

Chemical Analysis Report

NW-DIST-2023-09-08-01

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

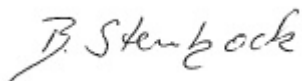
Event Description: **Escambia Bay Run**
Request ID: **RQ-2023-09-04-54**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 05-OCT-2023 12:26



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: ESCAMBIA BAY SECT D BUOY N12

Collection Date/Time: 09/07/2023 10:05

Field ID: G4NW0029

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2435551	EPA 200.7 Rev. 4.4	Calcium	184		mg/L	P435143	
		Iron	140	I	ug/L	P435143	
		Magnesium	560		mg/L	P435143	
		Potassium	166		mg/L	P435143	
		Sodium	4.44E+03		mg/L	P435143	
		Strontium	3.14E+03		ug/L	P435143	
		Tin	60	U	ug/L	P435143	
		Titanium	2.2	U	ug/L	P435143	
		Vanadium	6.0	U	ug/L	P435143	
		Zinc	15	U	ug/L	P435143	
	EPA 200.8 Rev. 5.4	Aluminum	75	I	ug/L	P435143	
		Antimony	0.20	U	ug/L	P435143	
		Arsenic	1.35		ug/L	P435143	
		Barium	34.0		ug/L	P435143	
		Beryllium	0.040	U	ug/L	P435143	
		Boron	1.82E+03		ug/L	P435143	
		Cadmium	0.080	U	ug/L	P435143	
		Chromium	4.0	U	ug/L	P435143	
		Cobalt	0.25	I	ug/L	P435143	
		Copper	1.6	U	ug/L	P435143	
		Lead	0.80	U	ug/L	P435143	
		Manganese	54.8		ug/L	P435143	
		Molybdenum	5.0		ug/L	P435143	
		Nickel	2.0	U	ug/L	P435143	
		Selenium	0.80	U	ug/L	P435143	
		Silver	0.040	U	ug/L	P435143	
		Thallium	0.40	U	ug/L	P435143	
	SM 2340 B-2011	Hardness	2.76E+03		mg/L	P435143	

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium and sodium are unavailable because of high analyte concentration in the QC sample.

Sample Location: ESCAMBIA BAY SEC B BACKGR STA

Collection Date/Time: 09/07/2023 09:50

Field ID: G4NW0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2435550	EPA 200.7 Rev. 4.4	Calcium	148		mg/L	P435143	
		Iron	240	I	ug/L	P435143	
		Magnesium	438		mg/L	P435143	
		Potassium	130		mg/L	P435143	
		Sodium	3.51E+03		mg/L	P435143	
		Strontium	2.43E+03		ug/L	P435143	
		Tin	9.0	U	ug/L	P435143	
		Titanium	2.2	U	ug/L	P435143	
		Vanadium	6.0	U	ug/L	P435143	
		Zinc	15	U	ug/L	P435143	
	EPA 200.8 Rev. 5.4	Aluminum	87		ug/L	P435143	
		Antimony	0.20	U	ug/L	P435143	
		Arsenic	1.13		ug/L	P435143	
		Barium	37.5		ug/L	P435143	
		Beryllium	0.040	U	ug/L	P435143	
		Boron	1.35E+03		ug/L	P435143	
		Cadmium	0.080	U	ug/L	P435143	
		Chromium	4.0	U	ug/L	P435143	
		Cobalt	0.49		ug/L	P435143	
		Copper	1.6	U	ug/L	P435143	
		Lead	0.80	U	ug/L	P435143	
		Manganese	89.9		ug/L	P435143	
		Molybdenum	3.9		ug/L	P435143	
		Nickel	2.0	U	ug/L	P435143	
		Selenium	0.80	U	ug/L	P435143	
		Silver	0.040	U	ug/L	P435143	
		Thallium	0.40	U	ug/L	P435143	
	SM 2340 B-2011	Hardness	2.17E+03		mg/L	P435143	

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium and sodium are unavailable because of high analyte concentration in the QC sample.

Sample Location: TROUT BAYOU

Collection Date/Time: 09/07/2023 10:30

Field ID: G4NW0443

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2435517	DEP SOP: NU-094-1	Color (true)	7.4		PCU	P434749	
	EPA 180.1 Rev. 2.0	Turbidity	3.5	A	NTU	P434751	
	EPA 300.0 Rev. 2.1	Chloride	1.2E+04		mg Cl/L	P435109	
		Sulfate	1.6E+03		mg SO4/L	P434988	
	SM 2320 B-2011	Total Alkalinity	78		mg CaCO3/L	P435062	
	SM 2540 C-2015	TDS	2.01E+04		mg/L	P435297	
	SM 2540 D-2015	TSS	7	IA	mg/L	P435206	
	SM 4500-F- C-2011	Fluoride	0.75		mg F/L	P435066	
2435518	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P434992	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40		mg N/L	P435055	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P435339	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P434897	
	SM 5310 B-2011	Organic Carbon	3.1	I	mg C/L	P435196	
2435538	EPA 8321B	Aldicarb	0.020	U	ug/L	P434687	
		Aldicarb Sulfone	0.0020	U	ug/L	P434687	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P434687	MS
		Carbaryl	0.0020	U	ug/L	P434687	
		Carbofuran	0.0020	U	ug/L	P434687	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P434687	
		Methiocarb	0.0020	U	ug/L	P434687	
		Methomyl	0.0020	U	ug/L	P434687	
		Oxamyl	0.0020	U	ug/L	P434687	
		Propoxur	0.0020	U	ug/L	P434687	
2435539		Acesulfame K	0.10	U	ug/L	P434720	
		2,4-D	0.0020	U	ug/L	P434735	
		AMPA	10	U	ug/L	P434720	
		2,4,5-T	0.0040	U	ug/L	P434735	
		Acetaminophen	0.0080	U	ug/L	P434735	
		Endothall	0.25	U	ug/L	P434720	
		Acetamiprid	0.0020	U	ug/L	P434735	
		Glufosinate	10	U	ug/L	P434720	
		Glyphosate	10	U	ug/L	P434720	
		Afidopyropen	0.0020	U	ug/L	P434735	
		Sucralose	0.12		ug/L	P434720	
		Bentazon	8.0E-04	U	ug/L	P434735	
		Benzovindiflupyr	0.0020	U	ug/L	P434735	
		Carbamazepine	8.0E-04	U	ug/L	P434735	
		Clothianidin	0.0020	U	ug/L	P434735	
		Dinotefuran	0.0020	U	ug/L	P434735	
		Diuron	0.0020	U	ug/L	P434735	
		Fenuron	0.032	U	ug/L	P434735	
		Fluridone	8.0E-04	U	ug/L	P434735	
		Imazapyr	0.0040	U	ug/L	P434735	
		Hydrocodone	0.0020	U	ug/L	P434735	

Field ID: G4NW0443

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2435539	EPA 8321B	Ibuprofen	0.080	U	ug/L	P434735	
		Imidacloprid	0.0020	U	ug/L	P434735	
		Linuron	0.0040	U	ug/L	P434735	
		Mandestrobin	0.0020	U	ug/L	P434735	
		MCP	0.0020	U	ug/L	P434735	
		Naproxen	0.0080	U	ug/L	P434735	
		Primidone	0.0040	U	ug/L	P434735	
		Pyraclostrobin	0.0020	U	ug/L	P434735	
		Silvex	0.0040	U	ug/L	P434735	
		Thiamethoxam	0.0020	U	ug/L	P434735	
		Tolfenpyrad	0.0020	U	ug/L	P434735	
		Triclopyr	0.0040	U	ug/L	P434735	
2435540	EPA 8270E	Aldrin	0.74	U	ng/L	P434680	
		Alpha-BHC	0.11	U	ng/L	P434680	
		Alpha-Chlordane	0.23	U	ng/L	P434680	
		PCB-1016	2.3	U	ng/L	P434680	
		Beta-BHC	0.11	U	ng/L	P434680	
		PCB-1221	2.3	U	ng/L	P434680	
		Beta-Cyfluthrin	1.4	U	ng/L	P434680	
		PCB-1232	2.3	U	ng/L	P434680	
		Bifenthrin	0.57	U	ng/L	P434680	
		PCB-1242	2.3	U	ng/L	P434680	
		PCB-1248	2.3	U	ng/L	P434680	
		Chlorothalonil	4.1	U	ng/L	P434680	
		PCB-1254	2.3	U	ng/L	P434680	
		Cis-Nonachlor	0.23	U	ng/L	P434680	
		PCB-1260	2.3	U	ng/L	P434680	
		Cypermethrin	1.7	U	ng/L	P434680	
		Dacthal	0.17	U	ng/L	P434680	
		DDD-p,p'	0.28	U	ng/L	P434680	
		DDE-p,p'	0.23	U	ng/L	P434680	
		DDT-p,p'	1.3	I	ng/L	P434680	
		Delta-BHC	0.45	U	ng/L	P434680	
		Deltamethrin	1.4	U	ng/L	P434680	
		Dichlobenil	0.28	U	ng/L	P434680	
		Dicofol	1.4	U	ng/L	P434680	
		Dieldrin	0.45	U	ng/L	P434680	
		Endosulfan I	0.45	U	ng/L	P434680	
		Endosulfan II	1.0	U	ng/L	P434680	
		Endosulfan Sulfate	0.34	U	ng/L	P434680	
		Endrin	1.0	U	ng/L	P434680	
		Endrin Aldehyde	0.85	U	ng/L	P434680	
		Endrin Ketone	0.45	U	ng/L	P434680	
		Esfenvalerate	0.85	U	ng/L	P434680	
		Ethalfuralin	0.17	U	ng/L	P434680	

Field ID: G4NW0443

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2435540	EPA 8270E	Fenpropathrin	0.28	U	ng/L	P434680	
		Gamma-BHC	0.14	U	ng/L	P434680	
		Gamma-Chlordane	0.23	U	ng/L	P434680	
		Heptachlor	0.23	U	ng/L	P434680	
		Heptachlor Epoxide	0.28	U	ng/L	P434680	
		Hexachlorobenzene**	1.1	U	ng/L	P434680	
		Kepone	15	UJ	ng/L	P434680	CCV
		Lambda-Cyhalothrin	0.85	U	ng/L	P434680	
		Methoprene	0.85	U	ng/L	P434680	
		Methoxychlor	0.34	U	ng/L	P434680	
		MGK-264	0.23	U	ng/L	P434680	
		Mirex	0.40	U	ng/L	P434680	
		Oxychlordane	0.34	U	ng/L	P434680	
		Permethrin	1.8	U	ng/L	P434680	
		Phenothrin	1.0	U	ng/L	P434680	
		Piperonyl Butoxide	1.1		ng/L	P434680	
		Prallethrin	2.3	U	ng/L	P434680	
		Tau-Fluvalinate	0.28	U	ng/L	P434680	
		Tetramethrin	0.85	U	ng/L	P434680	
		Trans-Nonachlor	0.23	U	ng/L	P434680	
		Triclosan Methyl	0.17	U	ng/L	P434680	
		Trifluralin	0.23	U	ng/L	P434680	
		Chlordane	2.3	U	ng/L	P434680	
		Toxaphene	17	U	ng/L	P434680	
2435541	EPA 8276	Oxybenzone**	11	UQ	ng/L	P435031	
	EPA 8270E	Acetochlor	0.23	U	ng/L	P434753	
		Octinoxate**	170	UQ	ng/L	P435031	
		Alachlor	0.45	UJ	ng/L	P434753	LCS
		Avobenzone**	110	UQ	ng/L	P435031	RPD
		Ametryn	1.2	U	ng/L	P434753	
		Atrazine	2.4		ng/L	P434753	
		PBDE-47**	4.5	UQ	ng/L	P435031	
		Atrazine Desethyl	1.5	U	ng/L	P434753	
		PBDE-99**	5.7	UQ	ng/L	P435031	RPD
		Azinphos Methyl	3.4	U	ng/L	P434753	
		Tri-o-cresyl Phosphate**	6.8	UQ	ng/L	P435031	
		Azoxystrobin	0.45	U	ng/L	P434753	
		Bromacil	0.68	U	ng/L	P434753	
		2-Ethylhexyl	14	UQ	ng/L	P435031	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.23	U	ng/L	P434753	
		Dechlorane Plus**	34	UQ	ng/L	P435031	MS
		Caffeine**	8.4	U	ng/L	P434753	
		Dechlorane 602**	5.7	UQJ	ng/L	P435031	LCS, MS, RPD
		Carbophenothion	0.56	U	ng/L	P434753	

