan II	0.43	U	ng/L	P426479	
		Endosulfan Sulfate	0.32	U	ng/L	P426479	
		Endrin	0.43	U	ng/L	P426479	
		Endrin Aldehyde	0.81	U	ng/L	P426479	
		Endrin Ketone	0.43	U	ng/L	P426479	

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Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390061	EPA 8270E	Esfenvalerate	0.81	U	ng/L	P426479	
		Ethalfuralin	0.16	U	ng/L	P426479	
		Fenpropathrin	0.27	U	ng/L	P426479	
		Gamma-BHC	0.13	U	ng/L	P426479	
		Gamma-Chlordane	0.22	U	ng/L	P426479	
		Heptachlor	0.22	U	ng/L	P426479	
		Heptachlor Epoxide	0.27	U	ng/L	P426479	
		Hexachlorobenzene**	1.1	U	ng/L	P426479	
		Kepone	5.4	UJ	ng/L	P426479	CCV
		Lambda-Cyhalothrin	0.81	U	ng/L	P426479	
		Methoprene	0.81	U	ng/L	P426479	
		Methoxychlor	0.32	U	ng/L	P426479	
		MGK-264	0.22	U	ng/L	P426479	
		Mirex	0.38	U	ng/L	P426479	
		Oxychlordane	0.32	U	ng/L	P426479	
		Permethrin	1.7	U	ng/L	P426479	
		Phenothrin	0.97	U	ng/L	P426479	
		Piperonyl Butoxide	0.16	U	ng/L	P426479	
		Prallethrin	2.2	U	ng/L	P426479	
		Tau-Fluvalinate	0.27	U	ng/L	P426479	
		Tetramethrin	0.81	UJ	ng/L	P426479	LCS
		Trans-Nonachlor	0.22	U	ng/L	P426479	
		Triclosan Methyl	0.16	U	ng/L	P426479	
		Trifluralin	0.22	U	ng/L	P426479	
	EPA 8276	Chlordane	2.2	U	ng/L	P426479	
	Toxaphene	16	U	ng/L	P426479		
2390062	EPA 8270E	Oxybenzone**	11	I	ng/L	P426399	
		Acetochlor	0.24	U	ng/L	P426399	
		Octinoxate**	19	U	ng/L	P426399	
		Alachlor	0.24	U	ng/L	P426399	
		Avobenzone**	97	U	ng/L	P426399	
		Ametryn	0.58	U	ng/L	P426399	
		Atrazine	1.2		ng/L	P426399	
		PBDE-47**	3.9	U	ng/L	P426399	
		Atrazine Desethyl	1.5	U	ng/L	P426399	
		PBDE-99**	4.9	U	ng/L	P426399	
		Azinphos Methyl	1.9	U	ng/L	P426399	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P426399	
		Azoxystrobin	0.49	U	ng/L	P426399	
		Bromacil	0.49	U	ng/L	P426399	
		2-Ethylhexyl	12	U	ng/L	P426399	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	U	ng/L	P426399	
		Dechlorane Plus**	29	U	ng/L	P426399	
		Caffeine**	22	I	ng/L	P426399	

Field ID: G4SW0118

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390062	EPA 8270E	Dechlorane 602**	4.9	U	ng/L	P426399	MS
		Carbophenothion	0.19	U	ng/L	P426399	
		Dechlorane 603**	3.9	U	ng/L	P426399	
		Carfentrazone Ethyl	0.097	U	ng/L	P426399	
		Hexabromobenzene**	5.8	U	ng/L	P426399	
		Chlorfenapyr	0.17	U	ng/L	P426399	
		PBB-153**	7.8	U	ng/L	P426399	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P426399	
		Pentabromotoluene**	2.9	U	ng/L	P426399	
		Chlorpyrifos Methyl	0.049	U	ng/L	P426399	
		Tris(2-chloroethyl) phosphate (TCEP)**	68	U	ng/L	P426399	
		Coumaphos	0.49	U	ng/L	P426399	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P426399	
		Cyanazine	3.2	U	ng/L	P426399	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	8.4		ng/L	P426399	
		Cyprodinil	0.097	U	ng/L	P426399	
		Tetradecachloro-m-terphenyl**	7.3	UJ	ng/L	P426399	LCS, MS
		Demeton	1.5	U	ng/L	P426399	
		Diazinon	0.12	U	ng/L	P426399	
		Difenoconazole	0.58	U	ng/L	P426399	
		Dimethenamid	0.097	U	ng/L	P426399	
		Dimethomorph	0.17	U	ng/L	P426399	
		Disulfoton	0.49	U	ng/L	P426399	
		Dithiopyr	0.61	U	ng/L	P426399	
		EPTC	1.2	U	ng/L	P426399	
		Ethion	0.15	U	ng/L	P426399	
		Ethoprop	0.097	U	ng/L	P426399	
		Etridiazole	0.15	U	ng/L	P426399	
		Fenamiphos	0.49	U	ng/L	P426399	
		Fenbuconazole	0.12	U	ng/L	P426399	
		Fipronil	0.24	U	ng/L	P426399	
		Fipronil Desulfinyl**	0.12	U	ng/L	P426399	
		Fipronil Sulfide	0.15	U	ng/L	P426399	
		Fipronil Sulfone	0.15	U	ng/L	P426399	
		Fluazifop-P-butyl	0.097	U	ng/L	P426399	
		Fludioxonil	0.12	U	ng/L	P426399	
		Flumioxazin	4.4	U	ng/L	P426399	
		Flutolanil	0.097	U	ng/L	P426399	
		Fluxapyroxad	0.097	U	ng/L	P426399	
		Fonofos	0.19	U	ng/L	P426399	
		Hexazinone	3.6		ng/L	P426399	
		Imazalil	0.73	U	ng/L	P426399	
		Iprodione	0.58	U	ng/L	P426399	MS
		Loratadine**	0.34	U	ng/L	P426399	

Field ID: G4SW0118

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390062	EPA 8270E	Malathion	0.34	U	ng/L	P426399	
		Metalaxyl	0.73	U	ng/L	P426399	
		Metolachlor	0.34	U	ng/L	P426399	
		Metribuzin	1.5	U	ng/L	P426399	
		Mevinphos	1.0	U	ng/L	P426399	
		Molinate	0.29	U	ng/L	P426399	
		Myclobutanil	0.24	U	ng/L	P426399	
		Naled	1.5	U	ng/L	P426399	
		Napropamide	0.39	U	ng/L	P426399	
		Norflurazon	0.49	U	ng/L	P426399	
		Oxadiazon	0.29	U	ng/L	P426399	
		Oxyfluorfen	0.15	U	ng/L	P426399	
		Parathion Ethyl	0.24	U	ng/L	P426399	
		Parathion Methyl	0.54	U	ng/L	P426399	
		Pendimethalin	0.97	U	ng/L	P426399	
		Phenytol**	3.4	U	ng/L	P426399	
		Phorate	0.51	U	ng/L	P426399	
		Prodiatamine	0.17	U	ng/L	P426399	
		Prometon	0.88	U	ng/L	P426399	
		Prometryn	0.19	U	ng/L	P426399	
		Pronamide	0.15	U	ng/L	P426399	
		Propanil	0.12	U	ng/L	P426399	
		Propargite	1.5	U	ng/L	P426399	
		Propiconazole	0.49	U	ng/L	P426399	
		Pyraflufen Ethyl	0.24	U	ng/L	P426399	
		Pyridaben	0.60	I	ng/L	P426399	
		Pyriproxyfen	0.12	UJ	ng/L	P426399	LCS, MS
		Simazine	0.49	U	ng/L	P426399	
		Stirophos	0.12	U	ng/L	P426399	
		Sulfentrazone	0.72	I	ng/L	P426399	
		Tebuconazole	0.49	U	ng/L	P426399	
		Terbufos	0.097	U	ng/L	P426399	
		Terbutylazine	0.41	U	ng/L	P426399	
		Thiobencarb	0.58	U	ng/L	P426399	
		Triadimefon	0.24	U	ng/L	P426399	

Ref. Method and Comment:

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

EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8321B: Q - Sample was prepared beyond holding time for afidopyropen due to technical issues.

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

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P426370

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426374

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426568

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	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: P426568

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427039

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P426875

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426600

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426601

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426769

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427254

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426657

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427004

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426628

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427059

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426366

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426367

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

Reference Method: EPA 8270E
Batch ID: P426399

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	35	I	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426399

Component	Result	Code	Units
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426399

Component	Result	Code	Units
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
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426399

Component	Result	Code	Units
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
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
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	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
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E

Batch ID: P426479

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426479

Component	Result	Code	Units
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426479

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426479

Component	Result	Code	Units
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P426479

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

Reference Method: EPA 8321B
Batch ID: P426216

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: P426297

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: EPA 8321B
Batch ID: P426469

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P426469

Component	Result	Code	Units
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P426586

Component	Result	Code	Units
Afidopyropen	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P426643

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

Reference Method: SM 2320 B-2011
Batch ID: P426755

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

Reference Method: SM 2540 C-2015
Batch ID: P426961

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426805

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426806

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P426806

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426644

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426757

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P426789

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P426370

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426374

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426568

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	109		P	85 - 115
Iron	108		P	85 - 115
Magnesium	107		P	85 - 115
Strontium	101		P	85 - 115
Tin	103		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	108		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426568

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	101		P	85 - 115
Beryllium	95.0		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	103		P	85 - 115
Cobalt	100		P	85 - 115
Copper	97.9		P	85 - 115
Lead	96.5		P	85 - 115
Manganese	99.4		P	85 - 115
Molybdenum	99.3		P	85 - 115
Nickel	99.7		P	85 - 115
Selenium	99.7		P	85 - 115
Silver	98.5		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P426875

