

Chemical Analysis Report

SW-DIST-2023-09-06-01

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

Event Description: **Run 3**
Request ID: **RQ-2023-08-28-40**
Customer: **SW-DIST**
Project ID: **SMP**

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

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

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

Date Certified: 29-SEP-2023 12:53

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

Case Narrative

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

Results for the following analytical groups are included in this report: 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: DOWLING LAKE 2

Collection Date/Time: 09/05/2023 09:30

Field ID: G4SW0084

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2434516	DEP SOP: NU-094-1	Color (true)	34		PCU	P434635	
	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P434626	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P434877	
		Sulfate	4.4		mg SO4/L	P434880	
	SM 2320 B-2011	Total Alkalinity	10		mg CaCO3/L	P434914	
	SM 2540 C-2015	TDS	66		mg/L	P435122	
	SM 2540 D-2015	TSS	5	I	mg/L	P435046	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P434919	
2434517	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P435070	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P435370	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P435086	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P434894	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P434971	

Ref. Method and Comment:

DEP SOP: NU-094-1: Batch relative percent difference is unavailable because of analytical difficulties.

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

Sample Location: MOUNTAIN LAKE AT CENTER

Collection Date/Time: 09/05/2023 10:15

Field ID: G4SW0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2434511	DEP SOP: NU-094-1	Color (true)	43		PCU	P434635	
	EPA 180.1 Rev. 2.0	Turbidity	6.7		NTU	P434626	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P434876	
		Sulfate	1.6		mg SO4/L	P434879	
	SM 2320 B-2011	Total Alkalinity	7.8		mg CaCO3/L	P434707	
	SM 2540 C-2015	TDS	78		mg/L	P435122	
	SM 2540 D-2015	TSS	9	I	mg/L	P435046	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P434710	
2434512	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P434684	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P435275	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P435087	
	EPA 365.1 Rev. 2.0	Total-P	0.083		mg P/L	P434704	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P435117	
2434513	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P434622	

Ref. Method and Comment:

DEP SOP: NU-094-1: Batch relative percent difference is unavailable because of analytical difficulties.

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

Sample Location: IRVIN LAKE

Collection Date/Time: 09/05/2023 10:50

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2434514	DEP SOP: NU-094-1	Color (true)	47		PCU	P434635	
	EPA 180.1 Rev. 2.0	Turbidity	8.3		NTU	P434626	
	EPA 300.0 Rev. 2.1	Chloride	6.5		mg Cl/L	P434877	
		Sulfate	1.2		mg SO4/L	P434880	
	SM 2320 B-2011	Total Alkalinity	49		mg CaCO3/L	P434914	
	SM 2540 C-2015	TDS	95		mg/L	P435122	
	SM 2540 D-2015	TSS	11	I	mg/L	P435046	
	SM 4500-F- C-2011	Fluoride	0.10		mg F/L	P434919	
2434515	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P435070	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P435370	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P435086	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P434704	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P434971	
2434547	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	
2434548		2,4-D	0.016		ug/L	P434679	
		Acesulfame K	0.19	I	ug/L	P434699	MS
		2,4,5-T	0.0040	U	ug/L	P434679	
		AMPA	0.16	I	ug/L	P434699	
		Acetaminophen	0.0080	U	ug/L	P434679	
		Endothall	0.25	U	ug/L	P434699	
		Acetamiprid	0.0020	U	ug/L	P434679	MS, RPD
		Glufosinate	0.10	U	ug/L	P434699	
		Glyphosate	0.21	I	ug/L	P434699	
		Afidopyropen	0.0020	U	ug/L	P434679	MS, RPD
		Bentazon	8.0E-04	U	ug/L	P434679	
		Sucralose	0.081		ug/L	P434699	
		Benzovindiflupyr	0.0020	U	ug/L	P434679	
		Carbamazepine	8.0E-04	U	ug/L	P434679	
		Clothianidin	0.0020	U	ug/L	P434679	
		Dinotefuran	0.0020	U	ug/L	P434679	
		Diuron	0.0020	U	ug/L	P434679	
		Fenuron	0.032	U	ug/L	P434679	
		Fluridone	0.0050		ug/L	P434679	
		Imazapyr	0.066		ug/L	P434679	
		Hydrocodone	0.0020	U	ug/L	P434679	

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2434548	EPA 8321B	Ibuprofen	0.080	U	ug/L	P434679	
		Imidacloprid	0.0020	U	ug/L	P434679	
		Linuron	0.0040	U	ug/L	P434679	
		Mandestrobin	0.0020	U	ug/L	P434679	
		MCP	0.0020	U	ug/L	P434679	
		Naproxen	0.0080	U	ug/L	P434679	
		Primidone	0.0040	U	ug/L	P434679	
		Pyraclostrobin	0.0020	U	ug/L	P434679	
		Silvex	0.0040	U	ug/L	P434679	
		Thiamethoxam	0.0020	U	ug/L	P434679	
		Tolfenpyrad	0.0020	U	ug/L	P434679	
		Triclopyr	0.0040	U	ug/L	P434679	
2434549	EPA 8270E	Aldrin	0.69	U	ng/L	P434680	
		Alpha-BHC	0.11	U	ng/L	P434680	
		Alpha-Chlordane	0.21	U	ng/L	P434680	
		PCB-1016	2.1	U	ng/L	P434680	
		Beta-BHC	0.11	U	ng/L	P434680	
		PCB-1221	2.1	U	ng/L	P434680	
		Beta-Cyfluthrin	1.3	U	ng/L	P434680	
		PCB-1232	2.1	U	ng/L	P434680	
		Bifenthrin	0.53	U	ng/L	P434680	
		PCB-1242	2.1	U	ng/L	P434680	
		PCB-1248	2.1	U	ng/L	P434680	
		Chlorothalonil	3.8	U	ng/L	P434680	
		PCB-1254	2.1	U	ng/L	P434680	
		Cis-Nonachlor	0.21	U	ng/L	P434680	
		PCB-1260	2.1	U	ng/L	P434680	
		Cypermethrin	1.6	U	ng/L	P434680	
		Dacthal	0.16	U	ng/L	P434680	
		DDD-p,p'	0.27	U	ng/L	P434680	
		DDE-p,p'	0.21	U	ng/L	P434680	
		DDT-p,p'	0.85	U	ng/L	P434680	
		Delta-BHC	0.43	U	ng/L	P434680	
		Deltamethrin	1.3	U	ng/L	P434680	
		Dichlobenil	0.27	U	ng/L	P434680	
		Dicofol	1.3	U	ng/L	P434680	
		Dieldrin	0.43	U	ng/L	P434680	
		Endosulfan I	0.43	U	ng/L	P434680	
		Endosulfan II	0.96	U	ng/L	P434680	
		Endosulfan Sulfate	0.32	U	ng/L	P434680	
		Endrin	0.96	U	ng/L	P434680	
		Endrin Aldehyde	0.80	U	ng/L	P434680	
		Endrin Ketone	0.43	U	ng/L	P434680	
		Esfenvalerate	0.80	U	ng/L	P434680	
		Ethalfuralin	0.16	U	ng/L	P434680	