Field ID: G4NW0443

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2435541	EPA 8270E	Dechlorane 603**	4.5	UQ	ng/L	P435031	MS, RPD
		Carfentrazone Ethyl	0.17	U	ng/L	P434753	
		Hexabromobenzene**	6.8	UQ	ng/L	P435031	
		Chlorfenapyr	0.34	U	ng/L	P434753	
		PBB-153**	9.1	UQ	ng/L	P435031	MS, RPD
		Chlorpyrifos Ethyl	0.34	U	ng/L	P434753	
		Pentabromotoluene**	3.4	UQ	ng/L	P435031	
		Chlorpyrifos Methyl	0.11	U	ng/L	P434753	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	80	UQ	ng/L	P435031	
		Coumaphos	1.2	U	ng/L	P434753	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	18	IVQ	ng/L	P435031	
		Cyanazine	5.6	U	ng/L	P434753	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.8	UQ	ng/L	P435031	
		Cyprodinil	0.23	U	ng/L	P434753	
		Tetradecachloro-m-terphenyl**	8.5	UQ	ng/L	P435031	MS
		Demeton	3.9	U	ng/L	P434753	
		Diazinon	0.14	U	ng/L	P434753	
		Difenoconazole	0.68	U	ng/L	P434753	
		Dimethenamid	0.11	U	ng/L	P434753	
		Dimethomorph	0.34	U	ng/L	P434753	
		Disulfoton	0.68	U	ng/L	P434753	
		Dithiopyr	1.1	U	ng/L	P434753	
		EPTC	0.56	U	ng/L	P434753	
		Ethion	0.34	U	ng/L	P434753	
		Ethoprop	0.14	U	ng/L	P434753	
		Etridiazole	0.11	U	ng/L	P434753	
		Fenamiphos	0.51	U	ng/L	P434753	
		Fenbuconazole	0.56	U	ng/L	P434753	
		Fipronil	0.23	U	ng/L	P434753	
		Fipronil Desulfinyl**	0.11	U	ng/L	P434753	
		Fipronil Sulfide	0.11	U	ng/L	P434753	
		Fipronil Sulfone	0.12	I	ng/L	P434753	
		Fluazifop-P-butyl	0.11	U	ng/L	P434753	
		Fludioxonil	0.11	U	ng/L	P434753	
		Flumioxazin	3.4	U	ng/L	P434753	
		Flutolanil	0.32	IJ	ng/L	P434753	LCS
		Fluxapyroxad	0.28	U	ng/L	P434753	
		Fonofos	0.17	U	ng/L	P434753	
		Hexazinone	0.56	U	ng/L	P434753	
		Imazalil	0.73	U	ng/L	P434753	
		Iprodione	0.56	U	ng/L	P434753	MS
		Loratadine**	0.34	U	ng/L	P434753	
		Malathion	0.39	U	ng/L	P434753	
		Metalaxyl	0.56	U	ng/L	P434753	

Field ID: G4NW0443

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2435541	EPA 8270E	Metolachlor	0.84	U	ng/L	P434753	
		Metribuzin	0.45	U	ng/L	P434753	
		Mevinphos	1.1	U	ng/L	P434753	
		Molinate	0.28	UJ	ng/L	P434753	LCS
		Myclobutanil	0.39	U	ng/L	P434753	
		Naled	2.8	U	ng/L	P434753	
		Napropamide	0.79	U	ng/L	P434753	
		Norflurazon	1.1	U	ng/L	P434753	
		Oxadiazon	0.39	U	ng/L	P434753	
		Oxyfluorfen	0.23	U	ng/L	P434753	
		Parathion Ethyl	0.17	U	ng/L	P434753	
		Parathion Methyl	0.23	U	ng/L	P434753	MS
		Pendimethalin	0.84	U	ng/L	P434753	
		Phenytol**	6.0	U	ng/L	P434753	
		Phorate	0.28	U	ng/L	P434753	
		Prodiamine	0.23	U	ng/L	P434753	
		Prometon	3.4	U	ng/L	P434753	
		Prometryn	0.39	U	ng/L	P434753	
		Pronamide	0.11	U	ng/L	P434753	
		Propanil	0.11	U	ng/L	P434753	
		Propargite	0.90	U	ng/L	P434753	
		Propiconazole	0.68	U	ng/L	P434753	
		Pyraflufen Ethyl	0.34	U	ng/L	P434753	
		Pyridaben	1.6	U	ng/L	P434753	
		Pyriproxyfen	0.28	U	ng/L	P434753	
		Simazine	0.28	U	ng/L	P434753	
		Stirophos	0.45	U	ng/L	P434753	
		Sulfentrazone	1.6	U	ng/L	P434753	RPD
		Tebuconazole	1.6	U	ng/L	P434753	
		Terbufos	0.23	U	ng/L	P434753	
		Terbuthylazine	0.23	U	ng/L	P434753	
		Thiobencarb	0.56	U	ng/L	P434753	
		Triadimefon	0.17	U	ng/L	P434753	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2320 B-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

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

EPA 8270E: V - Due to the presence of TCPP in both the Method Blank and the sample. Sample expired for preparation due to need for re-extraction.

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: P434749

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434751

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435143

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435143

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
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: P434988

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435109

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434992

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435055

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435339

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434897

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

Reference Method: EPA 8270E
Batch ID: P434680

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434680

Component	Result	Code	Units
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
DDT-p,p'	0.80	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	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Kepone	14	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434680

Component	Result	Code	Units
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P434753

Component	Result	Code	Units
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Azinphos Methyl	3.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434753

Component	Result	Code	Units
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434753

Component	Result	Code	Units
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.50	U	ng/L
Metaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434753

Component	Result	Code	Units
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiatone	0.20	U	ng/L
Prodiatone	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronatone	0.10	U	ng/L
Pronatone	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L

Reference Method: EPA 8270E

Batch ID: P435031

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Avobenzone	100	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435031

Component	Result	Code	Units
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Octinoxate	150	U	ng/L
Oxybenzone	10	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	16	I	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8276

Batch ID: P434680

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: P434687

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: P434720

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P434735

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P435062

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

Reference Method: SM 2540 C-2015

Batch ID: P435297

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P435206

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P435066

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P435196

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: P434749

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434751

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	80 - 120
Iron	105		P	80 - 120
Magnesium	102		P	80 - 120
Potassium	101		P	80 - 120
Sodium	101		P	80 - 120
Strontium	103		P	80 - 120
Tin	105		P	80 - 120
Titanium	103		P	80 - 120
Vanadium	104		P	80 - 120
Zinc	105		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.8		P	85 - 115
Antimony	98.8		P	85 - 115
Arsenic	99.2		P	85 - 115
Barium	102		P	85 - 115
Beryllium	91.1		P	85 - 115
Boron	104		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	99.9		P	85 - 115
Cobalt	97.8		P	85 - 115
Copper	96.1		P	85 - 115
Lead	95.0		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	99.6		P	85 - 115
Nickel	96.7		P	85 - 115
Selenium	99.2		P	85 - 115
Silver	112		P	85 - 115
Thallium	103		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434988

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435109

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434992

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435055

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435339

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: P434897

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

Reference Method: EPA 8270E
Batch ID: P434680

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	59.4		P	30 - 96.0
Alpha-BHC	89.5		P	70 - 109
Alpha-Chlordane	83.4		P	45 - 107
Beta-BHC	90.9		P	64 - 138
Beta-Cyfluthrin	89.7		P	17 - 141
Bifenthrin	73.0		P	10 - 113
Chlorothalonil	69.7		P	26 - 180
Cis-Nonachlor	76.2		P	37 - 102
Cypermethrin	97.9		P	20 - 133
Dacthal	94.1		P	69 - 114
DDD-p,p'	78.7		P	42 - 105
DDE-p,p'	82.9		P	42 - 106
DDT-p,p'	80.9		P	42 - 107
Delta-BHC	96.6		P	67 - 144
Deltamethrin	121		P	15 - 149
Dichlobenil	59.6		P	46 - 117
Dicofol	76.7		P	34 - 114
Dieldrin	79.6		P	50 - 108
Endosulfan I	79.9		P	55 - 104
Endosulfan II	86.2		P	51 - 111
Endosulfan Sulfate	88.3		P	56 - 121
Endrin	85.1		P	10 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434680

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Aldehyde	80.0		P	34 - 114
Endrin Ketone	118		P	63 - 177
Esfenvalerate	91.0		P	29 - 143
Ethalfuralin	75.2		P	46 - 96.0
Fenpropathrin	89.2		P	28 - 115
Gamma-BHC	109		P	65 - 121
Gamma-Chlordane	77.1		P	39 - 103
Heptachlor	81.3		P	39 - 94.0
Heptachlor Epoxide	80.8		P	54 - 104
Hexachlorobenzene	48.8		P	36 - 100
Kepone	90.4		P	10 - 225
Lambda-Cyhalothrin	79.1		P	10 - 135
Methoprene	72.5		P	10 - 109
Methoxychlor	90.7		P	52 - 112
MGK-264	98.0		P	44 - 117
Mirex	70.1		P	20 - 90.0
Oxychlordane	76.8		P	44 - 102
PCB-1016	77.9		P	45 - 107
PCB-1260	89.2		P	40 - 118
Permethrin	91.0		P	18 - 135
Phenothrin	72.9		P	10 - 102
Piperonyl Butoxide	128		P	28 - 156
Prallethrin	94.2		P	28 - 113
Tau-Fluvalinate	84.1		P	10 - 123
Tetramethrin	110		P	18 - 158
Trans-Nonachlor	80.1		P	39 - 104
Triclosan Methyl	80.5		P	54 - 108
Trifluralin	78.7		P	46 - 97.0