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426600

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426601

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426769

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427254

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426657

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: P427004

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426628

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427059

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426366

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P426367

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.7		P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P426399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.0		P	42 - 162
Acetochlor	92.5		P	69 - 123
Alachlor	93.6		P	65 - 118
Ametryn	116		P	58 - 141
Atrazine	84.0		P	73 - 118
Atrazine Desethyl	62.6		P	32 - 125
Avobenzone	110		P	40 - 203
Azinphos Methyl	54.8		P	36 - 197
Azoxystrobin	93.0		P	58 - 226
Bromacil	103		P	48 - 120
Butylate	55.5		P	27 - 85.0
Caffeine	95.2		P	40 - 137
Carbophenothion	94.1		P	54 - 132
Carfentrazone Ethyl	116		P	60 - 142
Chlorfenapyr	87.6		P	53 - 117
Chlorpyrifos Ethyl	102		P	59 - 116
Chlorpyrifos Methyl	107		P	66 - 119
Coumaphos	54.0		P	11 - 234
Cyanazine	205		P	61 - 248
Cyprodinil	123		P	50 - 147
Dechlorane 602	61.9		P	50 - 150
Dechlorane 603	64.4		P	50 - 150
Dechlorane Plus	108		P	47 - 182
Demeton	84.2		P	30 - 138
Diazinon	101		P	67 - 126
Difenoconazole	59.5		P	38 - 205
Dimethenamid	85.0		P	57 - 111
Dimethomorph	45.2		P	16 - 212
Disulfoton	96.1		P	46 - 126
Dithiopyr	95.1		P	62 - 115
EPTC	56.4		P	28 - 80.0
Ethion	103		P	24 - 122
Ethoprop	97.5		P	62 - 113
Etridiazole	64.8		P	28 - 92.0
Fenamiphos	73.5		P	57 - 128
Fenbuconazole	115		P	52 - 155
Fipronil	101		P	63 - 130
Fipronil Desulfinyl	89.3		P	61 - 130
Fipronil Sulfide	96.1		P	56 - 117
Fipronil Sulfone	117		P	52 - 118
Fluazifop-P-butyl	106		P	61 - 128
Fludioxonil	104		P	59 - 129
Flumioxazin	64.2		P	30 - 250
Flutolanil	121		P	53 - 127
Fluxapyroxad	119		P	42 - 132
Fonofos	83.3		P	61 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Hexabromobenzene	110		P	50 - 150
Hexazinone	97.5		P	46 - 139
Imazalil	89.9		P	40 - 139
Iprodione	107		P	40 - 146
Loratadine	35.3		P	10 - 224
Malathion	116		P	61 - 135
Metaxyl	83.3		P	58 - 121
Metolachlor	82.8		P	64 - 118
Metribuzin	62.3		P	45 - 245
Mevinphos	81.2		P	49 - 118
Molinate	69.5		P	42 - 92.0
Myclobutanil	115		P	55 - 127
Naled	112		P	10 - 114
Napropamide	97.2		P	39 - 121
Norflurazon	105		P	55 - 129
Octinoxate	92.5		P	26 - 166
Oxadiazon	84.8		P	54 - 115
Oxybenzone	85.4		P	49 - 135
Oxyfluorfen	132		P	64 - 139
Parathion Ethyl	95.1		P	70 - 111
Parathion Methyl	112		P	76 - 136
PBB-153	94.2		P	50 - 150
PBDE-47	80.0		P	41 - 148
PBDE-99	82.9		P	38 - 147
Pendimethalin	83.4		P	52 - 118
Pentabromotoluene	98.5		P	50 - 150
Phenytoin	17.7		P	10 - 162
Phorate	107		P	40 - 122
Prodiamine	117		P	26 - 141
Prometon	109		P	54 - 122
Prometryn	120		P	61 - 128
Pronamide	93.7		P	72 - 121
Propanil	82.8		P	45 - 144
Propargite	25.3		P	10 - 199
Propiconazole	114		P	56 - 127
Pyraflufen Ethyl	97.4		P	56 - 140
Pyridaben	100		P	26 - 211
Pyriproxyfen	263		F	33 - 194
Simazine	87.4		P	67 - 121
Stirophos	118		P	20 - 142
Sulfentrazone	144		P	21 - 144
Tebuconazole	112		P	10 - 122
Terbufos	106		P	60 - 129
Terbutylazine	89.8		P	69 - 113
Tetradecachloro-m-terphenyl	57.5		F	70 - 200
Thiobencarb	93.4		P	51 - 120
Tri-o-cresyl Phosphate	94.6		P	49 - 150
Triadimefon	83.1		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	119		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	118		P	70 - 180

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P426479

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	62.7		P	10 - 92.0
Alpha-BHC	101		P	75 - 107
Alpha-Chlordane	66.4		P	50 - 108
Beta-BHC	107		P	36 - 138
Beta-Cyfluthrin	88.4		P	20 - 161
Bifenthrin	64.9		P	10 - 119
Chlorothalonil	112		P	26 - 186
Cis-Nonachlor	95.5		P	42 - 119
Cypermethrin	111		P	22 - 150
Dacthal	80.6		P	72 - 119
DDD-p,p'	101		P	45 - 107
DDE-p,p'	72.8		P	48 - 106
DDT-p,p'	67.1		P	48 - 110
Delta-BHC	132		P	54 - 140
Deltamethrin	60.8		P	22 - 189
Dichlobenil	71.5		P	36 - 117
Dicofol	53.8		P	46 - 155
Dieldrin	80.0		P	54 - 110
Endosulfan I	84.7		P	59 - 105
Endosulfan II	102		P	51 - 118
Endosulfan Sulfate	103		P	57 - 121
Endrin	78.2		P	10 - 120
Endrin Aldehyde	73.7		P	34 - 118
Endrin Ketone	140		P	69 - 177
Esfenvalerate	102		P	23 - 168
Ethalfuralin	66.2		P	49 - 99.0
Fenpropathrin	57.7		P	34 - 117
Gamma-BHC	93.5		P	72 - 117
Gamma-Chlordane	69.9		P	43 - 106
Heptachlor	84.2		P	41 - 98.0
Heptachlor Epoxide	83.0		P	57 - 106
Hexachlorobenzene	50.6		P	36 - 99.0
Kepone	129		P	16 - 215
Lambda-Cyhalothrin	65.3		P	21 - 177
Methoprene	63.3		P	10 - 119
Methoxychlor	68.0		P	60 - 112
MGK-264	120		P	26 - 122
Mirex	57.5		P	10 - 169
Oxychlordane	76.1		P	43 - 105
PCB-1016	80.5		P	48 - 112
PCB-1260	75.8		P	44 - 118
Permethrin	78.5		P	24 - 148
Phenothrin	75.1		P	10 - 106
Piperonyl Butoxide	133		P	10 - 139
Prallethrin	107		P	17 - 109
Tau-Fluvalinate	69.3		P	13 - 131
Tetramethrin	158		F	10 - 132
Trans-Nonachlor	88.5		P	44 - 106
Triclosan Methyl	80.3		P	59 - 109
Trifluralin	59.3		P	44 - 101

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P426479

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	97.0		P	53 - 126
Toxaphene	110		P	56 - 211

Reference Method: EPA 8321B
Batch ID: P426216

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	112		P	40 - 150
AMPA	102		P	40 - 150
Endothall	117		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	104		P	40 - 150
Sucralose	108		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.8		P	40 - 150
Aldicarb	59.9		P	30 - 150
Aldicarb Sulfone	88.6		P	40 - 150
Aldicarb Sulfoxide	94.3		P	40 - 150
Carbaryl	72.4		P	40 - 150
Carbofuran	72.0		P	40 - 150
Methiocarb	58.0		P	40 - 150
Methomyl	93.8		P	40 - 150
Oxamyl	95.5		P	40 - 150
Propoxur	64.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	122		P	40 - 150
2,4,5-T	91.9		P	40 - 150
Acetaminophen	113		P	30 - 150
Acetamiprid	88.1		P	40 - 150
Bentazon	122		P	30 - 150
Benzovindiflupyr	89.4		P	40 - 150
Carbamazepine	85.4		P	40 - 150
Clothianidin	87.3		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	81.4		P	40 - 150
Fenuron	91.3		P	40 - 150
Fluridone	77.6		P	40 - 150
Hydrocodone	86.6		P	40 - 150
Ibuprofen	81.5		P	40 - 150
Imazapyr	98.5		P	40 - 150
Imidacloprid	104		P	40 - 150
Linuron	74.9		P	40 - 150
Mandestrobin	85.5		P	40 - 150
MCPP	107		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P426469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naproxen	110		P	40 - 150
Primidone	91.8		P	40 - 150
Pyraclostrobin	81.1		P	40 - 150
Silvex	106		P	40 - 150
Thiamethoxam	97.0		P	40 - 150
Tolfenpyrad	58.8		P	30 - 150
Triclopyr	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Afidopyropen	60.2		P	30 - 150

Reference Method: SM 2320 B-2011
Batch ID: P426643

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.1		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P426755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.0		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P426961

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	91.4		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P426805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P426806

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P426644

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.4		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P426757

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

Reference Method: SM 5310 B-2011
Batch ID: P426789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P426568

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390063	Iron	105	104	P/P	80 - 120
2390063	Strontium	100	101	P/P	80 - 120
2390063	Titanium	103	103	P/P	80 - 120
2390063	Vanadium	102	102	P/P	80 - 120
2390063	Zinc	102	101	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P426568

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390063	Aluminum	100	101	P/P	70 - 130
2390063	Antimony	102	103	P/P	70 - 130
2390063	Arsenic	110	111	P/P	70 - 130
2390063	Beryllium	100	99.8	P/P	70 - 130
2390063	Cadmium	97.8	99.8	P/P	70 - 130
2390063	Chromium	108	110	P/P	70 - 130
2390063	Cobalt	109	110	P/P	70 - 130
2390063	Copper	103	103	P/P	70 - 130
2390063	Lead	100	101	P/P	70 - 130
2390063	Manganese	94.9	95.2	P/P	70 - 130
2390063	Molybdenum	109	111	P/P	70 - 130
2390063	Nickel	106	106	P/P	70 - 130
2390063	Selenium	102	105	P/P	70 - 130
2390063	Silver	90.7	91.5	P/P	70 - 130
2390063	Thallium	106	107	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P427039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391337	Chloride	97.0		P	90 - 110
2391346	Chloride	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1 dissolved