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2434549	EPA 8270E	Fenpropathrin	0.27	U	ng/L	P434680	
		Gamma-BHC	1.2		ng/L	P434680	
		Gamma-Chlordane	0.22	I	ng/L	P434680	
		Heptachlor	0.21	U	ng/L	P434680	
		Heptachlor Epoxide	0.27	U	ng/L	P434680	
		Hexachlorobenzene**	1.1	U	ng/L	P434680	
		Kepone	14	UJ	ng/L	P434680	CCV
		Lambda-Cyhalothrin	0.80	U	ng/L	P434680	
		Methoprene	0.80	U	ng/L	P434680	
		Methoxychlor	0.32	U	ng/L	P434680	
		MGK-264	0.63	I	ng/L	P434680	
		Mirex	0.37	U	ng/L	P434680	
		Oxychlordane	0.32	U	ng/L	P434680	
		Permethrin	1.7	U	ng/L	P434680	
		Phenothrin	0.96	U	ng/L	P434680	
		Piperonyl Butoxide	0.16	U	ng/L	P434680	
		Prallethrin	2.1	U	ng/L	P434680	
		Tau-Fluvalinate	0.27	U	ng/L	P434680	
		Tetramethrin	0.80	U	ng/L	P434680	
		Trans-Nonachlor	0.21	U	ng/L	P434680	
		Triclosan Methyl	0.16	U	ng/L	P434680	
		Trifluralin	0.21	U	ng/L	P434680	
		Chlordane	2.1	U	ng/L	P434680	
		Toxaphene	16	U	ng/L	P434680	
2434550	EPA 8270E	Oxybenzone**	11	U	ng/L	P434593	
		Acetochlor	0.21	U	ng/L	P434593	
		Octinoxate**	160	U	ng/L	P434593	
		Alachlor	0.42	U	ng/L	P434593	
		Avobenzone**	110	U	ng/L	P434593	
		Ametryn	1.2	U	ng/L	P434593	
		Atrazine	13		ng/L	P434593	
		PBDE-47**	4.2	U	ng/L	P434593	
		Atrazine Desethyl	2.7	I	ng/L	P434593	
		PBDE-99**	5.3	U	ng/L	P434593	
		Azinphos Methyl	3.2	U	ng/L	P434593	
		Tri-o-cresyl Phosphate**	6.4	U	ng/L	P434593	
		Azoxystrobin	0.42	U	ng/L	P434593	
		Bromacil	0.64	U	ng/L	P434593	
		2-Ethylhexyl	13	U	ng/L	P434593	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P434593	
		Dechlorane Plus**	32	UJ	ng/L	P434593	MS
		Caffeine**	12	I	ng/L	P434593	
		Carbophenothion	0.53	U	ng/L	P434593	
		Carfentrazone Ethyl	0.16	UJ	ng/L	P434593	RPD

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2434550	EPA 8270E	Chlorfenapyr	0.32	U	ng/L	P434593	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P434593	
		Chlorpyrifos Methyl	0.11	U	ng/L	P434593	
		Coumaphos	1.1	U	ng/L	P434593	
		Cyanazine	5.3	U	ng/L	P434593	
		Cyprodinil	0.21	U	ng/L	P434593	
		Demeton	3.7	U	ng/L	P434593	
		Diazinon	0.13	U	ng/L	P434593	
		Difenoconazole	0.64	U	ng/L	P434593	
		Dimethenamid	0.11	U	ng/L	P434593	
		Dimethomorph	0.32	U	ng/L	P434593	
		Disulfoton	0.64	U	ng/L	P434593	
		Dithiopyr	1.1	U	ng/L	P434593	
		EPTC	0.53	U	ng/L	P434593	
		Ethion	0.32	U	ng/L	P434593	
		Ethoprop	0.13	U	ng/L	P434593	
		Etridiazole	0.11	U	ng/L	P434593	
		Fenamiphos	0.48	UJ	ng/L	P434593	LCS
		Fenbuconazole	0.53	U	ng/L	P434593	
		Fipronil	0.75	I	ng/L	P434593	
		Fipronil Desulfinyl**	0.27	I	ng/L	P434593	
		Fipronil Sulfide	0.35	I	ng/L	P434593	
		Fipronil Sulfone	0.88		ng/L	P434593	
		Fluazifop-P-butyl	0.11	U	ng/L	P434593	
		Fludioxonil	0.11	U	ng/L	P434593	
		Flumioxazin	3.2	U	ng/L	P434593	
		Flutolanil	0.11	U	ng/L	P434593	
		Fluxapyroxad	0.27	U	ng/L	P434593	
		Fonofos	0.16	U	ng/L	P434593	
		Hexazinone	0.53	U	ng/L	P434593	
		Imazalil	0.69	U	ng/L	P434593	
		Iprodione	0.53	U	ng/L	P434593	
		Loratadine**	0.32	U	ng/L	P434593	
		Malathion	0.37	UJ	ng/L	P434593	LCS
		Metalaxyl	0.53	U	ng/L	P434593	
		Metolachlor	0.80	U	ng/L	P434593	
		Metribuzin	0.42	U	ng/L	P434593	
		Mevinphos	1.1	UJ	ng/L	P434593	CCV
		Molinate	0.27	U	ng/L	P434593	
		Myclobutanil	0.37	U	ng/L	P434593	
		Naled	2.7	U	ng/L	P434593	
		Napropamide	0.74	U	ng/L	P434593	
		Norflurazon	1.1	U	ng/L	P434593	
		Oxadiazon	6.7		ng/L	P434593	
		Oxyfluorfen	0.21	U	ng/L	P434593	

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2434550	EPA 8270E	Parathion Ethyl	0.16	U	ng/L	P434593	
		Parathion Methyl	0.21	U	ng/L	P434593	
		Pendimethalin	0.80	U	ng/L	P434593	
		Phenytol**	5.6	U	ng/L	P434593	
		Phorate	0.27	U	ng/L	P434593	
		Prodiatamine	0.21	UJ	ng/L	P434593	LCS
		Prometon	3.2	U	ng/L	P434593	
		Prometryn	0.37	U	ng/L	P434593	
		Pronamide	0.11	U	ng/L	P434593	
		Propanil	0.11	U	ng/L	P434593	
		Propargite	0.85	U	ng/L	P434593	
		Propiconazole	0.64	U	ng/L	P434593	
		Pyraflufen Ethyl	0.32	U	ng/L	P434593	
		Pyridaben	1.5	U	ng/L	P434593	
		Pyriproxyfen	0.27	U	ng/L	P434593	
		Simazine	0.27	U	ng/L	P434593	
		Stirophos	0.42	U	ng/L	P434593	
		Sulfentrazone	1.5	UJ	ng/L	P434593	CCV
		Tebuconazole	1.5	U	ng/L	P434593	
		Terbufos	0.21	U	ng/L	P434593	
		Terbuthylazine	0.21	U	ng/L	P434593	
		Thiobencarb	0.53	U	ng/L	P434593	
		Triadimefon	0.16	U	ng/L	P434593	

Ref. Method and Comment:

DEP SOP: NU-094-1: Batch relative percent difference is unavailable because of analytical difficulties.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

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

EPA 8270E: MS accuracy for oxadiazon not assessed due to high content of this parameter 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: P434635

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434626

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434876

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434877

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434879

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434880

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434684

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435070

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435275

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

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Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435370

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435086

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435087

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434704

Component	Result	Code	Units
Total-P	0.010	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434894

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434622

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

Reference Method: EPA 8270E
Batch ID: P434593

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	0.20	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
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L

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Reference Method: EPA 8270E

Batch ID: P434593

Component	Result	Code	Units
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
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	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

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Reference Method: EPA 8270E

Batch ID: P434593

Component	Result	Code	Units
Fipronil	0.20	U	ng/L
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
Octinoxate	150	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L

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Reference Method: EPA 8270E

Batch ID: P434593

Component	Result	Code	Units
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	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	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

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Reference Method: EPA 8270E

Batch ID: P434593

Component	Result	Code	Units
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/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
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

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Reference Method: EPA 8270E

Batch ID: P434680

Component	Result	Code	Units
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
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

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Reference Method: EPA 8270E

Batch ID: P434680

Component	Result	Code	Units
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 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: P434679

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

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Reference Method: EPA 8321B

Batch ID: P434679

Component	Result	Code	Units
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: 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: P434699

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: SM 2320 B-2011

Batch ID: P434707

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

Reference Method: SM 2320 B-2011

Batch ID: P434914

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

Reference Method: SM 2540 C-2015

Batch ID: P435122

Component	Result	Code	Units
TDS	15	U	mg/L

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Reference Method: SM 2540 D-2015
Batch ID: P435046

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P434710

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P434919

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P434971

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

Reference Method: SM 5310 B-2011
Batch ID: P435117

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: P434635

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434626

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	94.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434877

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434879

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	91.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434684