Reference Method: EPA 8270E

Batch ID: P434753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	86.5		P	69 - 123
Alachlor	62.6		F	65 - 118
Ametryn	98.9		P	58 - 141
Atrazine	79.2		P	73 - 118
Atrazine Desethyl	80.2		P	32 - 125
Azinphos Methyl	120		P	36 - 197
Azoxystrobin	70.9		P	58 - 226
Bromacil	80.3		P	48 - 120
Butylate	41.3		P	27 - 85.0
Caffeine	112		P	40 - 137
Carbophenothion	84.8		P	54 - 132
Carfentrazone Ethyl	98.3		P	60 - 142
Chlorfenapyr	96.2		P	53 - 117
Chlorpyrifos Ethyl	75.5		P	59 - 116
Chlorpyrifos Methyl	81.2		P	66 - 119
Coumaphos	129		P	11 - 234
Cyanazine	96.9		P	61 - 248
Cyprodinil	72.0		P	50 - 147
Demeton	49.6		P	30 - 138

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diazinon	82.8		P	67 - 126
Difenoconazole	85.4		P	38 - 205
Dimethenamid	78.8		P	57 - 111
Dimethomorph	100		P	16 - 212
Disulfoton	88.8		P	46 - 126
Dithiopyr	73.2		P	62 - 115
EPTC	39.5		P	28 - 80.0
Ethion	105		P	24 - 122
Ethoprop	71.2		P	62 - 113
Etridiazole	47.2		P	28 - 92.0
Fenamiphos	81.0		P	57 - 128
Fenbuconazole	58.9		P	52 - 155
Fipronil	81.5		P	63 - 130
Fipronil Desulfinyl	77.3		P	61 - 130
Fipronil Sulfide	84.7		P	56 - 117
Fipronil Sulfone	85.9		P	52 - 118
Fluazifop-P-butyl	79.2		P	61 - 128
Fludioxonil	62.6		P	59 - 129
Flumioxazin	99.0		P	30 - 250
Flutolanil	47.6		F	53 - 127
Fluxapyroxad	89.9		P	42 - 132
Fonofos	63.5		P	61 - 110
Hexazinone	72.7		P	46 - 139
Imazalil	80.5		P	40 - 139
Iprodione	56.5		P	40 - 146
Loratadine	117		P	10 - 224
Malathion	105		P	61 - 135
Metaxyl	86.9		P	58 - 121
Metolachlor	85.9		P	64 - 118
Metribuzin	71.3		P	45 - 245
Mevinphos	71.6		P	49 - 118
Molinate	39.5		F	42 - 92.0
Myclobutanil	56.0		P	55 - 127
Naled	24.7		P	10 - 114
Napropamide	67.1		P	39 - 121
Norflurazon	83.1		P	55 - 129
Oxadiazon	67.0		P	54 - 115
Oxyfluorfen	84.2		P	64 - 139
Parathion Ethyl	77.6		P	70 - 111
Parathion Methyl	104		P	76 - 136
Pendimethalin	99.7		P	52 - 118
Phenytoin	67.8		P	10 - 162
Phorate	78.3		P	40 - 122
Prodiamine	31.6		P	26 - 141
Prometon	60.5		P	54 - 122
Prometryn	88.9		P	61 - 128
Pronamide	88.7		P	72 - 121
Propanil	85.5		P	45 - 144
Propargite	86.1		P	10 - 199
Propiconazole	56.9		P	56 - 127
Pyraflufen Ethyl	109		P	56 - 140
Pyridaben	110		P	26 - 211

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyriproxyfen	97.5		P	33 - 194
Simazine	86.2		P	67 - 121
Stirophos	83.6		P	20 - 142
Sulfentrazone	75.2		P	21 - 144
Tebuconazole	81.7		P	10 - 122
Terbufos	85.1		P	60 - 129
Terbutylazine	70.6		P	69 - 113
Thiobencarb	87.7		P	51 - 120
Triadimefon	81.8		P	56 - 114

Reference Method: EPA 8270E

Batch ID: P435031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	72.4		P	42 - 162
Avobenzene	137		P	40 - 203
Dechlorane 602	47.1		F	50 - 150
Dechlorane 603	112		P	50 - 150
Dechlorane Plus	75.3		P	47 - 182
Hexabromobenzene	92.0		P	50 - 150
Octinoxate	102		P	26 - 166
Oxybenzone	105		P	49 - 135
PBB-153	110		P	50 - 150
PBDE-47	68.8		P	41 - 148
PBDE-99	59.1		P	38 - 147
Pentabromotoluene	87.5		P	50 - 150
Tetradecachloro-m-terphenyl	100		P	70 - 200
Tri-o-cresyl Phosphate	106		P	49 - 150
Tris(1-chloro-2-propyl) phosphate (TCPP)	114		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.2		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	88.7		P	70 - 180

Reference Method: EPA 8276

Batch ID: P434680

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	100		P	52 - 117
Toxaphene	116		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P434687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	72.1		P	40 - 150
Aldicarb	75.2		P	30 - 150
Aldicarb Sulfone	84.1		P	40 - 150
Aldicarb Sulfoxide	90.5		P	40 - 150
Carbaryl	73.9		P	40 - 150
Carbofuran	78.7		P	40 - 150
Methiocarb	76.1		P	40 - 150
Methomyl	85.3		P	40 - 150
Oxamyl	89.3		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P434687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propoxur	85.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P434720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	130		P	40 - 150
AMPA	101		P	40 - 150
Endothall	108		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	97.2		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P434735

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	84.4		P	40 - 150
2,4,5-T	88.1		P	40 - 150
Acetaminophen	70.1		P	30 - 150
Acetamiprid	74.9		P	40 - 150
Afidopyropen	62.4		P	30 - 150
Bentazon	89.6		P	30 - 150
Benzovindiflupyr	108		P	40 - 150
Carbamazepine	88.8		P	40 - 150
Clothianidin	96.2		P	40 - 150
Dinotefuran	103		P	40 - 150
Diuron	92.0		P	40 - 150
Fenuron	95.1		P	40 - 150
Fluridone	87.1		P	40 - 150
Hydrocodone	101		P	40 - 150
Ibuprofen	72.5		P	40 - 150
Imazapyr	82.7		P	40 - 150
Imidacloprid	85.4		P	40 - 150
Linuron	91.2		P	40 - 150
Mandestrobin	101		P	40 - 150
MCPP	94.4		P	40 - 150
Naproxen	82.4		P	40 - 150
Primidone	97.4		P	40 - 150
Pyraclostrobin	92.2		P	40 - 150
Silvex	86.1		P	40 - 150
Thiamethoxam	96.7		P	40 - 150
Tolfenpyrad	62.9		P	30 - 150
Triclopyr	92.0		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P435062

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.3		P	92 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P435297

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

Reference Method: SM 2540 D-2015
Batch ID: P435206

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.4		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P435066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435196

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435947	Iron	102	105	P/P	80 - 120
2435947	Strontium	102	103	P/P	80 - 120
2435947	Tin	94.6	103	P/P	80 - 120
2435947	Titanium	103	108	P/P	80 - 120
2435947	Vanadium	104	108	P/P	80 - 120
2435947	Zinc	101	103	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435947	Aluminum	102	102	P/P	70 - 130
2435947	Antimony	102	102	P/P	70 - 130
2435947	Arsenic	110	109	P/P	70 - 130
2435947	Barium	104	105	P/P	70 - 130
2435947	Beryllium	97.8	104	P/P	70 - 130
2435947	Boron	99.5	106	P/P	70 - 130
2435947	Cadmium	101	99.5	P/P	70 - 130
2435947	Chromium	93.8	93.8	P/P	70 - 130
2435947	Cobalt	96.4	96.5	P/P	70 - 130
2435947	Copper	96.0	94.9	P/P	70 - 130
2435947	Lead	97.7	99.7	P/P	70 - 130
2435947	Manganese	93.7	93.2	P/P	70 - 130
2435947	Molybdenum	109	110	P/P	70 - 130
2435947	Nickel	94.2	95.4	P/P	70 - 130
2435947	Selenium	106	104	P/P	70 - 130
2435947	Silver	104	105	P/P	70 - 130
2435947	Thallium	105	108	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P434988

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435440	Sulfate	101		P	90 - 110
2435638	Sulfate	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P435109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435440	Chloride	97.5		P	90 - 110
2435638	Chloride	94.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P434992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435518	Ammonia-N	104	105	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P435055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435507	Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P435339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435503	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P434897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435334	Total-P	102	99.4	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P434680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435386	Aldrin	61.5	61.9	P/P	24 - 81.0
2435386	Alpha-BHC	87.1	91.7	P/P	65 - 110
2435386	Alpha-Chlordane	86.6	78.3	P/P	43 - 119
2435386	Beta-BHC	102	94.6	P/P	54 - 165
2435386	Beta-Cyfluthrin	102	88.1	P/P	27 - 165
2435386	Bifenthrin	74.3	65.4	P/P	17 - 117
2435386	Chlorothalonil	95.8	92.2	P/P	10 - 255
2435386	Cis-Nonachlor	85.9	82.0	P/P	34 - 98.0
2435386	Cypermethrin	110	105	P/P	25 - 143
2435386	Dacthal	101	97.0	P/P	55 - 139
2435386	DDD-p,p'	83.9	74.3	P/P	30 - 109
2435386	DDE-p,p'	89.4	78.8	P/P	35 - 106
2435386	DDT-p,p'	81.1	82.2	P/P	41 - 101
2435386	Delta-BHC	110	107	P/P	58 - 165
2435386	Deltamethrin	130	114	P/P	10 - 194
2435386	Dichlobenil	62.0	70.3	P/P	22 - 114
2435386	Dicofol	76.1	74.2	P/P	17 - 133
2435386	Dieldrin	79.0	78.5	P/P	45 - 129
2435386	Endosulfan I	78.4	79.1	P/P	49 - 104
2435386	Endosulfan II	91.3	82.0	P/P	37 - 117
2435386	Endosulfan Sulfate	99.1	86.2	P/P	38 - 128
2435386	Endrin	91.6	81.0	P/P	35 - 116
2435386	Endrin Aldehyde	74.2	74.3	P/P	19 - 108
2435386	Endrin Ketone	127	118	P/P	44 - 134
2435386	Esfenvalerate	103	98.5	P/P	27 - 176
2435386	Ethalfuralin	73.2	68.2	P/P	49 - 100
2435386	Fenpropathrin	86.1	84.7	P/P	34 - 117
2435386	Gamma-BHC	112	122	P/P	59 - 129
2435386	Gamma-Chlordane	84.5	71.3	P/P	33 - 107
2435386	Heptachlor	78.1	88.0	P/P	37 - 94.0
2435386	Heptachlor Epoxide	74.1	81.6	P/P	38 - 118
2435386	Hexachlorobenzene	49.0	51.4	P/P	35 - 97.0
2435386	Kepone	110	107	P/P	10 - 221
2435386	Lambda-Cyhalothrin	86.3	77.7	P/P	23 - 190