Batch ID: P426875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389014	Sulfate	99.5		P	90 - 110
2390051	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P426600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389985	Ammonia-N	98.8	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P426601

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389735	Ammonia-N	106	104	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390597	Kjeldahl Nitrogen	95.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390050	Kjeldahl Nitrogen	96.3	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426657

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390002	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390053	NO2NO3-N	99.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390384	Total-P	98.4	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427059

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392066	Total-P	91.9	91.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426366

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389967	O-Phosphate-P	95.4	95.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426367

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390054	O-Phosphate-P	98.7	98.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389401	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	87.3	86.6	P/P	26 - 165
2389401	Acetochlor	91.5	79.2	P/P	67 - 124
2389401	Alachlor	97.5	94.4	P/P	60 - 120
2389401	Ametryn	163	164	P/P	54 - 216

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389401	Atrazine Desethyl	67.5	66.4	P/P	15 - 122
2389401	Avobenzone	104	101	P/P	37 - 178
2389401	Azinphos Methyl	74.1	60.6	P/P	40 - 292
2389401	Azoxystrobin	91.1	80.8	P/P	35 - 220
2389401	Bromacil	108	93.1	P/P	45 - 127
2389401	Butylate	53.8	42.0	P/P	20 - 83.0
2389401	Caffeine	101	82.9	P/P	10 - 194
2389401	Carbophenothion	82.4	79.3	P/P	57 - 127
2389401	Carfentrazone Ethyl	112	91.0	P/P	51 - 141
2389401	Chlorfenapyr	84.3	73.2	P/P	46 - 111
2389401	Chlorpyrifos Ethyl	92.6	103	P/P	52 - 120
2389401	Chlorpyrifos Methyl	112	103	P/P	63 - 119
2389401	Coumaphos	76.5	58.4	P/P	10 - 228
2389401	Cyanazine	174	148	P/P	59 - 241
2389401	Cyprodinil	138	111	P/P	47 - 146
2389401	Dechlorane 602	43.0	47.2	F/F	50 - 150
2389401	Dechlorane 603	51.9	53.1	P/P	50 - 150
2389401	Dechlorane Plus	88.1	75.7	P/P	50 - 150
2389401	Demeton	90.1	79.7	P/P	40 - 136
2389401	Diazinon	110	97.4	P/P	69 - 132
2389401	Difenoconazole	68.4	63.1	P/P	57 - 258
2389401	Dimethenamid	88.9	67.7	P/P	54 - 110
2389401	Dimethomorph	55.2	50.3	P/P	28 - 210
2389401	Disulfoton	86.1	78.9	P/P	43 - 133
2389401	Dithiopyr	109	109	P/P	39 - 116
2389401	EPTC	54.3	50.9	P/P	20 - 78.0
2389401	Ethion	95.4	93.9	P/P	17 - 119
2389401	Ethoprop	109	119	P/P	66 - 120
2389401	Etridiazole	59.1	48.9	P/P	28 - 96.0
2389401	Fenamiphos	69.1	84.5	P/P	41 - 126
2389401	Fenbuconazole	143	129	P/P	42 - 169
2389401	Fipronil	101	99.9	P/P	61 - 132
2389401	Fipronil Desulfinyl	95.3	91.8	P/P	56 - 132
2389401	Fipronil Sulfide	102	96.2	P/P	48 - 119
2389401	Fipronil Sulfone	87.6	85.1	P/P	42 - 131
2389401	Fluazifop-P-butyl	110	93.5	P/P	53 - 131
2389401	Fludioxonil	106	81.6	P/P	56 - 127
2389401	Flumioxazin	70.9	61.7	P/P	19 - 300
2389401	Flutolanil	115	122	P/P	41 - 127
2389401	Fluxapyroxad	130	162	P/P	42 - 172
2389401	Fonofos	91.1	75.4	P/P	59 - 113
2389401	Hexabromobenzene	89.2	104	P/P	50 - 150
2389401	Hexazinone	95.3	90.9	P/P	66 - 122
2389401	Imazalil	88.7	80.4	P/P	21 - 283
2389401	Iprodione	142	171	P/F	43 - 150
2389401	Loratadine	55.8	49.6	P/P	23 - 201
2389401	Malathion	114	99.5	P/P	58 - 136
2389401	Metalaxyl	89.0	84.8	P/P	55 - 120
2389401	Mevinphos	85.5	77.5	P/P	50 - 126
2389401	Molinate	73.7	61.3	P/P	42 - 93.0
2389401	Myclobutanil	92.0	83.7	P/P	55 - 125
2389401	Naled	99.9	87.6	P/P	18 - 200

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389401	Napropamide	87.9	95.1	P/P	39 - 110
2389401	Norflurazon	96.6	95.8	P/P	48 - 128
2389401	Octinoxate	80.9	79.6	P/P	21 - 159
2389401	Oxadiazon	72.4	59.1	P/P	43 - 112
2389401	Oxybenzone	74.9	73.8	P/P	41 - 142
2389401	Oxyfluorfen	134	131	P/P	64 - 153
2389401	Parathion Ethyl	98.1	89.4	P/P	69 - 114
2389401	Parathion Methyl	123	105	P/P	79 - 139
2389401	PBB-153	58.3	64.5	P/P	50 - 150
2389401	PBDE-47	73.0	73.9	P/P	27 - 144
2389401	PBDE-99	75.0	73.4	P/P	18 - 150
2389401	Pendimethalin	106	95.1	P/P	50 - 139
2389401	Pentabromotoluene	85.2	92.4	P/P	50 - 150
2389401	Phenytoin	24.5	24.9	P/P	10 - 146
2389401	Phorate	89.3	89.8	P/P	54 - 161
2389401	Prodiamine	138	100	P/P	30 - 161
2389401	Prometon	123	112	P/P	45 - 134
2389401	Prometryn	130	121	P/P	45 - 137
2389401	Pronamide	101	87.1	P/P	65 - 133
2389401	Propanil	83.0	78.8	P/P	49 - 142
2389401	Propargite	30.5	29.9	P/P	10 - 203
2389401	Propiconazole	101	112	P/P	38 - 146
2389401	Pyraflufen Ethyl	86.6	91.1	P/P	34 - 153
2389401	Pyridaben	117	121	P/P	12 - 192
2389401	Pyriproxyfen	232	218	F/F	33 - 180
2389401	Simazine	79.2	82.6	P/P	51 - 157
2389401	Stiropfos	115	93.9	P/P	10 - 128
2389401	Sulfentrazone	165	176	P/P	53 - 186
2389401	Terbufos	112	97.5	P/P	65 - 139
2389401	Terbutylazine	89.6	87.2	P/P	66 - 117
2389401	Tetradecachloro-m-terphenyl	56.9	49.0	F/F	70 - 200
2389401	Thiobencarb	97.8	95.8	P/P	51 - 119
2389401	Tri-o-cresyl Phosphate	84.3	82.9	P/P	31 - 144
2389401	Triadimefon	74.9	77.5	P/P	48 - 119
2389401	Tris(1-chloro-2-propyl) phosphate (TCPP)	103	108	P/P	50 - 150
2389401	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	104	100	P/P	50 - 150
2389401	Tris(2-chloroethyl) phosphate (TCEP)	112	103	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P426479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390045	PCB-1016	69.4	66.5	P/P	46 - 111
2390045	PCB-1260	66.3	59.2	P/P	45 - 114
2390375	Aldrin	47.4	48.8	P/P	20 - 82.0
2390375	Alpha-BHC	96.7	81.9	P/P	71 - 109
2390375	Alpha-Chlordane	67.0	58.3	P/P	42 - 106
2390375	Beta-BHC	88.5	85.9	P/P	69 - 180
2390375	Beta-Cyfluthrin	69.3	65.8	P/P	18 - 175
2390375	Bifenthrin	91.7	53.6	P/P	21 - 128
2390375	Chlorothalonil	70.4	68.5	P/P	10 - 300
2390375	Cis-Nonachlor	72.9	95.2	P/P	34 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390375	Cypermethrin	66.6	62.7	P/P	22 - 158
2390375	Dacthal	80.5	74.3	P/P	54 - 116
2390375	DDD-p,p'	82.8	106	P/P	34 - 107
2390375	DDE-p,p'	70.0	59.6	P/P	33 - 110
2390375	DDT-p,p'	57.4	55.3	P/P	50 - 122
2390375	Delta-BHC	78.4	81.1	P/P	77 - 193
2390375	Deltamethrin	56.8	56.5	P/P	10 - 195
2390375	Dichlobenil	60.3	49.2	P/P	25 - 113
2390375	Dicofol	55.2	45.9	P/P	38 - 247
2390375	Dieldrin	76.8	64.5	P/P	45 - 118
2390375	Endosulfan I	84.2	76.2	P/P	51 - 106
2390375	Endosulfan II	104	94.4	P/P	37 - 122
2390375	Endosulfan Sulfate	106	80.5	P/P	43 - 132
2390375	Endrin	66.7	59.2	P/P	29 - 101
2390375	Endrin Aldehyde	83.9	65.5	P/P	19 - 110
2390375	Endrin Ketone	122	106	P/P	60 - 140
2390375	Esfenvalerate	109	83.3	P/P	26 - 199
2390375	Ethalfuralin	61.2	54.6	P/P	45 - 99.0
2390375	Fenpropathrin	51.7	39.4	P/P	35 - 120
2390375	Gamma-BHC	85.6	82.2	P/P	63 - 128
2390375	Gamma-Chlordane	59.1	53.1	P/P	40 - 104
2390375	Heptachlor	71.8	60.3	P/P	36 - 97.0
2390375	Heptachlor Epoxide	62.9	58.8	P/P	49 - 184
2390375	Hexachlorobenzene	46.2	40.8	P/P	39 - 96.0
2390375	Kepone	114	140	P/P	10 - 217
2390375	Lambda-Cyhalothrin	60.8	47.9	P/P	21 - 193
2390375	Methoprene	65.3	48.2	P/P	20 - 106
2390375	Methoxychlor	62.2	69.4	P/P	53 - 118
2390375	MGK-264	79.3	75.8	P/P	40 - 118
2390375	Mirex	48.6	40.4	P/P	26 - 92.0
2390375	Oxychlordane	59.0	56.8	P/P	44 - 99.0
2390375	Permethrin	49.6	50.0	P/P	33 - 182
2390375	Phenothrin	91.0	54.6	P/P	10 - 129
2390375	Piperonyl Butoxide	126	142	P/P	10 - 211
2390375	Prallethrin	70.0	62.2	P/P	24 - 113
2390375	Tau-Fluvalinate	90.4	65.9	P/P	14 - 149
2390375	Tetramethrin	76.7	79.3	P/P	17 - 151
2390375	Trans-Nonachlor	82.3	69.8	P/P	42 - 102
2390375	Triclosan Methyl	78.6	74.9	P/P	48 - 108
2390375	Trifluralin	57.7	47.9	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P426479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390045	Chlordane	83.7	76.7	P/P	53 - 126
2390045	Toxaphene	97.8	92.4	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P426216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P426216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389131	Acesulfame K	122	115	P/P	40 - 150
2389131	AMPA	73.1	67.5	P/P	40 - 150
2389131	Endothall	114	106	P/P	40 - 150
2389131	Glufosinate	76.6	79.4	P/P	40 - 150
2389131	Glyphosate	97.1	101	P/P	40 - 150
2389131	Sucralose	98.2	105	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390059	3-Hydroxycarbofuran	59.8	45.8	P/P	40 - 150
2390059	Aldicarb	47.4	58.0	P/P	30 - 150
2390059	Aldicarb Sulfone	78.9	82.0	P/P	40 - 150
2390059	Aldicarb Sulfoxide	30.2	30.9	F/F	40 - 150
2390059	Carbaryl	48.4	55.4	P/P	40 - 150
2390059	Carbofuran	47.8	48.6	P/P	40 - 150
2390059	Methiocarb	53.7	55.6	P/P	40 - 150
2390059	Methomyl	63.7	65.6	P/P	40 - 150
2390059	Oxamyl	75.2	72.0	P/P	40 - 150
2390059	Propoxur	44.3	45.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390647	2,4-D	97.0	110	P/P	40 - 150
2390647	2,4,5-T	98.0	98.3	P/P	40 - 150
2390647	Acetaminophen	114	118	P/P	30 - 150
2390647	Acetamiprid	53.6	59.2	P/P	40 - 150
2390647	Bentazon	78.7	78.8	P/P	30 - 150
2390647	Benzovindiflupyr	75.4	76.0	P/P	40 - 150
2390647	Carbamazepine	58.2	60.3	P/P	40 - 150
2390647	Clothianidin	77.9	81.3	P/P	40 - 150
2390647	Dinotefuran	95.9	96.1	P/P	40 - 150
2390647	Diuron	49.0	48.0	P/P	40 - 150
2390647	Fenuron	56.5	58.0	P/P	40 - 150
2390647	Fluridone	55.8	51.4	P/P	40 - 150
2390647	Hydrocodone	73.8	74.6	P/P	40 - 150
2390647	Ibuprofen	72.2	88.4	P/P	40 - 150
2390647	Imazapyr	98.9	106	P/P	40 - 150
2390647	Imidacloprid	101	106	P/P	40 - 150
2390647	Linuron	62.1	61.3	P/P	40 - 150
2390647	Mandestrobin	68.3	77.1	P/P	40 - 150
2390647	MCCP	94.6	103	P/P	40 - 150
2390647	Naproxen	61.4	69.5	P/P	40 - 150
2390647	Primidone	78.9	79.3	P/P	40 - 150
2390647	Pyraclostrobin	70.8	71.2	P/P	40 - 150
2390647	Silvex	103	109	P/P	40 - 150
2390647	Thiamethoxam	84.1	81.4	P/P	40 - 150
2390647	Tolfenpyrad	52.6	51.0	P/P	30 - 150
2390647	Triclopyr	104	104	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P426586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391073	Afidopyropen	73.1	39.7	P/P	30 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P426644