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435070

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435275

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435370

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435086

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435087

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434704

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434894

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434622

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

Reference Method: EPA 8270E
Batch ID: P434593

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.4		P	42 - 162
Acetochlor	78.4		P	69 - 123
Alachlor	65.5		P	65 - 118
Ametryn	89.2		P	58 - 141
Atrazine	86.4		P	73 - 118
Atrazine Desethyl	80.2		P	32 - 125
Avobenzone	137		P	40 - 203
Azinphos Methyl	121		P	36 - 197
Azoxystrobin	92.7		P	58 - 226
Bromacil	108		P	48 - 120
Butylate	69.0		P	27 - 85.0
Caffeine	132		P	40 - 137
Carbophenothion	82.3		P	54 - 132
Carfentrazone Ethyl	80.9		P	60 - 142
Chlorfenapyr	83.6		P	53 - 117
Chlorpyrifos Ethyl	101		P	59 - 116

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Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434593

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	87.4		P	66 - 119
Coumaphos	81.5		P	11 - 234
Cyanazine	110		P	61 - 248
Cyprodinil	80.1		P	50 - 147
Dechlorane Plus	77.7		P	47 - 182
Demeton	62.4		P	30 - 138
Diazinon	89.3		P	67 - 126
Difenoconazole	113		P	38 - 205
Dimethenamid	71.2		P	57 - 111
Dimethomorph	195		P	16 - 212
Disulfoton	102		P	46 - 126
Dithiopyr	79.2		P	62 - 115
EPTC	55.6		P	28 - 80.0
Ethion	47.4		P	24 - 122
Ethoprop	79.8		P	62 - 113
Etridiazole	60.3		P	28 - 92.0
Fenamiphos	56.4		F	57 - 128
Fenbuconazole	71.5		P	52 - 155
Fipronil	87.8		P	63 - 130
Fipronil Desulfinyl	94.2		P	61 - 130
Fipronil Sulfide	74.0		P	56 - 117
Fipronil Sulfone	73.1		P	52 - 118
Fluazifop-P-butyl	68.0		P	61 - 128
Fludioxonil	64.0		P	59 - 129
Flumioxazin	138		P	30 - 250
Flutolanil	62.0		P	53 - 127
Fluxapyroxad	63.1		P	42 - 132
Fonofos	87.8		P	61 - 110
Hexazinone	78.5		P	46 - 139
Imazalil	131		P	40 - 139
Iprodione	80.2		P	40 - 146
Loratadine	92.5		P	10 - 224
Malathion	55.1		F	61 - 135
Metaxyl	69.5		P	58 - 121
Metolachlor	75.0		P	64 - 118
Metribuzin	50.4		P	45 - 245
Mevinphos	86.4		P	49 - 118
Molinate	60.4		P	42 - 92.0
Myclobutanil	75.7		P	55 - 127
Naled	51.1		P	10 - 114
Napropamide	72.1		P	39 - 121
Norflurazon	58.7		P	55 - 129
Octinoxate	93.7		P	26 - 166
Oxadiazon	67.0		P	54 - 115
Oxybenzone	104		P	49 - 135
Oxyfluorfen	85.0		P	64 - 139
Parathion Ethyl	87.2		P	70 - 111
Parathion Methyl	99.5		P	76 - 136
PBDE-47	73.0		P	41 - 148
PBDE-99	58.2		P	38 - 147
Pendimethalin	62.5		P	52 - 118
Phenytol	48.3		P	10 - 162

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P434593

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	83.3		P	40 - 122
Prodiamine	24.6		F	26 - 141
Prometon	111		P	54 - 122
Prometryn	86.6		P	61 - 128
Pronamide	92.7		P	72 - 121
Propanil	114		P	45 - 144
Propargite	56.0		P	10 - 199
Propiconazole	67.9		P	56 - 127
Pyraflufen Ethyl	81.8		P	56 - 140
Pyridaben	96.6		P	26 - 211
Pyriproxyfen	75.2		P	33 - 194
Simazine	99.0		P	67 - 121
Stirophos	28.5		P	20 - 142
Sulfentrazone	77.4		P	21 - 144
Tebuconazole	42.2		P	10 - 122
Terbufos	106		P	60 - 129
Terbutylazine	72.3		P	69 - 113
Thiobencarb	80.4		P	51 - 120
Tri-o-cresyl Phosphate	106		P	49 - 150
Triadimefon	72.1		P	56 - 114

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
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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434680

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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 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: P434679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	97.9		P	40 - 150
2,4,5-T	86.5		P	40 - 150
Acetaminophen	74.2		P	30 - 150
Acetamiprid	95.2		P	40 - 150
Afidopyropen	95.8		P	30 - 150
Bentazon	102		P	30 - 150
Benzovindiflupyr	89.1		P	40 - 150
Carbamazepine	91.5		P	40 - 150
Clothianidin	101		P	40 - 150
Dinotefuran	103		P	40 - 150
Diuron	86.0		P	40 - 150
Fenuron	99.3		P	40 - 150
Fluridone	92.3		P	40 - 150
Hydrocodone	102		P	40 - 150
Ibuprofen	86.8		P	40 - 150
Imazapyr	88.6		P	40 - 150
Imidacloprid	92.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P434679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Linuron	89.0		P	40 - 150
Mandestrobin	109		P	40 - 150
MCPPP	98.2		P	40 - 150
Naproxen	72.7		P	40 - 150
Primidone	96.4		P	40 - 150
Pyraclostrobin	89.3		P	40 - 150
Silvex	90.7		P	40 - 150
Thiamethoxam	99.5		P	40 - 150
Tolfenpyrad	55.0		P	30 - 150
Triclopyr	91.6		P	40 - 150

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
Propoxur	85.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434699

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	114		P	40 - 150
AMPA	128		P	40 - 150
Endothall	113		P	40 - 150
Glufosinate	99.5		P	40 - 150
Glyphosate	88.7		P	40 - 150
Sucralose	114		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P434707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.8		P	92 - 105

Reference Method: SM 2320 B-2011

Batch ID: P434914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.8		P	92 - 105

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P435122

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

Reference Method: SM 2540 D-2015
Batch ID: P435046

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	98.9		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P434710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P434919

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P434971

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P435117

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434257	Chloride	97.4		P	90 - 110
2434511	Chloride	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434554	Chloride	110		P	90 - 110
2434783	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434879

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434257	Sulfate	94.0		P	90 - 110
2434511	Sulfate	91.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434880

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434554	Sulfate	99.6		P	90 - 110
2434783	Sulfate	96.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434684

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434214	Ammonia-N	97.2	99.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435070

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435403	Ammonia-N	98.2	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435275

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434704	Kjeldahl Nitrogen	95.6	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435370

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434876	Kjeldahl Nitrogen	96.5	98.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435086

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P435086

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434515	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P435087

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434444	NO2NO3-N	94.5	95.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P434704

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434388	Total-P	97.3	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P434894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434517	Total-P	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P434622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434513	O-Phosphate-P	99.6	99.9	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P434593

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434550	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.5	74.6	P/P	26 - 165
2434550	Acetochlor	88.2	86.8	P/P	67 - 124
2434550	Alachlor	104	86.0	P/P	60 - 120
2434550	Ametryn	85.9	93.8	P/P	54 - 216
2434550	Atrazine	102	96.5	P/P	66 - 128
2434550	Atrazine Desethyl	58.2	62.6	P/P	15 - 122
2434550	Avobenzene	120	128	P/P	37 - 178
2434550	Azinphos Methyl	190	165	P/P	40 - 292
2434550	Azoxystrobin	88.9	86.1	P/P	35 - 220
2434550	Bromacil	76.9	65.1	P/P	45 - 127
2434550	Butylate	64.2	54.8	P/P	20 - 83.0
2434550	Caffeine	99.7	106	P/P	10 - 194
2434550	Carbophenothion	94.5	85.2	P/P	57 - 127
2434550	Carfentrazone Ethyl	105	74.2	P/P	51 - 141
2434550	Chlorfenapyr	86.6	72.4	P/P	46 - 111
2434550	Chlorpyrifos Ethyl	112	96.5	P/P	52 - 120
2434550	Chlorpyrifos Methyl	116	95.8	P/P	63 - 119
2434550	Coumaphos	166	129	P/P	10 - 228
2434550	Cyanazine	123	103	P/P	59 - 241
2434550	Cyprodinil	79.0	68.6	P/P	47 - 146
2434550	Dechlorane Plus	56.5	45.6	P/F	50 - 150
2434550	Demeton	123	113	P/P	40 - 136