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435386	Methoprene	80.4	65.3	P/P	21 - 109
2435386	Methoxychlor	83.6	80.8	P/P	46 - 118
2435386	MGK-264	105	97.4	P/P	39 - 122
2435386	Mirex	80.5	66.3	P/P	25 - 90.0
2435386	Oxychlordane	81.7	74.7	P/P	42 - 100
2435386	Permethrin	93.3	90.5	P/P	33 - 181
2435386	Phenothrin	78.3	70.1	P/P	12 - 125
2435386	Piperonyl Butoxide	117	122	P/P	10 - 178
2435386	Prallethrin	106	89.6	P/P	24 - 122
2435386	Tau-Fluvalinate	99.9	93.6	P/P	13 - 151
2435386	Tetramethrin	105	110	P/P	16 - 172
2435386	Trans-Nonachlor	87.0	75.4	P/P	39 - 100
2435386	Triclosan Methyl	80.6	81.2	P/P	43 - 110
2435386	Trifluralin	71.1	70.4	P/P	45 - 94.0
2435774	PCB-1016	75.1	80.3	P/P	45 - 107
2435774	PCB-1260	75.6	73.2	P/P	40 - 112

Reference Method: EPA 8270E

Batch ID: P434753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436113	Acetochlor	87.3	88.9	P/P	67 - 124
2436113	Alachlor	77.6	88.2	P/P	60 - 120
2436113	Ametryn	103	108	P/P	54 - 216
2436113	Atrazine	91.4	95.0	P/P	66 - 128
2436113	Atrazine Desethyl	77.5	80.2	P/P	15 - 122
2436113	Azinphos Methyl	155	154	P/P	40 - 292
2436113	Azoxystrobin	86.8	86.0	P/P	35 - 220
2436113	Bromacil	98.4	97.4	P/P	45 - 127
2436113	Butylate	57.2	65.3	P/P	20 - 83.0
2436113	Caffeine	110	104	P/P	10 - 194
2436113	Carbophenothion	89.1	83.9	P/P	57 - 127
2436113	Carfentrazone Ethyl	90.5	77.3	P/P	51 - 141
2436113	Chlorfenapyr	107	108	P/P	46 - 111
2436113	Chlorpyrifos Ethyl	112	110	P/P	52 - 120
2436113	Chlorpyrifos Methyl	135	133	F/F	63 - 119
2436113	Coumaphos	194	190	P/P	10 - 228
2436113	Cyanazine	81.8	86.5	P/P	59 - 241
2436113	Cyprodinil	63.8	67.6	P/P	47 - 146
2436113	Demeton	95.9	107	P/P	40 - 136
2436113	Diazinon	75.3	80.0	P/P	69 - 132
2436113	Difenoconazole	61.7	70.2	P/P	57 - 258
2436113	Dimethenamid	81.5	80.6	P/P	54 - 110
2436113	Dimethomorph	70.0	83.8	P/P	28 - 210
2436113	Disulfoton	93.8	104	P/P	43 - 133
2436113	Dithiopyr	88.1	79.6	P/P	39 - 116
2436113	EPTC	46.5	57.2	P/P	20 - 78.0
2436113	Ethion	74.2	60.6	P/P	17 - 119
2436113	Ethoprop	91.4	85.4	P/P	66 - 120
2436113	Etridiazole	69.2	83.5	P/P	28 - 96.0
2436113	Fenamiphos	95.7	81.1	P/P	41 - 126
2436113	Fenbuconazole	136	129	P/P	42 - 169

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436113	Fipronil	98.4	96.9	P/P	61 - 132
2436113	Fipronil Desulfinyl	97.4	95.7	P/P	56 - 132
2436113	Fipronil Sulfide	86.0	85.4	P/P	48 - 119
2436113	Fipronil Sulfone	104	103	P/P	42 - 131
2436113	Fluazifop-P-butyl	92.1	101	P/P	53 - 131
2436113	Fludioxonil	111	112	P/P	56 - 127
2436113	Flumioxazin	69.7	77.8	P/P	19 - 300
2436113	Flutolanil	99.1	94.4	P/P	41 - 127
2436113	Fluxapyroxad	145	131	P/P	42 - 172
2436113	Fonofos	97.8	97.9	P/P	59 - 113
2436113	Hexazinone	84.4	85.1	P/P	66 - 122
2436113	Imazalil	102	108	P/P	21 - 283
2436113	Iprodione	186	183	F/F	43 - 150
2436113	Loratadine	185	198	P/P	23 - 201
2436113	Malathion	114	118	P/P	58 - 136
2436113	Metalaxyl	85.3	84.0	P/P	55 - 120
2436113	Metolachlor	74.1	85.4	P/P	57 - 121
2436113	Metribuzin	78.7	86.9	P/P	58 - 294
2436113	Mevinphos	109	109	P/P	50 - 126
2436113	Molinate	62.9	70.9	P/P	42 - 93.0
2436113	Myclobutanil	65.6	66.7	P/P	55 - 125
2436113	Naled	48.4	49.4	P/P	18 - 200
2436113	Napropamide	89.5	88.4	P/P	39 - 110
2436113	Norflurazon	85.4	77.3	P/P	48 - 128
2436113	Oxadiazon	94.3	92.0	P/P	43 - 112
2436113	Oxyfluorfen	78.5	78.0	P/P	64 - 153
2436113	Parathion Ethyl	84.7	79.3	P/P	69 - 114
2436113	Parathion Methyl	171	183	F/F	79 - 139
2436113	Pendimethalin	64.9	67.5	P/P	50 - 139
2436113	Phenytoin	41.6	35.6	P/P	10 - 146
2436113	Phorate	76.7	66.5	P/P	54 - 161
2436113	Prodiamine	81.1	90.3	P/P	30 - 161
2436113	Prometon	64.0	71.3	P/P	45 - 134
2436113	Prometryn	73.7	76.6	P/P	45 - 137
2436113	Pronamide	90.2	94.3	P/P	65 - 133
2436113	Propanil	91.2	91.8	P/P	49 - 142
2436113	Propargite	120	110	P/P	10 - 203
2436113	Propiconazole	126	110	P/P	38 - 146
2436113	Pyraflufen Ethyl	84.4	81.4	P/P	34 - 153
2436113	Pyridaben	103	107	P/P	12 - 192
2436113	Pyriproxyfen	82.8	76.4	P/P	33 - 180
2436113	Simazine	88.9	94.0	P/P	51 - 157
2436113	Stirophos	46.8	45.6	P/P	10 - 128
2436113	Sulfentrazone	173	78.4	P/P	53 - 186
2436113	Tebuconazole	116	102	P/P	10 - 133
2436113	Terbufos	94.6	104	P/P	65 - 139
2436113	Terbuthylazine	88.6	91.4	P/P	66 - 117
2436113	Thiobencarb	80.8	84.4	P/P	51 - 119
2436113	Triadimefon	69.5	75.6	P/P	48 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437649	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	64.4	59.5	P/P	26 - 165
2437649	Avobenzene	71.6	132	P/P	37 - 178
2437649	Dechlorane 602	33.0	60.5	F/P	50 - 150
2437649	Dechlorane 603	49.4	92.7	F/P	50 - 150
2437649	Dechlorane Plus	49.8	64.6	F/P	50 - 150
2437649	Hexabromobenzene	66.8	82.5	P/P	50 - 150
2437649	Octinoxate	90.9	94.7	P/P	21 - 159
2437649	Oxybenzone	93.7	107	P/P	41 - 142
2437649	PBB-153	35.9	75.7	F/P	50 - 150
2437649	PBDE-47	59.6	77.4	P/P	27 - 144
2437649	PBDE-99	27.4	55.0	P/P	18 - 150
2437649	Pentabromotoluene	80.4	84.1	P/P	50 - 150
2437649	Tetradecachloro-m-terphenyl	65.5	80.2	F/P	70 - 200
2437649	Tri-o-cresyl Phosphate	83.1	93.6	P/P	31 - 144
2437649	Tris(1-chloro-2-propyl) phosphate (TCPP)	88.4	123	P/P	50 - 150
2437649	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	75.8	92.5	P/P	50 - 150
2437649	Tris(2-chloroethyl) phosphate (TCEP)	101	84.1	P/P	70 - 180

Reference Method: EPA 8276

Batch ID: P434680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435774	Chlordane	104	95.4	P/P	43 - 123
2435774	Toxaphene	129	117	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P434687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434124	3-Hydroxycarbofuran	59.8	57.4	P/P	40 - 150
2434124	Aldicarb	45.8	42.6	P/P	30 - 150
2434124	Aldicarb Sulfone	62.6	65.3	P/P	40 - 150
2434124	Aldicarb Sulfoxide	25.6	27.5	F/F	40 - 150
2434124	Carbaryl	47.4	48.9	P/P	40 - 150
2434124	Carbofuran	45.9	44.5	P/P	40 - 150
2434124	Methiocarb	60.5	60.2	P/P	40 - 150
2434124	Methomyl	49.4	50.9	P/P	40 - 150
2434124	Oxamyl	53.7	56.9	P/P	40 - 150
2434124	Propoxur	46.6	44.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435455	Acesulfame K	129	127	P/P	40 - 150
2435455	AMPA	71.8	71.9	P/P	40 - 150
2435455	Endothall	109	116	P/P	40 - 150
2435455	Glufosinate	96.3	89.3	P/P	40 - 150
2435455	Glyphosate	74.4	71.6	P/P	40 - 150
2435455	Sucralose	118	130	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P434735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435455	2,4-D	103	116	P/P	40 - 150
2435455	2,4,5-T	100	118	P/P	40 - 150
2435455	Acetaminophen	83.4	91.0	P/P	30 - 150
2435455	Acetamiprid	71.1	77.1	P/P	40 - 150
2435455	Afidopyropen	67.7	73.9	P/P	30 - 150
2435455	Bentazon	51.7	56.2	P/P	30 - 150
2435455	Benzovindiflupyr	98.3	109	P/P	40 - 150
2435455	Carbamazepine	68.4	75.3	P/P	40 - 150
2435455	Clothianidin	106	114	P/P	40 - 150
2435455	Dinotefuran	85.9	88.6	P/P	40 - 150
2435455	Diuron	61.4	69.4	P/P	40 - 150
2435455	Fenuron	59.9	64.5	P/P	40 - 150
2435455	Fluridone	56.1	62.5	P/P	40 - 150
2435455	Hydrocodone	71.5	77.2	P/P	40 - 150
2435455	Ibuprofen	60.7	71.4	P/P	40 - 150
2435455	Imazapyr	75.6	84.8	P/P	40 - 150
2435455	Imidacloprid	125	137	P/P	40 - 150
2435455	Linuron	58.9	73.5	P/P	40 - 150
2435455	Mandestrobin	86.3	96.4	P/P	40 - 150
2435455	MCCPP	114	120	P/P	40 - 150
2435455	Naproxen	82.7	73.8	P/P	40 - 150
2435455	Primidone	89.6	103	P/P	40 - 150
2435455	Pyraclostrobin	84.2	88.1	P/P	40 - 150
2435455	Silvex	103	117	P/P	40 - 150
2435455	Thiamethoxam	92.5	101	P/P	40 - 150
2435455	Tolfenpyrad	63.0	60.4	P/P	30 - 150
2435455	Triclopyr	111	128	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P435066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434151	Fluoride	102	103	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P435196