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389384	Fluoride	97.6	97.6	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P426757

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389982	Fluoride	100	99.0	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389879	Organic Carbon	97.2	98.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P426370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390080	Color (true)	0.854	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390052	Turbidity	7.54	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426568

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390063	Calcium	0.691	Spike	P	0 - 20
2390063	Iron	0.744	Spike	P	0 - 20
2390063	Magnesium	0.266	Spike	P	0 - 20
2390063	Strontium	0.376	Spike	P	0 - 20
2390063	Titanium	0.0916	Spike	P	0 - 20
2390063	Vanadium	0.0639	Spike	P	0 - 20
2390063	Zinc	0.687	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426568

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390063	Aluminum	1.30	Spike	P	0 - 20
2390063	Antimony	1.00	Spike	P	0 - 20
2390063	Arsenic	1.24	Spike	P	0 - 20
2390063	Beryllium	0.424	Spike	P	0 - 20
2390063	Cadmium	2.06	Spike	P	0 - 20
2390063	Chromium	2.06	Spike	P	0 - 20
2390063	Cobalt	0.809	Spike	P	0 - 20
2390063	Copper	0.132	Spike	P	0 - 20
2390063	Lead	0.426	Spike	P	0 - 20
2390063	Manganese	0.270	Spike	P	0 - 20
2390063	Molybdenum	1.21	Spike	P	0 - 20
2390063	Nickel	0.474	Spike	P	0 - 20
2390063	Selenium	2.87	Spike	P	0 - 20
2390063	Silver	0.874	Spike	P	0 - 20
2390063	Thallium	0.742	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391337	Chloride	0.715	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P426875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389014	Sulfate	2.75	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389985	Ammonia-N	1.32	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426601

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389735	Ammonia-N	1.95	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390050	Kjeldahl Nitrogen	4.80	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390002	NO2NO3-N	0.473	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390053	NO2NO3-N	0.241	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390384	Total-P	0.851	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392066	Total-P	0.996	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426366

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389967	O-Phosphate-P	0.420	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426367

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390054	O-Phosphate-P	0.610	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P426399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389401	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	0.773	Spike	P	0 - 37
2389401	Acetochlor	14.4	Spike	P	0 - 28
2389401	Alachlor	3.13	Spike	P	0 - 30
2389401	Ametryn	0.535	Spike	P	0 - 32
2389401	Atrazine	6.43	Spike	P	0 - 41
2389401	Atrazine Desethyl	1.66	Spike	P	0 - 36
2389401	Avobenzone	3.06	Spike	P	0 - 36
2389401	Azinphos Methyl	20.0	Spike	P	0 - 75
2389401	Azoxystrobin	9.71	Spike	P	0 - 39
2389401	Bromacil	12.4	Spike	P	0 - 33
2389401	Butylate	24.7	Spike	P	0 - 44
2389401	Caffeine	18.3	Spike	P	0 - 74
2389401	Carbophenothion	3.79	Spike	P	0 - 25
2389401	Carfentrazone Ethyl	21.0	Spike	P	0 - 27
2389401	Chlorfenapyr	14.0	Spike	P	0 - 24
2389401	Chlorpyrifos Ethyl	10.5	Spike	P	0 - 26
2389401	Chlorpyrifos Methyl	8.95	Spike	P	0 - 26
2389401	Coumaphos	26.8	Spike	P	0 - 28
2389401	Cyanazine	16.3	Spike	P	0 - 48
2389401	Cyprodinil	21.5	Spike	P	0 - 29
2389401	Dechlorane 602	9.33	Spike	P	0 - 30
2389401	Dechlorane 603	2.23	Spike	P	0 - 30
2389401	Dechlorane Plus	15.1	Spike	P	0 - 30
2389401	Demeton	12.3	Spike	P	0 - 33
2389401	Diazinon	12.6	Spike	P	0 - 29
2389401	Difenoconazole	8.04	Spike	P	0 - 34
2389401	Dimethenamid	27.1	Spike	P	0 - 39
2389401	Dimethomorph	9.16	Spike	P	0 - 51
2389401	Disulfoton	8.72	Spike	P	0 - 30
2389401	Dithiopyr	0.211	Spike	P	0 - 26
2389401	EPTC	6.44	Spike	P	0 - 43
2389401	Ethion	1.59	Spike	P	0 - 79
2389401	Ethoprop	9.16	Spike	P	0 - 29
2389401	Etridiazole	18.8	Spike	P	0 - 33
2389401	Fenamiphos	20.0	Spike	P	0 - 40
2389401	Fenbuconazole	10.3	Spike	P	0 - 74
2389401	Fipronil	0.944	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389401	Fipronil Desulfinyl	3.42	Spike	P	0 - 32
2389401	Fipronil Sulfide	5.14	Spike	P	0 - 30
2389401	Fipronil Sulfone	2.16	Spike	P	0 - 33
2389401	Fluazifop-P-butyl	16.2	Spike	P	0 - 38
2389401	Fludioxonil	25.8	Spike	P	0 - 29
2389401	Flumioxazin	13.8	Spike	P	0 - 51
2389401	Flutolanil	5.69	Spike	P	0 - 25
2389401	Fluxapyroxad	21.3	Spike	P	0 - 45
2389401	Fonofos	18.8	Spike	P	0 - 27
2389401	Hexabromobenzene	15.0	Spike	P	0 - 30
2389401	Hexazinone	3.72	Spike	P	0 - 30
2389401	Imazalil	9.84	Spike	P	0 - 100
2389401	Iprodione	15.7	Spike	P	0 - 33
2389401	Loratadine	11.7	Spike	P	0 - 56
2389401	Malathion	13.7	Spike	P	0 - 37
2389401	Metalaxyl	4.82	Spike	P	0 - 40
2389401	Metolachlor	4.70	Spike	P	0 - 29
2389401	Metribuzin	24.2	Spike	P	0 - 45
2389401	Mevinphos	9.77	Spike	P	0 - 29
2389401	Molinate	18.5	Spike	P	0 - 33
2389401	Myclobutanil	8.72	Spike	P	0 - 26
2389401	Naled	13.1	Spike	P	0 - 37
2389401	Napropamide	7.93	Spike	P	0 - 44
2389401	Norflurazon	0.808	Spike	P	0 - 30
2389401	Octinoxate	1.67	Spike	P	0 - 45
2389401	Oxadiazon	13.6	Spike	P	0 - 28
2389401	Oxybenzone	1.53	Spike	P	0 - 46
2389401	Oxyfluorfen	2.74	Spike	P	0 - 28
2389401	Parathion Ethyl	9.23	Spike	P	0 - 31
2389401	Parathion Methyl	15.9	Spike	P	0 - 29
2389401	PBB-153	10.2	Spike	P	0 - 30
2389401	PBDE-47	1.25	Spike	P	0 - 36
2389401	PBDE-99	2.27	Spike	P	0 - 40
2389401	Pendimethalin	10.5	Spike	P	0 - 33
2389401	Pentabromotoluene	8.06	Spike	P	0 - 30
2389401	Phenytoin	1.39	Spike	P	0 - 100
2389401	Phorate	0.505	Spike	P	0 - 36
2389401	Prodiamine	29.3	Spike	P	0 - 71
2389401	Prometon	9.28	Spike	P	0 - 36
2389401	Prometryn	7.70	Spike	P	0 - 28
2389401	Pronamide	15.2	Spike	P	0 - 24
2389401	Propanil	5.24	Spike	P	0 - 28
2389401	Propargite	2.11	Spike	P	0 - 43
2389401	Propiconazole	7.01	Spike	P	0 - 33
2389401	Pyraflufen Ethyl	5.09	Spike	P	0 - 29
2389401	Pyridaben	3.31	Spike	P	0 - 30
2389401	Pyriproxyfen	6.14	Spike	P	0 - 79
2389401	Simazine	2.15	Spike	P	0 - 29
2389401	Stirophos	19.9	Spike	P	0 - 61
2389401	Sulfentrazone	5.23	Spike	P	0 - 33
2389401	Tebuconazole	10.0	Spike	P	0 - 69