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P434593

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434550	Diazinon	91.2	82.8	P/P	69 - 132
2434550	Difenoconazole	83.5	62.9	P/P	57 - 258
2434550	Dimethenamid	89.8	81.3	P/P	54 - 110
2434550	Dimethomorph	93.6	97.7	P/P	28 - 210
2434550	Disulfoton	88.0	80.4	P/P	43 - 133
2434550	Dithiopyr	77.1	64.9	P/P	39 - 116
2434550	EPTC	58.0	53.3	P/P	20 - 78.0
2434550	Ethion	70.1	72.5	P/P	17 - 119
2434550	Ethoprop	88.4	87.7	P/P	66 - 120
2434550	Etridiazole	52.9	47.0	P/P	28 - 96.0
2434550	Fenamiphos	75.1	71.7	P/P	41 - 126
2434550	Fenbuconazole	111	79.8	P/P	42 - 169
2434550	Fipronil	95.3	74.1	P/P	61 - 132
2434550	Fipronil Desulfinyf	84.9	60.5	P/P	56 - 132
2434550	Fipronil Sulfide	79.7	66.6	P/P	48 - 119
2434550	Fipronil Sulfone	99.4	86.6	P/P	42 - 131
2434550	Fluazifop-P-butyl	93.3	71.3	P/P	53 - 131
2434550	Fludioxonil	84.1	63.9	P/P	56 - 127
2434550	Flumioxazin	170	137	P/P	19 - 300
2434550	Flutolanil	61.1	51.8	P/P	41 - 127
2434550	Fluxapyroxad	126	114	P/P	42 - 172
2434550	Fonofos	90.1	83.2	P/P	59 - 113
2434550	Hexazinone	98.2	84.8	P/P	66 - 122
2434550	Imazalil	92.0	81.7	P/P	21 - 283
2434550	Iprodione	91.4	72.9	P/P	43 - 150
2434550	Loratadine	161	165	P/P	23 - 201
2434550	Malathion	134	118	P/P	58 - 136
2434550	Metalaxyl	77.6	83.7	P/P	55 - 120
2434550	Metolachlor	82.6	75.3	P/P	57 - 121
2434550	Metribuzin	58.1	65.6	P/P	58 - 294
2434550	Mevinphos	88.4	94.5	P/P	50 - 126
2434550	Molinate	87.7	65.6	P/P	42 - 93.0
2434550	Myclobutanil	85.0	80.4	P/P	55 - 125
2434550	Naled	56.1	57.8	P/P	18 - 200
2434550	Napropamide	81.1	60.0	P/P	39 - 110
2434550	Norflurazon	65.1	48.5	P/P	48 - 128
2434550	Octinoxate	90.5	88.5	P/P	21 - 159
2434550	Oxybenzone	104	97.8	P/P	41 - 142
2434550	Oxyfluorfen	108	102	P/P	64 - 153
2434550	Parathion Ethyl	89.7	81.8	P/P	69 - 114
2434550	Parathion Methyl	130	101	P/P	79 - 139
2434550	PBDE-47	71.6	74.6	P/P	27 - 144
2434550	PBDE-99	58.0	55.9	P/P	18 - 150
2434550	Pendimethalin	71.3	76.3	P/P	50 - 139
2434550	Phenytoin	53.6	50.0	P/P	10 - 146
2434550	Phorate	97.2	115	P/P	54 - 161
2434550	Prodiamine	52.4	52.0	P/P	30 - 161
2434550	Prometon	88.2	76.8	P/P	45 - 134
2434550	Prometryn	72.1	74.2	P/P	45 - 137
2434550	Pronamide	98.5	95.6	P/P	65 - 133
2434550	Propanil	72.0	73.1	P/P	49 - 142
2434550	Propargite	101	84.3	P/P	10 - 203

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434593

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434550	Propiconazole	123	108	P/P	38 - 146
2434550	Pyraflufen Ethyl	126	100	P/P	34 - 153
2434550	Pyridaben	152	144	P/P	12 - 192
2434550	Pyriproxyfen	94.5	88.9	P/P	33 - 180
2434550	Simazine	96.7	102	P/P	51 - 157
2434550	Stirophos	83.7	57.4	P/P	10 - 128
2434550	Sulfentrazone	88.9	77.4	P/P	53 - 186
2434550	Tebuconazole	109	76.4	P/P	10 - 133
2434550	Terbufos	86.9	82.5	P/P	65 - 139
2434550	Terbuthylazine	85.8	78.5	P/P	66 - 117
2434550	Thiobencarb	71.9	73.7	P/P	51 - 119
2434550	Tri-o-cresyl Phosphate	105	102	P/P	31 - 144
2434550	Triadimefon	82.4	69.7	P/P	48 - 119

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 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: P434679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434123	2,4,5-T	110	127	P/P	40 - 150
2434123	Acetaminophen	80.3	81.9	P/P	30 - 150
2434123	Acetamiprid	15.3	48.3	F/P	40 - 150
2434123	Afidopyropen	22.2	55.3	F/P	30 - 150
2434123	Bentazon	47.8	47.7	P/P	30 - 150
2434123	Benzovindiflupyr	78.9	78.2	P/P	40 - 150
2434123	Carbamazepine	53.3	54.0	P/P	40 - 150
2434123	Clothianidin	90.2	93.4	P/P	40 - 150
2434123	Dinotefuran	69.9	72.5	P/P	40 - 150
2434123	Diuron	41.6	46.3	P/P	40 - 150
2434123	Fenuron	54.0	54.7	P/P	40 - 150
2434123	Fluridone	41.6	45.0	P/P	40 - 150
2434123	Hydrocodone	67.2	66.7	P/P	40 - 150
2434123	Ibuprofen	60.7	60.8	P/P	40 - 150
2434123	Imazapyr	79.2	78.7	P/P	40 - 150
2434123	Imidacloprid	110	115	P/P	40 - 150
2434123	Linuron	51.7	53.7	P/P	40 - 150
2434123	Mandestrobin	61.4	70.1	P/P	40 - 150
2434123	MCCP	118	121	P/P	40 - 150
2434123	Naproxen	81.6	91.5	P/P	40 - 150
2434123	Primidone	83.2	88.2	P/P	40 - 150
2434123	Pyraclostrobin	74.4	76.3	P/P	40 - 150
2434123	Silvex	111	116	P/P	40 - 150
2434123	Thiamethoxam	77.9	81.8	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P434679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434123	Tolfenpyrad	60.1	52.7	P/P	30 - 150
2434123	Triclopyr	113	124	P/P	40 - 150

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: P434699

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434123	Acesulfame K	152	155	F/F	40 - 150
2434123	AMPA	85.3	82.7	P/P	40 - 150
2434123	Endothall	134	134	P/P	40 - 150
2434123	Glufosinate	107	116	P/P	40 - 150
2434123	Glyphosate	132	130	P/P	40 - 150
2434123	Sucralose	123	122	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P434710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434064	Fluoride	99.2	99.8	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P434919

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435219	Fluoride	98.7	99.4	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P434971

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2434601	Organic Carbon	95.0	96.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P435117

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435421	Organic Carbon	94.6	95.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434626

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434379	Turbidity	8.28	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434257	Chloride	1.43	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434554	Chloride	0.0834	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434879

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434257	Sulfate	1.55	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434554	Sulfate	0.189	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434684

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434214	Ammonia-N	1.26	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435070

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435403	Ammonia-N	0.156	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435275

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434704	Kjeldahl Nitrogen	1.92	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P435370

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434876	Kjeldahl Nitrogen	1.32	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P435086

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434515	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P435087

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434444	NO2NO3-N	1.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P434704

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434388	Total-P	0.370	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P434894

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434517	Total-P	0.360	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P434622

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434513	O-Phosphate-P	0.301	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P434593

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434550	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	8.88	Spike	P	0 - 37
2434550	Acetochlor	1.56	Spike	P	0 - 28
2434550	Alachlor	18.6	Spike	P	0 - 30
2434550	Ametryn	8.85	Spike	P	0 - 32
2434550	Atrazine	1.84	Spike	P	0 - 41
2434550	Atrazine Desethyl	6.29	Spike	P	0 - 36
2434550	Avobenzene	6.69	Spike	P	0 - 36
2434550	Azinphos Methyl	14.2	Spike	P	0 - 75
2434550	Azoxystrobin	3.23	Spike	P	0 - 39