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435501	Organic Carbon	88.7	89.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P434749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435487	Color (true)	1.35	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435517	Turbidity	4.89	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435947	Calcium	3.10	Spike	P	0 - 20
2435947	Iron	2.04	Spike	P	0 - 20
2435947	Magnesium	2.98	Spike	P	0 - 20
2435947	Potassium	1.81	Spike	P	0 - 20
2435947	Sodium	1.59	Spike	P	0 - 20
2435947	Strontium	0.661	Spike	P	0 - 20
2435947	Tin	8.40	Spike	P	0 - 20
2435947	Titanium	4.34	Spike	P	0 - 20
2435947	Vanadium	3.32	Spike	P	0 - 20
2435947	Zinc	2.29	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435947	Aluminum	0.577	Spike	P	0 - 20
2435947	Antimony	0.296	Spike	P	0 - 20
2435947	Arsenic	0.987	Spike	P	0 - 20
2435947	Barium	0.384	Spike	P	0 - 20
2435947	Beryllium	6.15	Spike	P	0 - 20
2435947	Boron	1.47	Spike	P	0 - 20
2435947	Cadmium	0.993	Spike	P	0 - 20
2435947	Chromium	0.0448	Spike	P	0 - 20
2435947	Cobalt	0.0554	Spike	P	0 - 20
2435947	Copper	1.18	Spike	P	0 - 20
2435947	Lead	2.00	Spike	P	0 - 20
2435947	Manganese	0.503	Spike	P	0 - 20
2435947	Molybdenum	0.287	Spike	P	0 - 20
2435947	Nickel	1.21	Spike	P	0 - 20
2435947	Selenium	2.14	Spike	P	0 - 20
2435947	Silver	0.775	Spike	P	0 - 20
2435947	Thallium	2.50	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435440	Chloride	0.0128	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435518	Ammonia-N	1.34	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435507	Kjeldahl Nitrogen	1.51	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435503	NO2NO3-N	0.962	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435334	Total-P	2.95	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P434680

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435386	Aldrin	0.733	Spike	P	0 - 41
2435386	Alpha-BHC	5.15	Spike	P	0 - 25
2435386	Alpha-Chlordane	10.0	Spike	P	0 - 32
2435386	Beta-BHC	7.27	Spike	P	0 - 33
2435386	Beta-Cyfluthrin	15.0	Spike	P	0 - 43
2435386	Bifenthrin	12.6	Spike	P	0 - 52
2435386	Chlorothalonil	3.88	Spike	P	0 - 82
2435386	Cis-Nonachlor	4.63	Spike	P	0 - 33
2435386	Cypermethrin	4.17	Spike	P	0 - 51
2435386	Dacthal	4.21	Spike	P	0 - 27
2435386	DDD-p,p'	12.1	Spike	P	0 - 39
2435386	DDE-p,p'	12.6	Spike	P	0 - 31
2435386	DDT-p,p'	1.36	Spike	P	0 - 29
2435386	Delta-BHC	2.50	Spike	P	0 - 35
2435386	Deltamethrin	13.3	Spike	P	0 - 100
2435386	Dichlobenil	12.6	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P434680

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435386	Dicofol	2.52	Spike	P	0 - 37
2435386	Dieldrin	0.737	Spike	P	0 - 27
2435386	Endosulfan I	0.910	Spike	P	0 - 23
2435386	Endosulfan II	10.7	Spike	P	0 - 34
2435386	Endosulfan Sulfate	13.9	Spike	P	0 - 36
2435386	Endrin	12.3	Spike	P	0 - 45
2435386	Endrin Aldehyde	0.144	Spike	P	0 - 76
2435386	Endrin Ketone	7.50	Spike	P	0 - 43
2435386	Esfenvalerate	4.64	Spike	P	0 - 51
2435386	Ethalfuralin	7.09	Spike	P	0 - 22
2435386	Fenpropathrin	1.59	Spike	P	0 - 49
2435386	Gamma-BHC	9.19	Spike	P	0 - 28
2435386	Gamma-Chlordane	17.0	Spike	P	0 - 40
2435386	Heptachlor	12.0	Spike	P	0 - 29
2435386	Heptachlor Epoxide	9.64	Spike	P	0 - 33
2435386	Hexachlorobenzene	4.86	Spike	P	0 - 36
2435386	Kepone	2.69	Spike	P	0 - 85
2435386	Lambda-Cyhalothrin	10.5	Spike	P	0 - 55
2435386	Methoprene	20.8	Spike	P	0 - 53
2435386	Methoxychlor	3.47	Spike	P	0 - 50
2435386	MGK-264	7.87	Spike	P	0 - 43
2435386	Mirex	19.3	Spike	P	0 - 40
2435386	Oxychlordane	9.00	Spike	P	0 - 31
2435386	Permethrin	3.05	Spike	P	0 - 50
2435386	Phenothrin	11.0	Spike	P	0 - 58
2435386	Piperonyl Butoxide	4.37	Spike	P	0 - 100
2435386	Prallethrin	16.4	Spike	P	0 - 39
2435386	Tau-Fluvalinate	6.47	Spike	P	0 - 54
2435386	Tetramethrin	4.56	Spike	P	0 - 51
2435386	Trans-Nonachlor	14.3	Spike	P	0 - 39
2435386	Triclosan Methyl	0.719	Spike	P	0 - 31
2435386	Trifluralin	0.945	Spike	P	0 - 22
2435774	PCB-1016	6.76	Spike	P	0 - 25
2435774	PCB-1260	3.25	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P434753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436113	Acetochlor	1.82	Spike	P	0 - 28
2436113	Alachlor	12.9	Spike	P	0 - 30
2436113	Ametryn	5.07	Spike	P	0 - 32
2436113	Atrazine	2.39	Spike	P	0 - 41
2436113	Atrazine Desethyl	3.45	Spike	P	0 - 36
2436113	Azinphos Methyl	0.395	Spike	P	0 - 75
2436113	Azoxystrobin	0.919	Spike	P	0 - 39
2436113	Bromacil	0.926	Spike	P	0 - 33
2436113	Butylate	13.3	Spike	P	0 - 44
2436113	Caffeine	4.82	Spike	P	0 - 74
2436113	Carbophenothion	6.08	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P434753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436113	Carfentrazone Ethyl	15.7	Spike	P	0 - 27
2436113	Chlorfenapyr	0.681	Spike	P	0 - 24
2436113	Chlorpyrifos Ethyl	2.13	Spike	P	0 - 26
2436113	Chlorpyrifos Methyl	1.72	Spike	P	0 - 26
2436113	Coumaphos	1.91	Spike	P	0 - 28
2436113	Cyanazine	5.53	Spike	P	0 - 48
2436113	Cyprodinil	5.81	Spike	P	0 - 29
2436113	Demeton	10.9	Spike	P	0 - 33
2436113	Diazinon	5.93	Spike	P	0 - 29
2436113	Difenoconazole	12.8	Spike	P	0 - 34
2436113	Dimethenamid	1.05	Spike	P	0 - 39
2436113	Dimethomorph	18.0	Spike	P	0 - 51
2436113	Disulfoton	9.88	Spike	P	0 - 30
2436113	Dithiopyr	10.2	Spike	P	0 - 26
2436113	EPTC	20.7	Spike	P	0 - 43
2436113	Ethion	20.2	Spike	P	0 - 79
2436113	Ethoprop	6.80	Spike	P	0 - 29
2436113	Etridiazole	18.8	Spike	P	0 - 33
2436113	Fenamiphos	16.5	Spike	P	0 - 40
2436113	Fenbuconazole	5.75	Spike	P	0 - 74
2436113	Fipronil	1.52	Spike	P	0 - 29
2436113	Fipronil Desulfinyf	1.62	Spike	P	0 - 32
2436113	Fipronil Sulfide	0.622	Spike	P	0 - 30
2436113	Fipronil Sulfone	0.145	Spike	P	0 - 33
2436113	Fluazifop-P-butyl	8.89	Spike	P	0 - 38
2436113	Fludioxonil	0.586	Spike	P	0 - 29
2436113	Flumioxazin	11.1	Spike	P	0 - 51
2436113	Flutolanil	4.83	Spike	P	0 - 25
2436113	Fluxapyroxad	9.09	Spike	P	0 - 45
2436113	Fonofos	0.0527	Spike	P	0 - 27
2436113	Hexazinone	0.673	Spike	P	0 - 30
2436113	Imazalil	6.08	Spike	P	0 - 100
2436113	Iprodione	2.01	Spike	P	0 - 33
2436113	Loratadine	7.04	Spike	P	0 - 56
2436113	Malathion	3.22	Spike	P	0 - 37
2436113	Metalaxyl	1.61	Spike	P	0 - 40
2436113	Metolachlor	6.16	Spike	P	0 - 29
2436113	Metribuzin	7.52	Spike	P	0 - 45
2436113	Mevinphos	0.647	Spike	P	0 - 29
2436113	Molinate	11.9	Spike	P	0 - 33
2436113	Myclobutanil	1.63	Spike	P	0 - 26
2436113	Naled	1.96	Spike	P	0 - 37
2436113	Napropamide	1.19	Spike	P	0 - 44
2436113	Norflurazon	9.95	Spike	P	0 - 30
2436113	Oxadiazon	1.32	Spike	P	0 - 28
2436113	Oxyfluorfen	0.508	Spike	P	0 - 28
2436113	Parathion Ethyl	6.55	Spike	P	0 - 31
2436113	Parathion Methyl	6.60	Spike	P	0 - 29
2436113	Pendimethalin	3.92	Spike	P	0 - 33
2436113	Phenytoin	15.7	Spike	P	0 - 100
2436113	Phorate	14.1	Spike	P	0 - 36

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P434753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436113	Prodiamine	10.7	Spike	P	0 - 71
2436113	Prometon	4.93	Spike	P	0 - 36
2436113	Prometryn	3.93	Spike	P	0 - 28
2436113	Pronamide	4.36	Spike	P	0 - 24
2436113	Propanil	0.598	Spike	P	0 - 28
2436113	Propargite	9.21	Spike	P	0 - 43
2436113	Propiconazole	12.1	Spike	P	0 - 33
2436113	Pyraflufen Ethyl	3.59	Spike	P	0 - 29
2436113	Pyridaben	3.35	Spike	P	0 - 30
2436113	Pyriproxyfen	7.98	Spike	P	0 - 79
2436113	Simazine	2.56	Spike	P	0 - 29
2436113	Stirophos	2.52	Spike	P	0 - 61
2436113	Sulfentrazone	75.1	Spike	F	0 - 33
2436113	Tebuconazole	9.84	Spike	P	0 - 69
2436113	Terbufos	9.19	Spike	P	0 - 29
2436113	Terbutylazine	3.15	Spike	P	0 - 32
2436113	Thiobencarb	4.46	Spike	P	0 - 26
2436113	Triadimefon	8.39	Spike	P	0 - 28