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389401	Terbufos	14.0	Spike	P	0 - 29
2389401	Terbutylazine	2.66	Spike	P	0 - 32
2389401	Tetradecachloro-m-terphenyl	14.9	Spike	P	0 - 30
2389401	Thiobencarb	1.98	Spike	P	0 - 26
2389401	Tri-o-cresyl Phosphate	1.71	Spike	P	0 - 33
2389401	Triadimefon	3.37	Spike	P	0 - 28
2389401	Tris(1-chloro-2-propyl) phosphate (TCPP)	2.69	Spike	P	0 - 30
2389401	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.52	Spike	P	0 - 30
2389401	Tris(2-chloroethyl) phosphate (TCEP)	8.93	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P426479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390045	PCB-1016	4.34	Spike	P	0 - 32
2390045	PCB-1260	11.2	Spike	P	0 - 31
2390375	Aldrin	2.76	Spike	P	0 - 41
2390375	Alpha-BHC	16.6	Spike	P	0 - 25
2390375	Alpha-Chlordane	13.8	Spike	P	0 - 33
2390375	Beta-BHC	2.88	Spike	P	0 - 36
2390375	Beta-Cyfluthrin	5.27	Spike	P	0 - 42
2390375	Bifenthrin	52.4	Spike	P	0 - 53
2390375	Chlorothalonil	2.76	Spike	P	0 - 71
2390375	Cis-Nonachlor	26.6	Spike	P	0 - 29
2390375	Cypermethrin	6.02	Spike	P	0 - 40
2390375	Dacthal	7.98	Spike	P	0 - 26
2390375	DDD-p,p'	24.9	Spike	P	0 - 39
2390375	DDE-p,p'	16.0	Spike	P	0 - 33
2390375	DDT-p,p'	3.65	Spike	P	0 - 40
2390375	Delta-BHC	3.40	Spike	P	0 - 37
2390375	Deltamethrin	0.483	Spike	P	0 - 100
2390375	Dichlobenil	20.2	Spike	P	0 - 40
2390375	Dicofol	18.4	Spike	P	0 - 31
2390375	Dieldrin	17.5	Spike	P	0 - 27
2390375	Endosulfan I	9.99	Spike	P	0 - 23
2390375	Endosulfan II	9.52	Spike	P	0 - 28
2390375	Endosulfan Sulfate	27.5	Spike	P	0 - 38
2390375	Endrin	11.9	Spike	P	0 - 63
2390375	Endrin Aldehyde	24.6	Spike	P	0 - 60
2390375	Endrin Ketone	14.2	Spike	P	0 - 37
2390375	Esfenvalerate	26.4	Spike	P	0 - 52
2390375	Ethalfuralin	11.4	Spike	P	0 - 23
2390375	Fenpropathrin	27.0	Spike	P	0 - 32
2390375	Gamma-BHC	4.10	Spike	P	0 - 17
2390375	Gamma-Chlordane	10.7	Spike	P	0 - 40
2390375	Heptachlor	17.5	Spike	P	0 - 29
2390375	Heptachlor Epoxide	6.75	Spike	P	0 - 25
2390375	Hexachlorobenzene	12.3	Spike	P	0 - 36
2390375	Kepone	20.0	Spike	P	0 - 93
2390375	Lambda-Cyhalothrin	23.8	Spike	P	0 - 55

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390375	Methoprene	30.0	Spike	P	0 - 53
2390375	Methoxychlor	10.9	Spike	P	0 - 29
2390375	MGK-264	4.52	Spike	P	0 - 35
2390375	Mirex	18.4	Spike	P	0 - 46
2390375	Oxychlordane	3.86	Spike	P	0 - 29
2390375	Permethrin	0.902	Spike	P	0 - 44
2390375	Phenothrin	50.0	Spike	P	0 - 56
2390375	Piperonyl Butoxide	11.7	Spike	P	0 - 100
2390375	Prallethrin	11.7	Spike	P	0 - 42
2390375	Tau-Fluvalinate	31.4	Spike	P	0 - 54
2390375	Tetramethrin	3.41	Spike	P	0 - 51
2390375	Trans-Nonachlor	16.4	Spike	P	0 - 37
2390375	Triclosan Methyl	4.76	Spike	P	0 - 31
2390375	Trifluralin	18.6	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P426479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390045	Chlordane	8.69	Spike	P	0 - 25
2390045	Toxaphene	5.66	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P426216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389131	Acesulfame K	6.12	Spike	P	0 - 30
2389131	AMPA	7.93	Spike	P	0 - 30
2389131	Endothall	7.84	Spike	P	0 - 30
2389131	Glufosinate	3.56	Spike	P	0 - 30
2389131	Glyphosate	3.84	Spike	P	0 - 30
2389131	Sucralose	6.93	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P426297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390059	3-Hydroxycarbofuran	26.5	Spike	P	0 - 30
2390059	Aldicarb	20.1	Spike	P	0 - 30
2390059	Aldicarb Sulfone	3.87	Spike	P	0 - 30
2390059	Aldicarb Sulfoxide	2.36	Spike	P	0 - 30
2390059	Carbaryl	13.5	Spike	P	0 - 30
2390059	Carbofuran	1.68	Spike	P	0 - 30
2390059	Methiocarb	3.56	Spike	P	0 - 30
2390059	Methomyl	2.96	Spike	P	0 - 30
2390059	Oxamyl	4.42	Spike	P	0 - 30
2390059	Propoxur	3.24	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P426469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390647	2,4-D	12.5	Spike	P	0 - 30
2390647	2,4,5-T	0.264	Spike	P	0 - 30
2390647	Acetaminophen	3.77	Spike	P	0 - 30
2390647	Acetamiprid	9.88	Spike	P	0 - 30
2390647	Bentazon	0.234	Spike	P	0 - 30
2390647	Benzovindiflupyr	0.827	Spike	P	0 - 30
2390647	Carbamazepine	3.60	Spike	P	0 - 30
2390647	Clothianidin	4.19	Spike	P	0 - 30
2390647	Dinotefuran	0.234	Spike	P	0 - 30
2390647	Diuron	2.07	Spike	P	0 - 30
2390647	Fenuron	2.70	Spike	P	0 - 30
2390647	Fluridone	8.10	Spike	P	0 - 30
2390647	Hydrocodone	1.12	Spike	P	0 - 30
2390647	Ibuprofen	20.2	Spike	P	0 - 30
2390647	Imazapyr	6.28	Spike	P	0 - 30
2390647	Imidacloprid	5.33	Spike	P	0 - 30
2390647	Linuron	1.28	Spike	P	0 - 30
2390647	Mandestrobin	12.1	Spike	P	0 - 30
2390647	MCPP	8.21	Spike	P	0 - 30
2390647	Naproxen	12.4	Spike	P	0 - 30
2390647	Primidone	0.572	Spike	P	0 - 30
2390647	Pyraclostrobin	0.485	Spike	P	0 - 30
2390647	Silvex	4.93	Spike	P	0 - 30
2390647	Thiamethoxam	3.22	Spike	P	0 - 30
2390647	Tolfenpyrad	3.12	Spike	P	0 - 30
2390647	Triclopyr	0.455	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P426586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391073	Afidopyropen	59.2	Spike	F	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P426643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389384	Total Alkalinity	0.633	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P426755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389982	Total Alkalinity	2.71	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P426961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389918	TDS	2.65	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P426644