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P434593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434550	Bromacil	16.7	Spike	P	0 - 33
2434550	Butylate	15.7	Spike	P	0 - 44
2434550	Caffeine	4.81	Spike	P	0 - 74
2434550	Carbophenothion	10.3	Spike	P	0 - 25
2434550	Carfentrazone Ethyl	34.5	Spike	F	0 - 27
2434550	Chlorfenapyr	17.9	Spike	P	0 - 24
2434550	Chlorpyrifos Ethyl	15.1	Spike	P	0 - 26
2434550	Chlorpyrifos Methyl	19.5	Spike	P	0 - 26
2434550	Coumaphos	24.6	Spike	P	0 - 28
2434550	Cyanazine	17.1	Spike	P	0 - 48
2434550	Cyprodinil	14.1	Spike	P	0 - 29
2434550	Dechlorane Plus	21.4	Spike	P	0 - 30
2434550	Demeton	8.67	Spike	P	0 - 33
2434550	Diazinon	9.74	Spike	P	0 - 29
2434550	Difenoconazole	28.1	Spike	P	0 - 34
2434550	Dimethenamid	9.90	Spike	P	0 - 39
2434550	Dimethomorph	4.23	Spike	P	0 - 51
2434550	Disulfoton	9.05	Spike	P	0 - 30
2434550	Dithiopyr	17.2	Spike	P	0 - 26
2434550	EPTC	8.40	Spike	P	0 - 43
2434550	Ethion	3.45	Spike	P	0 - 79
2434550	Ethoprop	0.870	Spike	P	0 - 29
2434550	Etridiazole	11.8	Spike	P	0 - 33
2434550	Fenamiphos	4.66	Spike	P	0 - 40
2434550	Fenbuconazole	32.8	Spike	P	0 - 74
2434550	Fipronil	22.2	Spike	P	0 - 29
2434550	Fipronil Desulfinyl	30.3	Spike	P	0 - 32
2434550	Fipronil Sulfide	15.7	Spike	P	0 - 30
2434550	Fipronil Sulfone	10.8	Spike	P	0 - 33
2434550	Fluazifop-P-butyl	26.8	Spike	P	0 - 38
2434550	Fludioxonil	27.3	Spike	P	0 - 29
2434550	Flumioxazin	21.3	Spike	P	0 - 51
2434550	Flutolanil	16.6	Spike	P	0 - 25
2434550	Fluxapyroxad	10.1	Spike	P	0 - 45
2434550	Fonofos	7.97	Spike	P	0 - 27
2434550	Hexazinone	14.7	Spike	P	0 - 30
2434550	Imazalil	11.9	Spike	P	0 - 100
2434550	Iprodione	22.5	Spike	P	0 - 33
2434550	Loratadine	2.29	Spike	P	0 - 56
2434550	Malathion	13.2	Spike	P	0 - 37
2434550	Metalaxyl	7.54	Spike	P	0 - 40
2434550	Metolachlor	9.18	Spike	P	0 - 29
2434550	Metribuzin	12.0	Spike	P	0 - 45
2434550	Mevinphos	6.69	Spike	P	0 - 29
2434550	Molinate	28.8	Spike	P	0 - 33
2434550	Myclobutanil	5.49	Spike	P	0 - 26
2434550	Naled	2.99	Spike	P	0 - 37
2434550	Napropamide	29.9	Spike	P	0 - 44
2434550	Norflurazon	29.3	Spike	P	0 - 30
2434550	Octinoxate	2.29	Spike	P	0 - 45
2434550	Oxadiazon	11.0	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P434593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434550	Oxybenzone	5.88	Spike	P	0 - 46
2434550	Oxyfluorfen	5.69	Spike	P	0 - 28
2434550	Parathion Ethyl	9.29	Spike	P	0 - 31
2434550	Parathion Methyl	25.0	Spike	P	0 - 29
2434550	PBDE-47	4.12	Spike	P	0 - 36
2434550	PBDE-99	3.56	Spike	P	0 - 40
2434550	Pendimethalin	6.84	Spike	P	0 - 33
2434550	Phenytoin	6.97	Spike	P	0 - 100
2434550	Phorate	17.0	Spike	P	0 - 36
2434550	Prodiamine	0.772	Spike	P	0 - 71
2434550	Prometon	13.7	Spike	P	0 - 36
2434550	Prometryn	2.81	Spike	P	0 - 28
2434550	Pronamide	2.98	Spike	P	0 - 24
2434550	Propanil	1.58	Spike	P	0 - 28
2434550	Propargite	17.8	Spike	P	0 - 43
2434550	Propiconazole	13.1	Spike	P	0 - 33
2434550	Pyraflufen Ethyl	23.2	Spike	P	0 - 29
2434550	Pyridaben	5.57	Spike	P	0 - 30
2434550	Pyriproxyfen	6.11	Spike	P	0 - 79
2434550	Simazine	4.87	Spike	P	0 - 29
2434550	Stirophos	37.3	Spike	P	0 - 61
2434550	Sulfentrazone	13.8	Spike	P	0 - 33
2434550	Tebuconazole	34.7	Spike	P	0 - 69
2434550	Terbufos	5.19	Spike	P	0 - 29
2434550	Terbuthylazine	8.94	Spike	P	0 - 32
2434550	Thiobencarb	2.56	Spike	P	0 - 26
2434550	Tri-o-cresyl Phosphate	2.00	Spike	P	0 - 33
2434550	Triadimefon	16.7	Spike	P	0 - 28

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
2435386	Dicofol	2.52	Spike	P	0 - 37

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	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 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

Reference Method: EPA 8321B

Batch ID: P434679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434123	2,4-D	4.83	Spike	P	0 - 30
2434123	2,4,5-T	14.6	Spike	P	0 - 30
2434123	Acetaminophen	1.92	Spike	P	0 - 30
2434123	Acetamidrid	104	Spike	F	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434123	Afidopyropen	85.4	Spike	F	0 - 30
2434123	Bentazon	0.199	Spike	P	0 - 30
2434123	Benzovindiflupyr	0.923	Spike	P	0 - 30
2434123	Carbamazepine	1.43	Spike	P	0 - 30
2434123	Clothianidin	3.50	Spike	P	0 - 30
2434123	Dinotefuran	3.64	Spike	P	0 - 30
2434123	Diuron	7.56	Spike	P	0 - 30
2434123	Fenuron	1.33	Spike	P	0 - 30
2434123	Fluridone	7.77	Spike	P	0 - 30
2434123	Hydrocodone	0.744	Spike	P	0 - 30
2434123	Ibuprofen	0.143	Spike	P	0 - 30
2434123	Imazapyr	0.565	Spike	P	0 - 30
2434123	Imidacloprid	3.76	Spike	P	0 - 30
2434123	Linuron	3.77	Spike	P	0 - 30
2434123	Mandestrobin	13.2	Spike	P	0 - 30
2434123	MCCP	1.79	Spike	P	0 - 30
2434123	Naproxen	11.4	Spike	P	0 - 30
2434123	Primidone	5.88	Spike	P	0 - 30
2434123	Pyraclostrobin	2.45	Spike	P	0 - 30
2434123	Silvex	4.83	Spike	P	0 - 30
2434123	Thiamethoxam	4.93	Spike	P	0 - 30
2434123	Tolfenpyrad	13.1	Spike	P	0 - 30
2434123	Triclopyr	9.38	Spike	P	0 - 30

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: P434699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434123	Acesulfame K	1.90	Spike	P	0 - 30
2434123	AMPA	2.75	Spike	P	0 - 30
2434123	Endothall	0.0181	Spike	P	0 - 30
2434123	Glufosinate	8.36	Spike	P	0 - 30
2434123	Glyphosate	1.18	Spike	P	0 - 30
2434123	Sucralose	0.398	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P434707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434064	Total Alkalinity	1.79	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P434914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435219	Total Alkalinity	1.57	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P435122

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434183	TDS	1.94	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P434710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434064	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P434919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435219	Fluoride	0.487	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P434971

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2434601	Organic Carbon	0.518	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P435117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435421	Organic Carbon	0.678	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2434547
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	44.0	P	30 - 160