Reference Method: EPA 8270E

Batch ID: P435031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437649	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	7.93	Spike	P	0 - 37
2437649	Avobenzene	59.2	Spike	F	0 - 36
2437649	Dechlorane 602	58.8	Spike	F	0 - 30
2437649	Dechlorane 603	61.0	Spike	F	0 - 30
2437649	Dechlorane Plus	25.8	Spike	P	0 - 30
2437649	Hexabromobenzene	21.1	Spike	P	0 - 30
2437649	Octinoxate	4.17	Spike	P	0 - 45
2437649	Oxybenzone	13.2	Spike	P	0 - 46
2437649	PBB-153	71.2	Spike	F	0 - 30
2437649	PBDE-47	26.1	Spike	P	0 - 36
2437649	PBDE-99	66.9	Spike	F	0 - 40
2437649	Pentabromotoluene	4.47	Spike	P	0 - 30
2437649	Tetradecachloro-m-terphenyl	20.2	Spike	P	0 - 30
2437649	Tri-o-cresyl Phosphate	11.9	Spike	P	0 - 33
2437649	Tris(1-chloro-2-propyl) phosphate (TCPP)	28.2	Spike	P	0 - 30
2437649	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	18.6	Spike	P	0 - 30
2437649	Tris(2-chloroethyl) phosphate (TCEP)	18.5	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P434680

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435774	Chlordane	8.30	Spike	P	0 - 28
2435774	Toxaphene	9.34	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434124	3-Hydroxycarbofuran	4.23	Spike	P	0 - 30
2434124	Aldicarb	7.13	Spike	P	0 - 30
2434124	Aldicarb Sulfone	4.17	Spike	P	0 - 30
2434124	Aldicarb Sulfoxide	7.16	Spike	P	0 - 30
2434124	Carbaryl	3.09	Spike	P	0 - 30
2434124	Carbofuran	3.16	Spike	P	0 - 30
2434124	Methiocarb	0.617	Spike	P	0 - 30
2434124	Methomyl	2.86	Spike	P	0 - 30
2434124	Oxamyl	5.80	Spike	P	0 - 30
2434124	Propoxur	4.53	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P434720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435455	Acesulfame K	1.35	Spike	P	0 - 30
2435455	AMPA	0.0590	Spike	P	0 - 30
2435455	Endothall	6.37	Spike	P	0 - 30
2435455	Glufosinate	7.46	Spike	P	0 - 30
2435455	Glyphosate	3.88	Spike	P	0 - 30
2435455	Sucralose	8.89	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P434735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435455	2,4-D	11.2	Spike	P	0 - 30
2435455	2,4,5-T	16.4	Spike	P	0 - 30
2435455	Acetaminophen	8.68	Spike	P	0 - 30
2435455	Acetamiprid	8.19	Spike	P	0 - 30
2435455	Afidopyropen	8.76	Spike	P	0 - 30
2435455	Bentazon	8.43	Spike	P	0 - 30
2435455	Benzovindiflupyr	10.4	Spike	P	0 - 30
2435455	Carbamazepine	6.81	Spike	P	0 - 30
2435455	Clothianidin	7.13	Spike	P	0 - 30
2435455	Dinotefuran	3.01	Spike	P	0 - 30
2435455	Diuron	9.86	Spike	P	0 - 30
2435455	Fenuron	7.36	Spike	P	0 - 30
2435455	Fluridone	10.9	Spike	P	0 - 30
2435455	Hydrocodone	7.67	Spike	P	0 - 30
2435455	Ibuprofen	16.2	Spike	P	0 - 30
2435455	Imazapyr	9.55	Spike	P	0 - 30
2435455	Imidacloprid	8.01	Spike	P	0 - 30
2435455	Linuron	22.2	Spike	P	0 - 30
2435455	Mandestrobin	11.0	Spike	P	0 - 30
2435455	MCP	5.82	Spike	P	0 - 30
2435455	Naproxen	11.4	Spike	P	0 - 30
2435455	Primidone	14.0	Spike	P	0 - 30
2435455	Pyraclostrobin	4.62	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435455	Silvex	12.4	Spike	P	0 - 30
2435455	Thiamethoxam	8.45	Spike	P	0 - 30
2435455	Tolfenpyrad	4.10	Spike	P	0 - 30
2435455	Triclopyr	14.3	Spike	P	0 - 30

Reference Method: SM 2540 C-2015
Batch ID: P435297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435580	TDS	2.50	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434151	Fluoride	0.473	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435501	Organic Carbon	1.07	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2435538
Field Sample ID: G4NW0443

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	62.8	P	30 - 160

Lab Sample ID: 2435539
Field Sample ID: G4NW0443

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	153	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.4	P	30 - 160
EPA 8321B	Diuron-d6	69.8	P	30 - 160
EPA 8321B	Endothall-d6	58.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	52.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.1	P	30 - 160
EPA 8321B	Primidone-d5	93.8	P	30 - 160
EPA 8321B	Sucralose-d6	90.2	P	30 - 160

Lab Sample ID: 2435540
Field Sample ID: G4NW0443

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	78.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	69.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	48.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	41.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	69.9	P	28 - 102
EPA 8276	PCNB	64.8	P	49 - 115

Lab Sample ID: 2435541
Field Sample ID: G4NW0443

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	71.2	P	20 - 200
EPA 8270E	Simazine-d10	74.6	P	62 - 142
EPA 8270E	Terbufos-d10	94.7	P	58 - 132
EPA 8270E	Terphenyl-d14	98.8	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A121426

Included Lab Sample IDs: 2435517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	98.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121428

Included Lab Sample IDs: 2435517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.0	97.0	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A121456

Included Lab Sample IDs: 2435539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	120	119	P/P	60 - 160
Sucralose	128	108	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121466

Included Lab Sample IDs: 2435539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	88.2	91.1	P/P	60 - 160
Endothall	112	123	P/P	60 - 160
Glufosinate	95.2	94.3	P/P	60 - 160
Glyphosate	88.3	87.0	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121485

Included Lab Sample IDs: 2435517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	99.4	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A121512

Included Lab Sample IDs: 2435540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.4		P	80 - 120
Alpha-BHC	97.9		P	80 - 120
Alpha-Chlordane	107		P	80 - 120
Beta-BHC	116		P	80 - 120
Beta-Cyfluthrin	110		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	101		P	80 - 120
Cis-Nonachlor	108		P	80 - 120
Cypermethrin	93.4		P	80 - 120
Dacthal	108		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121512
Included Lab Sample IDs: 2435540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDT-p,p'	101		P	80 - 120
Delta-BHC	109		P	80 - 120
Deltamethrin	108		P	80 - 120
Dichlobenil	113		P	80 - 120
Dicofol	96.7		P	80 - 120
Dieldrin	106		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	106		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	107		P	80 - 120
Endrin Aldehyde	112		P	80 - 120
Endrin Ketone	105		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	95.1		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	108		P	80 - 120
Gamma-Chlordane	105		P	80 - 120
Heptachlor	89.4		P	80 - 120
Heptachlor Epoxide	107		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	132*		F	80 - 120
Lambda-Cyhalothrin	105		P	80 - 120
Methoprene	105		P	80 - 120
Methoxychlor	107		P	80 - 120
MGK-264	106		P	80 - 120
Mirex	107		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	105		P	80 - 120
Phenothrin	106		P	80 - 120
Piperonyl Butoxide	104		P	80 - 120
Prallethrin	110		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	107		P	80 - 120
Trans-Nonachlor	113		P	80 - 120
Triclosan Methyl	107		P	80 - 120
Trifluralin	96.0		P	80 - 120

Reference Method: EPA 8321B
Run ID: A121518
Included Lab Sample IDs: 2435538

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	102	96.8	P/P	60 - 150
Aldicarb	112	107	P/P	60 - 150
Aldicarb Sulfone	104	100	P/P	50 - 150
Aldicarb Sulfoxide	109	108	P/P	50 - 150
Carbaryl	113	122	P/P	60 - 150
Carbofuran	112	113	P/P	50 - 150
Methiocarb	104	100	P/P	50 - 150
Methomyl	106	110	P/P	50 - 150
Oxamyl	105	105	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121518
Included Lab Sample IDs: 2435538

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propoxur	122	123	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A121522
Included Lab Sample IDs: 2435539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	82.7	83.8	P/P	50 - 150
2,4,5-T	84.3	81.6	P/P	50 - 150
Acetaminophen	85.8	85.7	P/P	60 - 160
Acetamiprid	113	112	P/P	50 - 150
Afidopyropen	118	118	P/P	50 - 150
Bentazon	114	105	P/P	50 - 160
Benzovindiflupyr	119	123	P/P	50 - 150
Carbamazepine	116	110	P/P	60 - 150
Clothianidin	100	103	P/P	60 - 150
Dinotefuran	112	118	P/P	50 - 150
Diuron	111	114	P/P	60 - 160
Fenuron	107	107	P/P	60 - 150
Fluridone	97.2	101	P/P	60 - 160
Hydrocodone	119	122	P/P	60 - 150
Ibuprofen	98.6	118	P/P	50 - 160
Imazapyr	89.1	95.9	P/P	50 - 150
Imidacloprid	98.8	99.7	P/P	60 - 150
Linuron	112	114	P/P	60 - 150
Mandestrobin	122	128	P/P	50 - 150
MCPP	83.9	89.2	P/P	50 - 150
Naproxen	129	116	P/P	50 - 160
Primidone	103	107	P/P	60 - 150
Pyraclostrobin	110	112	P/P	60 - 150
Silvex	82.8	90.6	P/P	50 - 150
Thiamethoxam	111	111	P/P	50 - 150
Tolfenpyrad	110	108	P/P	60 - 150
Triclopyr	87.8	87.6	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A121535
Included Lab Sample IDs: 2435518

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A121536
Included Lab Sample IDs: 2435518

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121549
Included Lab Sample IDs: 2435540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	106		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A121560
Included Lab Sample IDs: 2435517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.5	97.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A121560
Included Lab Sample IDs: 2435517

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A121585
Included Lab Sample IDs: 2435517

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A121617
Included Lab Sample IDs: 2435518

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	103	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A121625
Included Lab Sample IDs: 2435518

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	97.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A121637
Included Lab Sample IDs: 2435550, 2435551

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.4	99.5	P/P	90 - 110
Antimony	94.5	95.0	P/P	90 - 110
Arsenic	99.6	101	P/P	90 - 110
Barium	98.6	100	P/P	90 - 110
Beryllium	97.2	98.0	P/P	90 - 110
Boron	101	99.7	P/P	90 - 110
Boron	99.7	100	P/P	90 - 110
Cadmium	101	99.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121637

Included Lab Sample IDs: 2435550, 2435551

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	99.4	98.7	P/P	90 - 110
Cobalt	98.0	98.6	P/P	90 - 110
Copper	96.8	98.0	P/P	90 - 110
Lead	93.0	92.6	P/P	90 - 110
Manganese	99.7	99.7	P/P	90 - 110
Molybdenum	98.3	99.4	P/P	90 - 110
Nickel	97.1	98.8	P/P	90 - 110
Selenium	100	101	P/P	90 - 110
Silver	100	99.7	P/P	90 - 110
Thallium	98.8	98.2	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A121675