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389384	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P426757

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389982	Fluoride	1.02	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P426789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389879	Organic Carbon	0.973	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2390059
Field Sample ID: G4SW0118

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	45.9	P	30 - 160

Lab Sample ID: 2390060
Field Sample ID: G4SW0118

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	132	P	30 - 160
EPA 8321B	2,4-D-d3	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	119	P	30 - 160
EPA 8321B	Acetaminophen-d4	123	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.3	P	30 - 160
EPA 8321B	Diuron-d6	53.8	P	30 - 160
EPA 8321B	Diuron-d6	57.7	P	30 - 160
EPA 8321B	Endothall-d6	121	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	91.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	81.6	P	30 - 160
EPA 8321B	Primidone-d5	97.6	P	30 - 160
EPA 8321B	Primidone-d5	88.2	P	30 - 160
EPA 8321B	Sucralose-d6	115	P	30 - 160

Lab Sample ID: 2390061
Field Sample ID: G4SW0118

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	83.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	77.6	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	56.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	44.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	59.0	P	30 - 101
EPA 8276	PCNB	86.1	P	48 - 121

Lab Sample ID: 2390062
Field Sample ID: G4SW0118

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	81.3	P	20 - 200
EPA 8270E	Simazine-d10	72.2	P	62 - 142
EPA 8270E	Terbufos-d10	73.3	P	58 - 132
EPA 8270E	Terphenyl-d14	100	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A117657

Included Lab Sample IDs: 2390051, 2390054

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.3	98.0	P/P	90 - 110
O-Phosphate-P	97.3	97.4	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A117658

Included Lab Sample IDs: 2390049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117659

Included Lab Sample IDs: 2390049, 2390052

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

Reference Method: EPA 8321B

Run ID: A117674

Included Lab Sample IDs: 2390060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	106	97.9	P/P	60 - 160
Endothall	108	105	P/P	60 - 160
Glufosinate	93.9	93.6	P/P	60 - 160
Glyphosate	103	107	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A117677

Included Lab Sample IDs: 2390060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	119	117	P/P	60 - 160
Sucralose	108	108	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A117705

Included Lab Sample IDs: 2390059

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	87.4	102	P/P	60 - 150
Aldicarb	105	90.3	P/P	60 - 150
Aldicarb Sulfone	94.3	90.9	P/P	50 - 150
Aldicarb Sulfoxide	101	103	P/P	50 - 150
Carbaryl	108	106	P/P	60 - 150
Carbofuran	105	102	P/P	50 - 150
Methiocarb	105	93.7	P/P	50 - 150
Methomyl	100	102	P/P	50 - 150
Oxamyl	103	94.3	P/P	50 - 150
Propoxur	106	108	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117760

Included Lab Sample IDs: 2390050, 2390053

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

Reference Method: SM 2320 B-2011

Run ID: A117776

Included Lab Sample IDs: 2390052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.1	98.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117776

Included Lab Sample IDs: 2390052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117781

Included Lab Sample IDs: 2390050

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A117811

Included Lab Sample IDs: 2390063

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.1	97.7	P/P	90 - 110
Antimony	97.1	98.1	P/P	90 - 110
Arsenic	98.9	99.5	P/P	90 - 110
Beryllium	99.9	100	P/P	90 - 110
Cadmium	96.4	96.4	P/P	90 - 110
Cobalt	98.3	98.0	P/P	90 - 110
Copper	97.6	97.3	P/P	90 - 110
Lead	92.1	93.0	P/P	90 - 110
Manganese	96.4	96.4	P/P	90 - 110
Molybdenum	96.1	96.1	P/P	90 - 110
Nickel	98.2	97.9	P/P	90 - 110
Selenium	98.9	97.9	P/P	90 - 110
Silver	95.4	95.5	P/P	90 - 110
Thallium	98.3	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117829

Included Lab Sample IDs: 2390050

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A117831
 Included Lab Sample IDs: 2390061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	88.4		P	80 - 120
Alpha-BHC	92.0		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	112		P	80 - 120
Beta-Cyfluthrin	119		P	80 - 120
Bifenthrin	95.9		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	82.7		P	80 - 120
Cypermethrin	112		P	80 - 120
Dacthal	116		P	80 - 120
DDD-p,p'	82.0		P	80 - 120
DDE-p,p'	91.7		P	80 - 120
DDT-p,p'	98.4		P	80 - 120
Delta-BHC	104		P	80 - 120
Deltamethrin	94.8		P	80 - 120
Dichlobenil	113		P	80 - 120
Dicofol	90.0		P	80 - 120
Dieldrin	92.4		P	80 - 120
Endosulfan I	109		P	80 - 120
Endosulfan II	111		P	80 - 120
Endosulfan Sulfate	111		P	80 - 120
Endrin	96.2		P	80 - 120
Endrin Aldehyde	95.0		P	80 - 120
Endrin Ketone	92.8		P	80 - 120
Esfenvalerate	106		P	80 - 120
Ethalfuralin	88.2		P	80 - 120
Fenpropathrin	99.6		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	108		P	80 - 120
Heptachlor	111		P	80 - 120
Heptachlor Epoxide	108		P	80 - 120
Hexachlorobenzene	113		P	80 - 120
Kepone	59.0*		F	80 - 120
Lambda-Cyhalothrin	112		P	80 - 120
Methoprene	105		P	80 - 120
Methoxychlor	88.9		P	80 - 120
MGK-264	118		P	80 - 120
Mirex	107		P	80 - 120
Oxychlordane	111		P	80 - 120
Permethrin	93.8		P	80 - 120
Phenothrin	110		P	80 - 120
Piperonyl Butoxide	83.1		P	80 - 120
Prallethrin	107		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	111		P	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	106		P	80 - 120
Trifluralin	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117833

Included Lab Sample IDs: 2390049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.4	95.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1 dissolved

Run ID: A117833

Included Lab Sample IDs: 2390051

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	102	105	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A117836

Included Lab Sample IDs: 2390049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.0	96.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117836

Included Lab Sample IDs: 2390049

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

Reference Method: EPA 8270E

Run ID: A117837

Included Lab Sample IDs: 2390062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	108		P	80 - 120
Ametryn	119		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	96.2		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	99.2		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	94.2		P	80 - 120
Caffeine	104		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	114		P	80 - 120
Chlorpyrifos Ethyl	110		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	112		P	80 - 120
Cyanazine	119		P	80 - 120
Cyprodinil	119		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	97.2		P	80 - 120
Difenoconazole	119		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	109		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
 Run ID: A117837
 Included Lab Sample IDs: 2390062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	103		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	106		P	80 - 120
Ethion	100		P	80 - 120
Ethoprop	96.7		P	80 - 120
Etridiazole	92.0		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	95.1		P	80 - 120
Fipronil	100		P	80 - 120
Fipronil Desulfinyl	96.7		P	80 - 120
Fipronil Sulfide	105		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	107		P	80 - 120
Flumioxazin	106		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	91.5		P	80 - 120
Fonofos	99.3		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	106		P	80 - 120
Iprodione	91.4		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	111		P	80 - 120
Metolachlor	96.6		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	94.9		P	80 - 120
Molinate	98.3		P	80 - 120
Myclobutanil	112		P	80 - 120
Naled	93.1		P	80 - 120
Napropamide	104		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	110		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	104		P	80 - 120
Parathion Methyl	113		P	80 - 120
Pendimethalin	119		P	80 - 120
Phenytol	117		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	118		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	114		P	80 - 120
Pronamide	99.4		P	80 - 120
Propanil	97.2		P	80 - 120
Propargite	112		P	80 - 120
Propiconazole	107		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	94.6		P	80 - 120
Pyriproxyfen	105		P	80 - 120
Simazine	99.4		P	80 - 120
Stirophos	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117837
Included Lab Sample IDs: 2390062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfentrazone	95.5		P	80 - 120
Tebuconazole	81.0		P	80 - 120
Terbufos	99.0		P	80 - 120
Terbutylazine	101		P	80 - 120
Thiobencarb	99.3		P	80 - 120
Triadimefon	90.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A117841
Included Lab Sample IDs: 2390063

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

Reference Method: SM 5310 B-2011
Run ID: A117844
Included Lab Sample IDs: 2390050, 2390053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	94.6	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A117849
Included Lab Sample IDs: 2390060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.1	112	P/P	50 - 150
2,4,5-T	99.8	86.2	P/P	50 - 150
Acetaminophen	126	116	P/P	60 - 160
Acetamiprid	99.0	114	P/P	50 - 150
Bentazon	113	119	P/P	50 - 160
Benzovindiflupyr	104	109	P/P	50 - 150
Carbamazepine	103	110	P/P	60 - 150
Clothianidin	100	103	P/P	60 - 150
Dinotefuran	114	120	P/P	50 - 150
Diuron	114	111	P/P	60 - 160
Fenuron	104	104	P/P	60 - 150
Fluridone	114	111	P/P	60 - 160
Hydrocodone	101	114	P/P	60 - 150
Ibuprofen	60.3	93.8	P/P	50 - 160
Imazapyr	94.8	102	P/P	50 - 150
Imidacloprid	94.5	105	P/P	60 - 150
Linuron	108	103	P/P	60 - 150
Mandestrobin	91.5	99.7	P/P	50 - 150
MCPP	103	96.7	P/P	50 - 150
Naproxen	127	107	P/P	50 - 160
Primidone	86.5	108	P/P	60 - 150
Pyraclostrobin	105	101	P/P	60 - 150
Silvex	88.5	87.4	P/P	50 - 150
Thiamethoxam	105	109	P/P	50 - 150
Tolfenpyrad	99.1	93.5	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117849
Included Lab Sample IDs: 2390060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Triclopyr	90.7	90.9	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A117850
Included Lab Sample IDs: 2390060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	112	96.3	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A117857
Included Lab Sample IDs: 2390062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	100		P	80 - 120
Avobenzene	102		P	80 - 120
Dechlorane 602	94.8		P	80 - 120
Dechlorane 603	96.7		P	80 - 120
Dechlorane Plus	98.0		P	80 - 120
Hexabromobenzene	98.3		P	80 - 120
Octinoxate	102		P	80 - 120
Oxybenzone	103		P	80 - 120
PBB-153	98.7		P	80 - 120
PBDE-47	99.6		P	80 - 120
PBDE-99	100		P	80 - 120
Pentabromotoluene	96.3		P	80 - 120
Tetradecachloro-m-terphenyl	95.2		P	80 - 120
Tri-o-cresyl Phosphate	102		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	101		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	104		P	80 - 120