Lab Sample ID: 2434548
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	100	P	30 - 160
EPA 8321B	Acetaminophen-d4	55.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	45.0	P	30 - 160
EPA 8321B	Diuron-d6	34.5	P	30 - 160
EPA 8321B	Endothall-d6	121	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	72.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	55.7	P	30 - 160
EPA 8321B	Primidone-d5	60.2	P	30 - 160
EPA 8321B	Sucralose-d6	112	P	30 - 160

Lab Sample ID: 2434549
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.9	P	37 - 129
EPA 8270E	Decachlorobiphenyl	75.0	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	33.0	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	39.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	65.6	P	28 - 102
EPA 8276	PCNB	63.4	P	49 - 115

Lab Sample ID: 2434550
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	69.9	P	20 - 200
EPA 8270E	Simazine-d10	75.9	P	62 - 142
EPA 8270E	Terbufos-d10	68.9	P	58 - 132
EPA 8270E	Terphenyl-d14	64.8	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A121378

Included Lab Sample IDs: 2434513

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.3	98.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121379

Included Lab Sample IDs: 2434511, 2434514, 2434516

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.5	97.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A121382

Included Lab Sample IDs: 2434511, 2434514, 2434516

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121407

Included Lab Sample IDs: 2434512

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121417

Included Lab Sample IDs: 2434511

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.9	99.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121417

Included Lab Sample IDs: 2434511

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

Reference Method: EPA 8321B

Run ID: A121442

Included Lab Sample IDs: 2434548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	99.8	92.5	P/P	50 - 150
2,4,5-T	92.1	89.7	P/P	50 - 150
Acetaminophen	86.1	86.2	P/P	60 - 160
Acetamiprid	111	110	P/P	50 - 150
Afidopyropen	103	106	P/P	50 - 150
Bentazon	116	115	P/P	50 - 160
Benzovindiflupyr	103	102	P/P	50 - 150
Carbamazepine	104	106	P/P	60 - 150
Clothianidin	105	99.3	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121442
Included Lab Sample IDs: 2434548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dinotefuran	109	113	P/P	50 - 150
Diuron	105	108	P/P	60 - 160
Fenuron	107	106	P/P	60 - 150
Fluridone	106	100	P/P	60 - 160
Hydrocodone	114	114	P/P	60 - 150
Ibuprofen	89.0	106	P/P	50 - 160
Imazapyr	93.7	91.1	P/P	50 - 150
Imidacloprid	99.8	99.1	P/P	60 - 150
Linuron	102	106	P/P	60 - 150
Mandestrobin	127	129	P/P	50 - 150
MCPP	94.9	91.5	P/P	50 - 150
Naproxen	110	100	P/P	50 - 160
Primidone	98.7	104	P/P	60 - 150
Pyraclostrobin	111	113	P/P	60 - 150
Silvex	85.4	88.5	P/P	50 - 150
Thiamethoxam	107	110	P/P	50 - 150
Tolfenpyrad	105	104	P/P	60 - 150
Triclopyr	82.3	95.9	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A121450
Included Lab Sample IDs: 2434512, 2434515

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	103	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A121456
Included Lab Sample IDs: 2434548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	133	130	P/P	60 - 160
Sucralose	122	110	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A121466
Included Lab Sample IDs: 2434548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	92.5	75.0	P/P	60 - 160
Endothall	114	106	P/P	60 - 160
Glufosinate	98.3	98.1	P/P	60 - 160
Glyphosate	88.1	96.5	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A121485
Included Lab Sample IDs: 2434511, 2434514, 2434516

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	98.5	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121485

Included Lab Sample IDs: 2434511, 2434514, 2434516

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	100	104	P/P	90 - 110
Sulfate	103	103	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121501

Included Lab Sample IDs: 2434514, 2434516

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.0	95.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121501

Included Lab Sample IDs: 2434514, 2434516

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

Reference Method: EPA 8270E

Run ID: A121512

Included Lab Sample IDs: 2434549

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
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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121512
Included Lab Sample IDs: 2434549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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: 2434547

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
Propoxur	122	123	P/P	50 - 150

Reference Method: SM 5310 B-2011
Run ID: A121525
Included Lab Sample IDs: 2434515, 2434517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	96.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A121536
Included Lab Sample IDs: 2434517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121549
Included Lab Sample IDs: 2434549

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A121562
Included Lab Sample IDs: 2434515, 2434517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	98.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A121570
Included Lab Sample IDs: 2434512, 2434515, 2434517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.0	95.5	P/P	90 - 110
NO2NO3-N	99.0	96.0	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A121588
Included Lab Sample IDs: 2434512

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.8	95.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A121609
Included Lab Sample IDs: 2434550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.7		P	80 - 120
Avobenzone	104		P	80 - 120
Dechlorane Plus	91.6		P	80 - 120
Octinoxate	92.4		P	80 - 120
Oxybenzone	99.7		P	80 - 120
PBDE-47	95.0		P	80 - 120
PBDE-99	91.6		P	80 - 120
Tri-o-cresyl Phosphate	98.4		P	80 - 120

Reference Method: EPA 8276
Run ID: A121675
Included Lab Sample IDs: 2434549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.2		P	80 - 120
Toxaphene	93.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121685
Included Lab Sample IDs: 2434550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Etridiazole	108		P	80 - 120
Flutolanil	98.4		P	80 - 120
Iprodione	91.0		P	80 - 120
Metribuzin	107		P	80 - 120
Norflurazon	96.3		P	80 - 120
Oxadiazon	110		P	80 - 120
Parathion Methyl	97.8		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A121725
Included Lab Sample IDs: 2434512

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	95.7	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A121741
Included Lab Sample IDs: 2434550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	96.6		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	89.7		P	80 - 120
Azinphos Methyl	93.8		P	80 - 120
Azoxystrobin	94.2		P	80 - 120
Bromacil	84.9		P	80 - 120
Butylate	85.3		P	80 - 120
Caffeine	97.8		P	80 - 120
Carbophenothion	80.6		P	80 - 120
Carfentrazone Ethyl	81.1		P	80 - 120
Chlorfenapyr	88.9		P	80 - 120
Chlorpyrifos Ethyl	93.3		P	80 - 120
Chlorpyrifos Methyl	97.2		P	80 - 120
Coumaphos	80.3		P	80 - 120
Cyanazine	111		P	80 - 120
Cyprodinil	99.8		P	80 - 120
Demeton	108		P	80 - 120
Diazinon	105		P	80 - 120
Difenoconazole	115		P	80 - 120
Dimethenamid	104		P	80 - 120
Dimethomorph	107		P	80 - 120
Disulfoton	99.5		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	91.8		P	80 - 120
Ethion	94.3		P	80 - 120
Ethoprop	103		P	80 - 120
Fenamiphos	88.6		P	80 - 120
Fenbuconazole	83.5		P	80 - 120
Fipronil	86.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A121741
 Included Lab Sample IDs: 2434550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Desulfinyl	94.0		P	80 - 120
Fipronil Sulfide	91.2		P	80 - 120
Fipronil Sulfone	89.3		P	80 - 120
Fluazifop-P-butyl	80.6		P	80 - 120
Fludioxonil	82.9		P	80 - 120
Flumioxazin	114		P	80 - 120
Fluxapyroxad	83.6		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	114		P	80 - 120
Loratadine	91.5		P	80 - 120
Malathion	95.5		P	80 - 120
Metaxyl	93.1		P	80 - 120
Metolachlor	92.8		P	80 - 120
Mevinphos	78.2*		F	80 - 120
Molinate	100		P	80 - 120
Myclobutanil	93.1		P	80 - 120
Naled	110		P	80 - 120
Napropamide	92.8		P	80 - 120
Oxyfluorfen	94.1		P	80 - 120
Parathion Ethyl	107		P	80 - 120
Pendimethalin	111		P	80 - 120
Phenytoin	108		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	111		P	80 - 120
Prometon	93.3		P	80 - 120
Prometryn	94.0		P	80 - 120
Pronamide	111		P	80 - 120
Propanil	90.8		P	80 - 120
Propargite	89.7		P	80 - 120
Propiconazole	98.5		P	80 - 120
Pyraflufen Ethyl	97.8		P	80 - 120
Pyridaben	90.6		P	80 - 120
Pyriproxyfen	97.3		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	83.8		P	80 - 120
Sulfentrazone	71.8*		F	80 - 120
Tebuconazole	86.9		P	80 - 120
Terbufos	107		P	80 - 120
Terbuthylazine	110		P	80 - 120
Thiobencarb	96.4		P	80 - 120
Triadimefon	94.3		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
 Run ID: A121763
 Included Lab Sample IDs: 2434515, 2434517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.5	98.3	P/P	90 - 110
Kjeldahl Nitrogen	98.3	96.0	P/P	90 - 110