Included Lab Sample IDs: 2435540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	104		P	80 - 120
Toxaphene	103		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121676

Included Lab Sample IDs: 2435550, 2435551

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	95.3	P/P	95 - 105
Iron	101	95.5	P/P	95 - 105
Magnesium	101	95.3	P/P	95 - 105
Potassium	98.7	93.4	P/P	95 - 105
Sodium	100	95.1	P/P	95 - 105
Strontium	100	100	P/P	95 - 105
Tin	100	100	P/P	95 - 105
Titanium	100	98.5	P/P	95 - 105
Vanadium	101	99.0	P/P	95 - 105
Zinc	102	100	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A121694

Included Lab Sample IDs: 2435518

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

Reference Method: EPA 8270E

Run ID: A121720

Included Lab Sample IDs: 2435541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.2		P	80 - 120
Alachlor	89.0		P	80 - 120
Ametryn	108		P	80 - 120
Atrazine	96.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121720
Included Lab Sample IDs: 2435541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine Desethyl	89.1		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Azoxystrobin	97.6		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	104		P	80 - 120
Caffeine	117		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	118		P	80 - 120
Chlorpyrifos Ethyl	91.2		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	97.2		P	80 - 120
Cyanazine	88.8		P	80 - 120
Cyprodinil	110		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	109		P	80 - 120
Difenoconazole	99.2		P	80 - 120
Dimethenamid	100		P	80 - 120
Dimethomorph	88.5		P	80 - 120
Disulfoton	97.3		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	81.1		P	80 - 120
Ethoprop	96.9		P	80 - 120
Etridiazole	98.8		P	80 - 120
Fenamiphos	89.7		P	80 - 120
Fenbuconazole	81.2		P	80 - 120
Fipronil	94.6		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	90.9		P	80 - 120
Flumioxazin	93.0		P	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	96.3		P	80 - 120
Fonofos	97.2		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	97.8		P	80 - 120
Iprodione	92.8		P	80 - 120
Loratadine	86.1		P	80 - 120
Malathion	95.4		P	80 - 120
Metalaxyl	97.1		P	80 - 120
Metolachlor	99.0		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	104		P	80 - 120
Molinate	91.3		P	80 - 120
Myclobutanil	91.4		P	80 - 120
Naled	110		P	80 - 120
Napropamide	98.2		P	80 - 120
Norflurazon	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121720
Included Lab Sample IDs: 2435541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxadiazon	96.5		P	80 - 120
Oxyfluorfen	93.4		P	80 - 120
Parathion Ethyl	95.7		P	80 - 120
Parathion Methyl	97.7		P	80 - 120
Pendimethalin	114		P	80 - 120
Phenytoin	95.0		P	80 - 120
Phorate	118		P	80 - 120
Prodiamine	111		P	80 - 120
Prometon	99.4		P	80 - 120
Prometryn	106		P	80 - 120
Pronamide	94.7		P	80 - 120
Propanil	89.0		P	80 - 120
Propargite	95.2		P	80 - 120
Propiconazole	89.6		P	80 - 120
Pyraflufen Ethyl	110		P	80 - 120
Pyridaben	91.4		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	86.2		P	80 - 120
Stirophos	105		P	80 - 120
Sulfentrazone	119		P	80 - 120
Tebuconazole	98.4		P	80 - 120
Terbufos	94.7		P	80 - 120
Terbuthylazine	95.0		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	91.3		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A121721
Included Lab Sample IDs: 2435551

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

Reference Method: EPA 8270E
Run ID: A121722
Included Lab Sample IDs: 2435541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.3		P	80 - 120
Avobenzone	109		P	80 - 120
Dechlorane 602	96.4		P	80 - 120
Dechlorane 603	104		P	80 - 120
Dechlorane Plus	97.1		P	80 - 120
Hexabromobenzene	92.0		P	80 - 120
Octinoxate	93.0		P	80 - 120
Oxybenzone	99.8		P	80 - 120
PBB-153	99.5		P	80 - 120
PBDE-47	91.2		P	80 - 120
PBDE-99	95.9		P	80 - 120
Pentabromotoluene	101		P	80 - 120
Tetradecachloro-m-terphenyl	114		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A121722
Included Lab Sample IDs: 2435541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tri-o-cresyl Phosphate	94.5		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	88.0		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.1		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.6		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	98.1				1.35	
EPA 180.1 Rev. 2.0	Turbidity	100				4.89	
EPA 200.7 Rev. 4.4	Calcium	102					3.10
	Iron	105	102	105			2.04
	Magnesium	102					2.98
	Potassium	101					1.81
	Sodium	101					1.59
	Strontium	103	102	103			0.661
	Tin	105	94.6	103			8.40
	Titanium	103	103	108			4.34
	Vanadium	104	104	108			3.32
	Zinc	105	101	103			2.29
EPA 200.8 Rev. 5.4	Aluminum	98.8	102	102			0.577
	Antimony	98.8	102	102			0.296
	Arsenic	99.2	110	109			0.987
	Barium	102	104	105			0.384
	Beryllium	91.1	97.8	104			6.15
	Boron	104	99.5	106			1.47
	Cadmium	103	101	99.5			0.993
	Chromium	99.9	93.8	93.8			0.0448
	Cobalt	97.8	96.4	96.5			0.0554
	Copper	96.1	96.0	94.9			1.18
	Lead	95.0	97.7	99.7			2.00
	Manganese	101	93.7	93.2			0.503
	Molybdenum	99.6	109	110			0.287
	Nickel	96.7	94.2	95.4			1.21
	Selenium	99.2	106	104			2.14
	Silver	112	104	105			0.775
	Thallium	103	105	108			2.50
EPA 300.0 Rev. 2.1	Chloride	99.5	97.5	94.9		0.0128	
	Sulfate	101	101	102			
EPA 350.1 Rev. 2.0	Ammonia-N	96.4	104	105			1.34
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	103	104			1.51
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101	102			0.962
EPA 365.1 Rev. 2.0	Total-P	105	102	99.4			2.95
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	72.4	64.4	59.5			7.93
	Acetochlor	86.5	87.3	88.9			1.82
	Alachlor	62.6	77.6	88.2			12.9
	Aldrin	59.4	61.9	61.5			0.733
	Alpha-BHC	89.5	91.7	87.1			5.15
	Alpha-Chlordane	83.4	78.3	86.6			10.0
	Ametryn	98.9	103	108			5.07
	Atrazine	79.2	91.4	95.0			2.39
	Atrazine Desethyl	80.2	77.5	80.2			3.45
	Avobenzone	137	71.6	132			59.2
	Azinphos Methyl	120	155	154			0.395
	Azoxystrobin	70.9	86.8	86.0			0.919
	Beta-BHC	90.9	94.6	102			7.27
	Beta-Cyfluthrin	89.7	88.1	102			15.0
	Bifenthrin	73.0	65.4	74.3			12.6
	Bromacil	80.3	98.4	97.4			0.926
	Butylate	41.3	57.2	65.3			13.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Caffeine	112	110	104		4.82
	Carbophenothion	84.8	89.1	83.9		6.08
	Carfentrazone Ethyl	98.3	90.5	77.3		15.7
	Chlorfenapyr	96.2	107	108		0.681
	Chlorothalonil	69.7	92.2	95.8		3.88
	Chlorpyrifos Ethyl	75.5	112	110		2.13
	Chlorpyrifos Methyl	81.2	135	133		1.72
	Cis-Nonachlor	76.2	82.0	85.9		4.63
	Coumaphos	129	194	190		1.91
	Cyanazine	96.9	81.8	86.5		5.53
	Cypermethrin	97.9	110	105		4.17
	Cyprodinil	72.0	63.8	67.6		5.81
	Dacthal	94.1	101	97.0		4.21
	DDD-p,p'	78.7	83.9	74.3		12.1
	DDE-p,p'	82.9	89.4	78.8		12.6
	DDT-p,p'	80.9	81.1	82.2		1.36
	Dechlorane 602	47.1	33.0	60.5		58.8
	Dechlorane 603	112	49.4	92.7		61.0
	Dechlorane Plus	75.3	49.8	64.6		25.8
	Delta-BHC	96.6	110	107		2.50
	Deltamethrin	121	130	114		13.3
	Demeton	49.6	95.9	107		10.9
	Diazinon	82.8	75.3	80.0		5.93
	Dichlobenil	59.6	62.0	70.3		12.6
	Dicofol	76.7	76.1	74.2		2.52
	Dieldrin	79.6	79.0	78.5		0.737
	Difenoconazole	85.4	61.7	70.2		12.8
	Dimethenamid	78.8	81.5	80.6		1.05
	Dimethomorph	100	70.0	83.8		18.0
	Disulfoton	88.8	93.8	104		9.88
	Dithiopyr	73.2	88.1	79.6		10.2
	Endosulfan I	79.9	78.4	79.1		0.910
	Endosulfan II	86.2	91.3	82.0		10.7
	Endosulfan Sulfate	88.3	99.1	86.2		13.9
	Endrin	85.1	91.6	81.0		12.3
	Endrin Aldehyde	80.0	74.2	74.3		0.144
	Endrin Ketone	118	127	118		7.50
	EPTC	39.5	46.5	57.2		20.7
	Esfenvalerate	91.0	103	98.5		4.64
	Ethalfuralin	75.2	73.2	68.2		7.09
	Ethion	105	74.2	60.6		20.2
	Ethoprop	71.2	91.4	85.4		6.80
	Etridiazole	47.2	69.2	83.5		18.8
	Fenamiphos	81.0	95.7	81.1		16.5
	Fenbuconazole	58.9	136	129		5.75
	Fenpropathrin	89.2	86.1	84.7		1.59
	Fipronil	81.5	98.4	96.9		1.52
	Fipronil Desulfinyl	77.3	97.4	95.7		1.62
	Fipronil Sulfide	84.7	86.0	85.4		0.622
	Fipronil Sulfone	85.9	104	103		0.145
	Fluazifop-P-butyl	79.2	92.1	101		8.89
	Fludioxonil	62.6	111	112		0.586
	Flumioxazin	99.0	69.7	77.8		11.1
	Flutolanil	47.6	99.1	94.4		4.83