Reference Method: EPA 8276
Run ID: A117871
Included Lab Sample IDs: 2390061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.7		P	80 - 120
Toxaphene	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117889
Included Lab Sample IDs: 2390061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	100		P	80 - 120
PCB-1260	98.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117924

Included Lab Sample IDs: 2390053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117939

Included Lab Sample IDs: 2390053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.8	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A117956

Included Lab Sample IDs: 2390063

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	101	P/P	95 - 105
Iron	104	101	P/P	95 - 105
Magnesium	103	101	P/P	95 - 105
Strontium	97.3	102	P/P	95 - 105
Tin	104	100	P/P	90 - 110
Titanium	98.4	103	P/P	95 - 105
Vanadium	97.8	104	P/P	95 - 105
Zinc	98.2	110	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118052

Included Lab Sample IDs: 2390053

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118092

Included Lab Sample IDs: 2390050

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.7	103	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	99.2				0.854	
EPA 180.1 Rev. 2.0	Turbidity	101				7.54	
EPA 200.7 Rev. 4.4	Calcium	109					0.691
	Iron	108	105	104			0.744
	Magnesium	107					0.266
	Strontium	101	100	101			0.376
	Tin	103					
	Titanium	103	103	103			0.0916
	Vanadium	103	102	102			0.0639
	Zinc	108	102	101			0.687
EPA 200.8 Rev. 5.4	Aluminum	103	100	101			1.30
	Antimony	101	102	103			1.00
	Arsenic	101	110	111			1.24
	Beryllium	95.0	100	99.8			0.424
	Cadmium	100	97.8	99.8			2.06
	Chromium	103	108	110			2.06
	Cobalt	100	109	110			0.809
	Copper	97.9	103	103			0.132
	Lead	96.5	100	101			0.426
	Manganese	99.4	94.9	95.2			0.270
	Molybdenum	99.3	109	111			1.21
	Nickel	99.7	106	106			0.474
	Selenium	99.7	102	105			2.87
	Silver	98.5	90.7	91.5			0.874
	Thallium	101	106	107			0.742
EPA 300.0 Rev. 2.1	Chloride	97.2	97.0	95.8		0.715	
EPA 300.0 Rev. 2.1 dissolved	Sulfate	107	99.5	105		2.75	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	98.8	100			1.32
	Ammonia-N	99.8	106	104			1.95
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.5	95.0				
	Kjeldahl Nitrogen	102	96.3	103			4.80
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101	101			0.473
	NO2NO3-N	102	99.2				0.241
EPA 365.1 Rev. 2.0	Total-P	99.5	98.4	99.3			0.851
	Total-P	101	91.9	91.0			0.996
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.4	95.4	95.0			0.420
	O-Phosphate-P	98.7	98.7	98.1			0.610
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.0	86.6	87.3			0.773
	Acetochlor	92.5	91.5	79.2			14.4
	Alachlor	93.6	97.5	94.4			3.13
	Aldrin	62.7	47.4	48.8			2.76
	Alpha-BHC	101	96.7	81.9			16.6
	Alpha-Chlordane	66.4	67.0	58.3			13.8
	Ametryn	116	163	164			0.535
	Atrazine	84.0					6.43
	Atrazine Desethyl	62.6	67.5	66.4			1.66
	Avobenzone	110	104	101			3.06
	Azinphos Methyl	54.8	74.1	60.6			20.0
	Azoxystrobin	93.0	91.1	80.8			9.71
	Beta-BHC	107	88.5	85.9			2.88
	Beta-Cyfluthrin	88.4	69.3	65.8			5.27
	Bifenthrin	64.9	91.7	53.6			52.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Bromacil	103	108	93.1			12.4
	Butylate	55.5	53.8	42.0			24.7
	Caffeine	95.2	101	82.9			18.3
	Carbophenothion	94.1	82.4	79.3			3.79
	Carfentrazone Ethyl	116	112	91.0			21.0
	Chlorfenapyr	87.6	84.3	73.2			14.0
	Chlorothalonil	112	70.4	68.5			2.76
	Chlorpyrifos Ethyl	102	92.6	103			10.5
	Chlorpyrifos Methyl	107	112	103			8.95
	Cis-Nonachlor	95.5	72.9	95.2			26.6
	Coumaphos	54.0	76.5	58.4			26.8
	Cyanazine	205	174	148			16.3
	Cypermethrin	111	66.6	62.7			6.02
	Cyprodinil	123	138	111			21.5
	Dacthal	80.6	80.5	74.3			7.98
	DDD-p,p'	101	82.8	106			24.9
	DDE-p,p'	72.8	70.0	59.6			16.0
	DDT-p,p'	67.1	57.4	55.3			3.65
	Dechlorane 602	61.9	47.2	43.0			9.33
	Dechlorane 603	64.4	53.1	51.9			2.23
	Dechlorane Plus	108	75.7	88.1			15.1
	Delta-BHC	132	78.4	81.1			3.40
	Deltamethrin	60.8	56.8	56.5			0.483
	Demeton	84.2	90.1	79.7			12.3
	Diazinon	101	110	97.4			12.6
	Dichlobenil	71.5	60.3	49.2			20.2
	Dicofol	53.8	55.2	45.9			18.4
	Dieldrin	80.0	76.8	64.5			17.5
	Difenoconazole	59.5	68.4	63.1			8.04
	Dimethenamid	85.0	88.9	67.7			27.1
	Dimethomorph	45.2	55.2	50.3			9.16
	Disulfoton	96.1	86.1	78.9			8.72
	Dithiopyr	95.1	109	109			0.211
	Endosulfan I	84.7	84.2	76.2			9.99
	Endosulfan II	102	104	94.4			9.52
	Endosulfan Sulfate	103	106	80.5			27.5
	Endrin	78.2	66.7	59.2			11.9
	Endrin Aldehyde	73.7	83.9	65.5			24.6
	Endrin Ketone	140	122	106			14.2
	EPTC	56.4	54.3	50.9			6.44
	Esfenvalerate	102	109	83.3			26.4
	Ethalfuralin	66.2	61.2	54.6			11.4
	Ethion	103	95.4	93.9			1.59
	Ethoprop	97.5	109	119			9.16
	Etridiazole	64.8	59.1	48.9			18.8
	Fenamiphos	73.5	69.1	84.5			20.0
	Fenbuconazole	115	143	129			10.3
	Fenpropathrin	57.7	51.7	39.4			27.0
	Fipronil	101	101	99.9			0.944
	Fipronil Desulfanyl	89.3	95.3	91.8			3.42
	Fipronil Sulfide	96.1	102	96.2			5.14
	Fipronil Sulfone	117	87.6	85.1			2.16
	Fluazifop-P-butyl	106	110	93.5			16.2
	Fludioxonil	104	106	81.6			25.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Flumioxazin	64.2	70.9	61.7		13.8
	Flutolanil	121	115	122		5.69
	Fluxapyroxad	119	130	162		21.3
	Fonofos	83.3	91.1	75.4		18.8
	Gamma-BHC	93.5	85.6	82.2		4.10
	Gamma-Chlordane	69.9	59.1	53.1		10.7
	Heptachlor	84.2	71.8	60.3		17.5
	Heptachlor Epoxide	83.0	62.9	58.8		6.75
	Hexabromobenzene	110	104	89.2		15.0
	Hexachlorobenzene	50.6	46.2	40.8		12.3
	Hexazinone	97.5	95.3	90.9		3.72
	Imazalil	89.9	88.7	80.4		9.84
	Iprodione	107	142	171		15.7
	Kepone	129	114	140		20.0
	Lambda-Cyhalothrin	65.3	60.8	47.9		23.8
	Loratadine	35.3	55.8	49.6		11.7
	Malathion	116	114	99.5		13.7
	Metalaxyl	83.3	89.0	84.8		4.82
	Methoprene	63.3	65.3	48.2		30.0
	Methoxychlor	68.0	62.2	69.4		10.9
	Metolachlor	82.8				4.70
	Metribuzin	62.3				24.2
	Mevinphos	81.2	85.5	77.5		9.77
	MGK-264	120	79.3	75.8		4.52
	Mirex	57.5	48.6	40.4		18.4
	Molinate	69.5	73.7	61.3		18.5
	Myclobutanil	115	92.0	83.7		8.72
	Naled	112	99.9	87.6		13.1
	Napropamide	97.2	87.9	95.1		7.93
	Norflurazon	105	96.6	95.8		0.808
	Octinoxate	92.5	80.9	79.6		1.67
	Oxadiazon	84.8	72.4	59.1		13.6
	Oxybenzone	85.4	74.9	73.8		1.53
	Oxychlordane	76.1	59.0	56.8		3.86
	Oxyfluorfen	132	134	131		2.74
	Parathion Ethyl	95.1	98.1	89.4		9.23
	Parathion Methyl	112	123	105		15.9
	PBB-153	94.2	64.5	58.3		10.2
	PBDE-47	80.0	73.0	73.9		1.25
	PBDE-99	82.9	75.0	73.4		2.27
	PCB-1016	80.5	69.4	66.5		4.34
	PCB-1260	75.8	66.3	59.2		11.2
	Pendimethalin	83.4	106	95.1		10.5
	Pentabromotoluene	98.5	92.4	85.2		8.06
	Permethrin	78.5	49.6	50.0		0.902
	Phenothrin	75.1	91.0	54.6		50.0
	Phenytoin	17.7	24.5	24.9		1.39
	Phorate	107	89.3	89.8		0.505
	Piperonyl Butoxide	133	126	142		11.7
	Prallethrin	107	70.0	62.2		11.7
	Prodiamine	117	138	100		29.3
	Prometon	109	112	123		9.28
	Prometryn	120	130	121		7.70
	Pronamide	93.7	101	87.1		15.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Propanil	82.8	83.0	78.8			5.24
	Propargite	25.3	30.5	29.9			2.11
	Propiconazole	114	101	112			7.01
	Pyraflufen Ethyl	97.4	86.6	91.1			5.09
	Pyridaben	100	117	121			3.31
	Pyriproxyfen	263	232	218			6.14
	Simazine	87.4	79.2	82.6			2.15
	Stirophos	118	115	93.9			19.9
	Sulfentrazone	144	165	176			5.23
	Tau-Fluvalinate	69.3	90.4	65.9			31.4
	Tebuconazole	112					10.0
	Terbufos	106	112	97.5			14.0
	Terbuthylazine	89.8	89.6	87.2			2.66
	Tetradecachloro-m-terphenyl	57.5	49.0	56.9			14.9
	Tetramethrin	158	76.7	79.3			3.41
	Thiobencarb	93.4	97.8	95.8			1.98
	Trans-Nonachlor	88.5	82.3	69.8			16.4
	Tri-o-cresyl Phosphate	94.6	82.9	84.3			1.71
	Triadimefon	83.1	74.9	77.5			3.37
	Triclosan Methyl	80.3	78.6	74.9			4.76
	Trifluralin	59.3	57.7	47.9			18.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	119	108	103			2.69
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	100	104			3.52
	Tris(2-chloroethyl) phosphate (TCEP)	118	103	112			8.93
EPA 8276	Chlordane	97.0	83.7	76.7			8.69
	Toxaphene	110	97.8	92.4			5.66
EPA 8321B	2,4-D	122	97.0	110			12.5
	2,4,5-T	91.9	98.0	98.3			0.264
	3-Hydroxycarbofuran	79.8	59.8	45.8			26.5
	Acesulfame K	112	122	115			6.12
	Acetaminophen	113	114	118			3.77
	Acetamiprid	88.1	53.6	59.2			9.88
	Afidopyropen	60.2	73.1	39.7			59.2
	Aldicarb	59.9	47.4	58.0			20.1
	Aldicarb Sulfone	88.6	78.9	82.0			3.87
	Aldicarb Sulfoxide	94.3	30.2	30.9			2.36
	AMPA	102	73.1	67.5			7.93
	Bentazon	122	78.7	78.8			0.234
	Benzovindiflupyr	89.4	75.4	76.0			0.827
	Carbamazepine	85.4	58.2	60.3			3.60
	Carbaryl	72.4	48.4	55.4			13.5
	Carbofuran	72.0	47.8	48.6			1.68
	Clothianidin	87.3	77.9	81.3			4.19
	Dinotefuran	108	95.9	96.1			0.234
	Diuron	81.4	49.0	48.0			2.07
	Endothall	117	114	106			7.84
	Fenuron	91.3	56.5	58.0			2.70
	Fluridone	77.6	55.8	51.4			8.10
	Glufosinate	105	76.6	79.4			3.56
	Glyphosate	104	97.1	101			3.84
	Hydrocodone	86.6	73.8	74.6			1.12