Quality Assurance Report

Calibration Verification

* 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)	101					
EPA 180.1 Rev. 2.0	Turbidity	101				8.28	
EPA 300.0 Rev. 2.1	Chloride	94.6	97.4	95.8		1.43	
	Chloride	102	110	100		0.0834	
	Sulfate	91.0	94.0	91.8		1.55	
	Sulfate	97.9	99.6	96.9		0.189	
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	97.2	99.2			1.26
	Ammonia-N	97.8	98.2	98.0			0.156
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	95.6	99.2			1.92
	Kjeldahl Nitrogen	103	96.5	98.3			1.32
EPA 353.2 Rev. 2.0	NO2NO3-N	104	100	100			0.0
	NO2NO3-N	96.5	94.5	95.5			1.05
EPA 365.1 Rev. 2.0	Total-P	106	97.3	97.8			0.370
	Total-P	105	108	108			0.360
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2	99.6	99.9			0.301
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.4	81.5	74.6			8.88
	Acetochlor	78.4	88.2	86.8			1.56
	Alachlor	65.5	104	86.0			18.6
	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	89.2	85.9	93.8			8.85
	Atrazine	86.4	102	96.5			1.84
	Atrazine Desethyl	80.2	58.2	62.6			6.29
	Avobenzone	137	120	128			6.69
	Azinphos Methyl	121	190	165			14.2
	Azoxystrobin	92.7	88.9	86.1			3.23
	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	108	76.9	65.1			16.7
	Butylate	69.0	64.2	54.8			15.7
	Caffeine	132	99.7	106			4.81
	Carbophenothion	82.3	94.5	85.2			10.3
	Carfentrazone Ethyl	80.9	105	74.2			34.5
	Chlorfenapyr	83.6	86.6	72.4			17.9
	Chlorothalonil	69.7	92.2	95.8			3.88
	Chlorpyrifos Ethyl	101	112	96.5			15.1
	Chlorpyrifos Methyl	87.4	116	95.8			19.5
	Cis-Nonachlor	76.2	82.0	85.9			4.63
	Coumaphos	81.5	166	129			24.6
	Cyanazine	110	123	103			17.1
	Cypermethrin	97.9	110	105			4.17
	Cyprodinil	80.1	79.0	68.6			14.1
	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 Plus	77.7	56.5	45.6			21.4
	Delta-BHC	96.6	110	107			2.50
	Deltamethrin	121	130	114			13.3
	Demeton	62.4	123	113			8.67

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Diazinon	89.3	91.2	82.8			9.74
	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	113	83.5	62.9			28.1
	Dimethenamid	71.2	89.8	81.3			9.90
	Dimethomorph	195	93.6	97.7			4.23
	Disulfoton	102	88.0	80.4			9.05
	Dithiopyr	79.2	77.1	64.9			17.2
	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	55.6	58.0	53.3			8.40
	Esfenvalerate	91.0	103	98.5			4.64
	Ethalfuralin	75.2	73.2	68.2			7.09
	Ethion	47.4	70.1	72.5			3.45
	Ethoprop	79.8	88.4	87.7			0.870
	Etridiazole	60.3	52.9	47.0			11.8
	Fenamiphos	56.4	75.1	71.7			4.66
	Fenbuconazole	71.5	111	79.8			32.8
	Fenpropathrin	89.2	86.1	84.7			1.59
	Fipronil	87.8	95.3	74.1			22.2
	Fipronil Desulfinyl	94.2	84.9	60.5			30.3
	Fipronil Sulfide	74.0	79.7	66.6			15.7
	Fipronil Sulfone	73.1	99.4	86.6			10.8
	Fluazifop-P-butyl	68.0	93.3	71.3			26.8
	Fludioxonil	64.0	84.1	63.9			27.3
	Flumioxazin	138	170	137			21.3
	Flutolanil	62.0	61.1	51.8			16.6
	Fluxapyroxad	63.1	126	114			10.1
	Fonofos	87.8	90.1	83.2			7.97
	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
	Hexachlorobenzene	48.8	49.0	51.4			4.86
	Hexazinone	78.5	98.2	84.8			14.7
	Imazalil	131	92.0	81.7			11.9
	Iprodione	80.2	91.4	72.9			22.5
	Kepone	90.4	110	107			2.69
	Lambda-Cyhalothrin	79.1	86.3	77.7			10.5
	Loratadine	92.5	161	165			2.29
	Malathion	55.1	134	118			13.2
	Metalaxyl	69.5	77.6	83.7			7.54
	Methoprene	72.5	80.4	65.3			20.8
	Methoxychlor	90.7	83.6	80.8			3.47
	Metolachlor	75.0	82.6	75.3			9.18
	Metribuzin	50.4	58.1	65.6			12.0
	Mevinphos	86.4	88.4	94.5			6.69
	MGK-264	98.0	105	97.4			7.87
	Mirex	70.1	80.5	66.3			19.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Molinate	60.4	87.7	65.6		28.8
	Myclobutanil	75.7	85.0	80.4		5.49
	Naled	51.1	56.1	57.8		2.99
	Napropamide	72.1	81.1	60.0		29.9
	Norflurazon	58.7	65.1	48.5		29.3
	Octinoxate	93.7	90.5	88.5		2.29
	Oxadiazon	67.0				11.0
	Oxybenzone	104	104	97.8		5.88
	Oxychlordane	76.8	81.7	74.7		9.00
	Oxyfluorfen	85.0	108	102		5.69
	Parathion Ethyl	87.2	89.7	81.8		9.29
	Parathion Methyl	99.5	130	101		25.0
	PBDE-47	73.0	71.6	74.6		4.12
	PBDE-99	58.2	58.0	55.9		3.56
	PCB-1016	77.9	75.1	80.3		6.76
	PCB-1260	89.2	75.6	73.2		3.25
	Pendimethalin	62.5	71.3	76.3		6.84
	Permethrin	91.0	93.3	90.5		3.05
	Phenothrin	72.9	78.3	70.1		11.0
	Phenytoin	48.3	53.6	50.0		6.97
	Phorate	83.3	97.2	115		17.0
	Piperonyl Butoxide	128	117	122		4.37
	Prallethrin	94.2	106	89.6		16.4
	Prodiamine	24.6	52.4	52.0		0.772
	Prometon	111	88.2	76.8		13.7
	Prometryn	86.6	72.1	74.2		2.81
	Pronamide	92.7	98.5	95.6		2.98
	Propanil	114	72.0	73.1		1.58
	Propargite	56.0	101	84.3		17.8
	Propiconazole	67.9	123	108		13.1
	Pyraflufen Ethyl	81.8	126	100		23.2
	Pyridaben	96.6	152	144		5.57
	Pyriproxyfen	75.2	94.5	88.9		6.11
	Simazine	99.0	96.7	102		4.87
	Stirophos	28.5	83.7	57.4		37.3
	Sulfentrazone	77.4	88.9	77.4		13.8
	Tau-Fluvalinate	84.1	99.9	93.6		6.47
	Tebuconazole	42.2	109	76.4		34.7
	Terbufos	106	86.9	82.5		5.19
	Terbuthylazine	72.3	85.8	78.5		8.94
	Tetramethrin	110	105	110		4.56
	Thiobencarb	80.4	71.9	73.7		2.56
	Trans-Nonachlor	80.1	87.0	75.4		14.3
	Tri-o-cresyl Phosphate	106	105	102		2.00
	Triadimefon	72.1	82.4	69.7		16.7
	Triclosan Methyl	80.5	80.6	81.2		0.719
	Trifluralin	78.7	71.1	70.4		0.945
EPA 8276	Chlordane	100	104	95.4		8.30
	Toxaphene	116	129	117		9.34
EPA 8321B	2,4-D	97.9				4.83
	2,4,5-T	86.5	110	127		14.6
	3-Hydroxycarbofuran	72.1	59.8	57.4		4.23
	Acesulfame K	114	152	155		1.90
	Acetaminophen	74.2	80.3	81.9		1.92