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Fluxapyroxad	89.9	145	131		9.09
	Fonofos	63.5	97.8	97.9		0.0527
	Gamma-BHC	109	112	122		9.19
	Gamma-Chlordane	77.1	84.5	71.3		17.0
	Heptachlor	81.3	78.1	88.0		12.0
	Heptachlor Epoxide	80.8	74.1	81.6		9.64
	Hexabromobenzene	92.0	66.8	82.5		21.1
	Hexachlorobenzene	48.8	49.0	51.4		4.86
	Hexazinone	72.7	84.4	85.1		0.673
	Imazalil	80.5	102	108		6.08
	Iprodione	56.5	186	183		2.01
	Kepone	90.4	110	107		2.69
	Lambda-Cyhalothrin	79.1	86.3	77.7		10.5
	Loratadine	117	185	198		7.04
	Malathion	105	114	118		3.22
	Metalaxyl	86.9	85.3	84.0		1.61
	Methoprene	72.5	80.4	65.3		20.8
	Methoxychlor	90.7	83.6	80.8		3.47
	Metolachlor	85.9	74.1	85.4		6.16
	Metribuzin	71.3	78.7	86.9		7.52
	Mevinphos	71.6	109	109		0.647
	MGK-264	98.0	105	97.4		7.87
	Mirex	70.1	80.5	66.3		19.3
	Molinate	39.5	62.9	70.9		11.9
	Myclobutanil	56.0	65.6	66.7		1.63
	Naled	24.7	48.4	49.4		1.96
	Napropamide	67.1	89.5	88.4		1.19
	Norflurazon	83.1	85.4	77.3		9.95
	Octinoxate	102	90.9	94.7		4.17
	Oxadiazon	67.0	94.3	92.0		1.32
	Oxybenzone	105	93.7	107		13.2
	Oxychlordane	76.8	81.7	74.7		9.00
	Oxyfluorfen	84.2	78.5	78.0		0.508
	Parathion Ethyl	77.6	84.7	79.3		6.55
	Parathion Methyl	104	171	183		6.60
	PBB-153	110	35.9	75.7		71.2
	PBDE-47	68.8	59.6	77.4		26.1
	PBDE-99	59.1	27.4	55.0		66.9
	PCB-1016	77.9	75.1	80.3		6.76
	PCB-1260	89.2	75.6	73.2		3.25
	Pendimethalin	99.7	64.9	67.5		3.92
	Pentabromotoluene	87.5	80.4	84.1		4.47
	Permethrin	91.0	93.3	90.5		3.05
	Phenothrin	72.9	78.3	70.1		11.0
	Phenytoin	67.8	41.6	35.6		15.7
	Phorate	78.3	76.7	66.5		14.1
	Piperonyl Butoxide	128	117	122		4.37
	Prallethrin	94.2	106	89.6		16.4
	Prodiamine	31.6	81.1	90.3		10.7
	Prometon	60.5	64.0	71.3		4.93
	Prometryn	88.9	73.7	76.6		3.93
	Pronamide	88.7	90.2	94.3		4.36
	Propanil	85.5	91.2	91.8		0.598
	Propargite	86.1	120	110		9.21

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Propiconazole	56.9	126	110		12.1
	Pyraflufen Ethyl	109	84.4	81.4		3.59
	Pyridaben	110	103	107		3.35
	Pyriproxyfen	97.5	82.8	76.4		7.98
	Simazine	86.2	88.9	94.0		2.56
	Stirophos	83.6	46.8	45.6		2.52
	Sulfentrazone	75.2	173	78.4		75.1
	Tau-Fluvalinate	84.1	99.9	93.6		6.47
	Tebuconazole	81.7	116	102		9.84
	Terbufos	85.1	94.6	104		9.19
	Terbutylazine	70.6	88.6	91.4		3.15
	Tetradecachloro-m-terphenyl	100	65.5	80.2		20.2
	Tetramethrin	110	105	110		4.56
	Thiobencarb	87.7	80.8	84.4		4.46
	Trans-Nonachlor	80.1	87.0	75.4		14.3
	Tri-o-cresyl Phosphate	106	83.1	93.6		11.9
	Triadimefon	81.8	69.5	75.6		8.39
	Triclosan Methyl	80.5	80.6	81.2		0.719
	Trifluralin	78.7	71.1	70.4		0.945
	Tris(1-chloro-2-propyl) phosphate (TCPP)	114	88.4	123		28.2
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.2	75.8	92.5		18.6
	Tris(2-chloroethyl) phosphate (TCEP)	88.7	101	84.1		18.5
EPA 8276	Chlordane	100	104	95.4		8.30
	Toxaphene	116	129	117		9.34
EPA 8321B	2,4-D	84.4	103	116		11.2
	2,4,5-T	88.1	100	118		16.4
	3-Hydroxycarbofuran	72.1	59.8	57.4		4.23
	Acesulfame K	130	129	127		1.35
	Acetaminophen	70.1	83.4	91.0		8.68
	Acetamiprid	74.9	71.1	77.1		8.19
	Afidopyropen	62.4	67.7	73.9		8.76
	Aldicarb	75.2	45.8	42.6		7.13
	Aldicarb Sulfone	84.1	62.6	65.3		4.17
	Aldicarb Sulfoxide	90.5	25.6	27.5		7.16
	AMPA	101	71.8	71.9		0.0590
	Bentazon	89.6	51.7	56.2		8.43
	Benzovindiflupyr	108	98.3	109		10.4
	Carbamazepine	88.8	68.4	75.3		6.81
	Carbaryl	73.9	48.9	47.4		3.09
	Carbofuran	78.7	44.5	45.9		3.16
	Clothianidin	96.2	106	114		7.13
	Dinotefuran	103	85.9	88.6		3.01
	Diuron	92.0	61.4	69.4		9.86
	Endothall	108	109	116		6.37
	Fenuron	95.1	59.9	64.5		7.36
	Fluridone	87.1	56.1	62.5		10.9
	Glufosinate	101	96.3	89.3		7.46
	Glyphosate	97.2	74.4	71.6		3.88
	Hydrocodone	101	71.5	77.2		7.67
	Ibuprofen	72.5	71.4	60.7		16.2
	Imazapyr	82.7	75.6	84.8		9.55

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Imidacloprid	85.4	125	137		8.01
	Linuron	91.2	58.9	73.5		22.2
	Mandestrobin	101	86.3	96.4		11.0
	MCPP	94.4	114	120		5.82
	Methiocarb	76.1	60.2	60.5		0.617
	Methomyl	85.3	49.4	50.9		2.86
	Naproxen	82.4	73.8	82.7		11.4
	Oxamyl	89.3	53.7	56.9		5.80
	Primidone	97.4	89.6	103		14.0
	Propoxur	85.0	46.6	44.5		4.53
	Pyraclostrobin	92.2	84.2	88.1		4.62
	Silvex	86.1	117	103		12.4
	Sucralose	113	118	130		8.89
	Thiamethoxam	96.7	92.5	101		8.45
	Tolfenpyrad	62.9	63.0	60.4		4.10
	Triclopyr	92.0	111	128		14.3
SM 2320 B-2011	Total Alkalinity	97.3				
SM 2540 C-2015	TDS	99.6				2.50
SM 2540 D-2015	TSS	92.4				
SM 4500-F- C-2011	Fluoride	99.3	102	103		0.473
SM 5310 B-2011	Organic Carbon	93.5	88.7	89.7		1.07

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2435517
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2435517
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2435550, 2435551
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2435550, 2435551
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2435517
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2435517
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2435518
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2435518
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2435518
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2435518
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2435541
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2435540
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2435541
EPA 8270E	PCBs in water matrices by GC/MS/MS	2435540
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2435540
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2435538
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2435539
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2435517
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2435550, 2435551
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2435517
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2435517
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2435517
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2435518

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	09/08/2023			09/08/2023 14:45	Samantha L Bates	2435517
EPA 180.1 Rev. 2.0	09/08/2023			09/08/2023 13:45	Khloe J Berg	2435517
EPA 200.7 Rev. 4.4	09/08/2023	09/18/2023 13:12	George D Taylor	09/20/2023 15:45	McKinley C Carter	2435550
	09/08/2023	09/18/2023 13:12	George D Taylor	09/20/2023 15:53	McKinley C Carter	2435550
	09/08/2023	09/18/2023 13:12	George D Taylor	09/20/2023 16:01	McKinley C Carter	2435551
	09/08/2023	09/18/2023 13:12	George D Taylor	09/20/2023 16:09	McKinley C Carter	2435551
	09/08/2023	09/18/2023 13:12	George D Taylor	09/22/2023 12:32	Samatha Luckman	2435551
EPA 200.8 Rev. 5.4	09/08/2023	09/18/2023 13:12	George D Taylor	09/19/2023 19:32	Emily M Philpot	2435550
	09/08/2023	09/18/2023 13:12	George D Taylor	09/19/2023 19:42	Emily M Philpot	2435551
	09/08/2023	09/18/2023 13:12	George D Taylor	09/19/2023 21:08	Emily M Philpot	2435550
	09/08/2023	09/18/2023 13:12	George D Taylor	09/19/2023 21:18	Emily M Philpot	2435551
EPA 300.0 Rev. 2.1	09/08/2023			09/13/2023 14:17	James L Waggeberby	2435517
	09/08/2023			09/15/2023 19:19	James L Waggeberby	2435517
EPA 350.1 Rev. 2.0	09/08/2023			09/14/2023 11:26	Khloe J Berg	2435518
EPA 351.2 Rev. 2.0	09/08/2023	09/15/2023 12:19	Simonne.V. Calhoun	09/19/2023 10:48	Samantha L Bates	2435518
EPA 353.2 Rev. 2.0	09/08/2023			09/20/2023 13:04	Anna M. Plaviak	2435518
EPA 365.1 Rev. 2.0	09/08/2023	09/13/2023 18:31	Adam P Silver	09/14/2023 14:34	James L Waggeberby	2435518
EPA 8270E	09/08/2023	09/12/2023 08:00	Fe-Val Siddell	09/13/2023 23:40	Vandana T. Nagar	2435540
	09/08/2023	09/12/2023 08:00	Fe-Val Siddell	09/14/2023 01:52	Lipi Saha	2435540
	09/08/2023	09/13/2023 08:30	Rasheda Ghaffari	09/15/2023 19:11	Julie Wi	2435541
	09/08/2023	09/20/2023 12:30	Fe-Val Siddell	09/21/2023 23:46	Arthur Maknenko	2435541
EPA 8276	09/08/2023	09/12/2023 08:00	Fe-Val Siddell	09/14/2023 14:20	Arthur Maknenko	2435540
EPA 8321B	09/08/2023	09/08/2023 14:00	Tae K Lee	09/09/2023 01:59	Hana Lee	2435539
	09/08/2023	09/08/2023 14:00	Tae K Lee	09/11/2023 23:48	Hana Lee	2435539
	09/08/2023	09/08/2023 14:00	Tae K Lee	09/12/2023 09:50	Hana Lee	2435539
	09/08/2023	09/11/2023 09:00	Hoor Shaik	09/11/2023 22:15	Juyoung Kim	2435539
	09/08/2023	09/12/2023 09:00	Hoor Shaik	09/13/2023 16:47	Juyoung Kim	2435538
SM 2320 B-2011	09/08/2023			09/14/2023 22:46	Dale L. Simmons	2435517
SM 2340 B-2011	09/08/2023			09/20/2023 15:53	McKinley C Carter	2435550
	09/08/2023			09/20/2023 16:09	McKinley C Carter	2435551
SM 2540 C-2015	09/08/2023			09/13/2023 15:46	Yijie Li	2435517
SM 2540 D-2015	09/08/2023			09/13/2023 15:46	Yijie Li	2435517
SM 4500-F- C-2011	09/08/2023			09/14/2023 20:31	Dale L. Simmons	2435517
SM 5310 B-2011	09/08/2023			09/19/2023 13:00	Elise M. Gillis	2435518