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Ibuprofen	81.5	72.2	88.4		
	Imazapyr	98.5	98.9	106		
	Imidacloprid	104	101	106		
	Linuron	74.9	62.1	61.3		
	Mandestrobin	85.5	68.3	77.1		
	MCCP	107	94.6	103		
	Methiocarb	58.0	53.7	55.6		
	Methomyl	93.8	63.7	65.6		
	Naproxen	110	61.4	69.5		
	Oxamyl	95.5	75.2	72.0		
	Primidone	91.8	78.9	79.3		
	Propoxur	64.3	44.3	45.8		
	Pyraclostrobin	81.1	70.8	71.2		
	Silvex	106	103	109		
	Sucralose	108	98.2	105		
	Thiamethoxam	97.0	84.1	81.4		
	Tolfenpyrad	58.8	52.6	51.0		
	Triclopyr	106	104	104		
SM 2320 B-2011	Total Alkalinity	97.1				0.633
	Total Alkalinity	98.0				2.71
SM 2540 C-2015	TDS	91.4				2.65
SM 2540 D-2015	TSS	102				
	TSS	93.8				
SM 4500-F- C-2011	Fluoride	99.4	97.6	97.6		
	Fluoride	100	100	99.0		
SM 5310 B-2011	Organic Carbon	98.2	97.2	98.2		

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2390049
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2390049, 2390052
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2390063
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2390063
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2390049
EPA 300.0 Rev. 2.1 dissolved	Sulfate, dissolved, in filtered, aqueous matrices	2390051
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2390050, 2390053
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2390050, 2390053
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2390050, 2390053
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2390050, 2390053
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2390051, 2390054
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2390062
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2390061
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2390062
EPA 8270E	PCBs in water matrices by GC/MS/MS	2390061
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2390061
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2390059
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2390060
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2390049, 2390052

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2390049
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2390049, 2390052
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2390049, 2390052
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2390050, 2390053

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/24/2023			02/24/2023 15:35	Chandler E Cox	2390049
EPA 180.1 Rev. 2.0	02/24/2023			02/24/2023 14:45	Khloe J Berg	2390049
	02/24/2023			02/24/2023 14:46	Khloe J Berg	2390052
EPA 200.7 Rev. 4.4	02/24/2023	03/02/2023 10:15	Vijayalakshmi Reddy	03/10/2023 15:58	McKinley C Carter	2390063
	02/24/2023	03/02/2023 10:15	Vijayalakshmi Reddy	03/10/2023 16:57	McKinley C Carter	2390063
EPA 200.8 Rev. 5.4	02/24/2023	03/02/2023 10:15	Vijayalakshmi Reddy	03/03/2023 22:09	Emily M Philpot	2390063
	02/24/2023	03/02/2023 10:15	Vijayalakshmi Reddy	03/06/2023 20:43	Emily M Philpot	2390063
EPA 300.0 Rev. 2.1	02/24/2023			03/10/2023 14:31	Judith K. Clark	2390049
EPA 300.0 Rev. 2.1 dissolved	02/24/2023			03/08/2023 11:25	Judith K. Clark	2390051
EPA 350.1 Rev. 2.0	02/24/2023			03/02/2023 10:58	Khloe J Berg	2390050
	02/24/2023			03/02/2023 11:26	Khloe J Berg	2390053
EPA 351.2 Rev. 2.0	02/24/2023	03/07/2023 13:40	Simonne.V. Calhoun	03/10/2023 15:35	Samantha L Bates	2390053
	02/24/2023	03/20/2023 12:15	Simonne.V. Calhoun	03/21/2023 10:05	Samantha L Bates	2390050
EPA 353.2 Rev. 2.0	02/24/2023			03/02/2023 10:13	Beverly Y. Sanders	2390050
	02/24/2023			03/10/2023 09:17	Beverly Y. Sanders	2390053
EPA 365.1 Rev. 2.0	02/24/2023	03/02/2023 15:47	Adam P Silver	03/06/2023 15:41	James L Waggeberby	2390050
	02/24/2023	03/13/2023 16:23	Adam P Silver	03/17/2023 09:45	James L Waggeberby	2390053
EPA 365.1 Rev. 2.0 dissolved	02/24/2023			02/24/2023 15:03	Elise M. Gillis	2390051
	02/24/2023			02/24/2023 15:15	Elise M. Gillis	2390054
EPA 8270E	02/24/2023	02/28/2023 08:00	Fe-Val Siddell	03/02/2023 22:18	Michael Poppell	2390062
	02/24/2023	02/28/2023 08:00	Fe-Val Siddell	03/07/2023 19:59	Arthur Maknenko	2390062
	02/24/2023	03/02/2023 08:00	Fe-Val Siddell	03/04/2023 00:54	Julie Wi	2390061
	02/24/2023	03/02/2023 08:00	Fe-Val Siddell	03/08/2023 23:47	Julie Wi	2390061
EPA 8276	02/24/2023	03/02/2023 08:00	Fe-Val Siddell	03/07/2023 05:19	Lipi Saha	2390061
EPA 8321B	02/24/2023	02/24/2023 12:00	Manjita Shrestha	02/24/2023 14:55	Manjita Shrestha	2390060
	02/24/2023	02/24/2023 12:00	Manjita Shrestha	02/24/2023 21:22	Manjita Shrestha	2390060
	02/24/2023	02/27/2023 09:00	Hoor Shaik	02/27/2023 18:09	Juyoung Kim	2390059
	02/24/2023	03/01/2023 09:00	Hoor Shaik	03/01/2023 19:58	Juyoung Kim	2390060
	02/24/2023	03/03/2023 09:00	Hoor Shaik	03/04/2023 02:08	Juyoung Kim	2390060
SM 2320 B-2011	02/24/2023			03/02/2023 19:58	Chandler E Cox	2390052
	02/24/2023			03/07/2023 04:24	Chandler E Cox	2390049
SM 2540 C-2015	02/24/2023			03/01/2023 16:46	Yijie Li	2390049
SM 2540 D-2015	02/24/2023			03/01/2023 16:46	Yijie Li	2390049, 2390052
SM 4500-F- C-2011	02/24/2023			03/02/2023 17:04	Chandler E Cox	2390052
	02/24/2023			03/07/2023 04:24	Chandler E Cox	2390049
SM 5310 B-2011	02/24/2023			03/07/2023 04:28	Elise M. Gillis	2390050
	02/24/2023			03/07/2023 04:42	Elise M. Gillis	2390053