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Acetamiprid	95.2	15.3	48.3			104
	Afidopyropen	95.8	22.2	55.3			85.4
	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	128	85.3	82.7			2.75
	Bentazon	102	47.8	47.7			0.199
	Benzovindiflupyr	89.1	78.9	78.2			0.923
	Carbamazepine	91.5	53.3	54.0			1.43
	Carbaryl	73.9	48.9	47.4			3.09
	Carbofuran	78.7	44.5	45.9			3.16
	Clothianidin	101	90.2	93.4			3.50
	Dinotefuran	103	69.9	72.5			3.64
	Diuron	86.0	41.6	46.3			7.56
	Endothall	113	134	134			0.0181
	Fenuron	99.3	54.0	54.7			1.33
	Fluridone	92.3	41.6	45.0			7.77
	Glufosinate	99.5	107	116			8.36
	Glyphosate	88.7	132	130			1.18
	Hydrocodone	102	67.2	66.7			0.744
	Ibuprofen	86.8	60.7	60.8			0.143
	Imazapyr	88.6	79.2	78.7			0.565
	Imidacloprid	92.5	110	115			3.76
	Linuron	89.0	51.7	53.7			3.77
	Mandestrobin	109	61.4	70.1			13.2
	MCPP	98.2	118	121			1.79
	Methiocarb	76.1	60.2	60.5			0.617
	Methomyl	85.3	49.4	50.9			2.86
	Naproxen	72.7	81.6	91.5			11.4
	Oxamyl	89.3	53.7	56.9			5.80
	Primidone	96.4	83.2	88.2			5.88
	Propoxur	85.0	46.6	44.5			4.53
	Pyraclostrobin	89.3	74.4	76.3			2.45
	Silvex	90.7	111	116			4.83
	Sucralose	114	123	122			0.398
	Thiamethoxam	99.5	77.9	81.8			4.93
	Tolfenpyrad	55.0	60.1	52.7			13.1
	Triclopyr	91.6	113	124			9.38
SM 2320 B-2011	Total Alkalinity	95.8				1.79	
	Total Alkalinity	97.8				1.57	
SM 2540 C-2015	TDS	99.4				1.94	
SM 2540 D-2015	TSS	98.9					
SM 4500-F- C-2011	Fluoride	98.3	99.2	99.8			0.480
	Fluoride	98.7	98.7	99.4			0.487
SM 5310 B-2011	Organic Carbon	95.0	95.0	96.0			0.518
	Organic Carbon	95.4	94.6	95.4			0.678

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2434511, 2434514, 2434516
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2434511, 2434514, 2434516
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2434511, 2434514, 2434516

Reference Method Descriptions

Method	Description	Associated Samples
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2434511, 2434514, 2434516
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2434512, 2434515, 2434517
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2434512, 2434515, 2434517
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2434512, 2434515, 2434517
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2434512, 2434515, 2434517
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2434513
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2434550
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2434549
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2434550
EPA 8270E	PCBs in water matrices by GC/MS/MS	2434549
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2434549
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2434547
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2434548
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2434511, 2434514, 2434516
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2434511, 2434514, 2434516
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2434511, 2434514, 2434516
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2434511, 2434514, 2434516
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2434512, 2434515, 2434517

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	09/06/2023			09/06/2023 16:26	Chandler E Cox	2434511
	09/06/2023			09/06/2023 16:27	Chandler E Cox	2434514
	09/06/2023			09/06/2023 16:28	Chandler E Cox	2434516
EPA 180.1 Rev. 2.0	09/06/2023			09/06/2023 15:40	Khloe J Berg	2434511
	09/06/2023			09/06/2023 15:42	Khloe J Berg	2434514
	09/06/2023			09/06/2023 15:43	Khloe J Berg	2434516
EPA 300.0 Rev. 2.1	09/06/2023			09/11/2023 19:04	James L Waggeberby	2434511
	09/06/2023			09/12/2023 02:49	James L Waggeberby	2434514
	09/06/2023			09/12/2023 03:04	James L Waggeberby	2434516
EPA 350.1 Rev. 2.0	09/06/2023			09/07/2023 12:57	Khloe J Berg	2434512
	09/06/2023			09/15/2023 12:29	Ping Hua	2434515
	09/06/2023			09/15/2023 12:30	Ping Hua	2434517
EPA 351.2 Rev. 2.0	09/06/2023	09/21/2023 11:46	Ping Hua	09/22/2023 13:51	Ping Hua	2434512
	09/06/2023	09/22/2023 15:23	Simonne.V. Calhoun	09/26/2023 10:18	Samantha L Bates	2434515
	09/06/2023	09/22/2023 15:23	Simonne.V. Calhoun	09/26/2023 10:23	Samantha L Bates	2434517
EPA 353.2 Rev. 2.0	09/06/2023			09/13/2023 14:13	Anna M. Plaviak	2434515
	09/06/2023			09/13/2023 14:19	Anna M. Plaviak	2434517
	09/06/2023			09/13/2023 14:45	Anna M. Plaviak	2434512
EPA 365.1 Rev. 2.0	09/06/2023	09/08/2023 15:16	Adam P Silver	09/11/2023 11:46	Chandler E Cox	2434512, 2434515
	09/06/2023	09/13/2023 18:31	Adam P Silver	09/14/2023 13:47	James L Waggeberby	2434517
EPA 365.1 Rev. 2.0 dissolved	09/06/2023			09/06/2023 15:27	Elise M. Gillis	2434513
EPA 8270E	09/06/2023	09/07/2023 08:00	Fe-Val Siddell	09/12/2023 16:35	Vandana T. Nagar	2434550
	09/06/2023	09/07/2023 08:00	Fe-Val Siddell	09/15/2023 17:24	Vandana T. Nagar	2434550
	09/06/2023	09/07/2023 08:00	Fe-Val Siddell	09/18/2023 18:28	Arthur Maknenko	2434550
	09/06/2023	09/12/2023 08:00	Fe-Val Siddell	09/13/2023 22:37	Vandana T. Nagar	2434549
	09/06/2023	09/12/2023 08:00	Fe-Val Siddell	09/14/2023 00:22	Lipi Saha	2434549
EPA 8276	09/06/2023	09/12/2023 08:00	Fe-Val Siddell	09/14/2023 10:39	Arthur Maknenko	2434549
EPA 8321B	09/06/2023	09/08/2023 10:00	Tae K Lee	09/08/2023 18:17	Hana Lee	2434548
	09/06/2023	09/08/2023 10:00	Tae K Lee	09/11/2023 16:35	Hana Lee	2434548
	09/06/2023	09/08/2023 15:45	Hoor Shaik	09/08/2023 19:54	Juyoung Kim	2434548
	09/06/2023	09/12/2023 09:00	Hoor Shaik	09/13/2023 16:30	Juyoung Kim	2434547
SM 2320 B-2011	09/06/2023			09/07/2023 23:22	Dale L. Simmons	2434511
	09/06/2023			09/13/2023 03:54	Dale L. Simmons	2434514
	09/06/2023			09/13/2023 04:07	Dale L. Simmons	2434516
SM 2540 C-2015	09/06/2023			09/11/2023 15:46	Yijie Li	2434511, 2434514, 2434516
SM 2540 D-2015	09/06/2023			09/11/2023 15:46	Yijie Li	2434511, 2434514, 2434516
SM 4500-F- C-2011	09/06/2023			09/07/2023 23:22	Dale L. Simmons	2434511
	09/06/2023			09/13/2023 03:54	Dale L. Simmons	2434514
	09/06/2023			09/13/2023 04:07	Dale L. Simmons	2434516
SM 5310 B-2011	09/06/2023			09/13/2023 19:29	Elise M. Gillis	2434515

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	09/06/2023			09/13/2023 19:43	Elise M. Gillis	2434517
	09/06/2023			09/15/2023 16:06	Elise M. Gillis	2434512