

Chemical Analysis Report

NE-DIST-2023-03-02-01

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

Event Description: **Thomas Creek Retrieve**
Request ID: **RQ-2023-02-20-26**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 27-MAR-2023 13:14



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: Thomas Creek 5 miles Down from Ethel

Collection Date/Time: 03/01/2023 11:05

Field ID: G4NE0298

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391287	DEP SOP: NU-094-1	Color (true)	220		PCU	P426622	
	EPA 180.1 Rev. 2.0	Turbidity	5.2		NTU	P426625	
	EPA 300.0 Rev. 2.1	Chloride	320		mg Cl/L	P427000	
		Sulfate	41		mg SO4/L	P427003	
	SM 2320 B-2011	Total Alkalinity	28		mg CaCO3/L	P426900	
	SM 2540 C-2015	TDS	652		mg/L	P427176	
	SM 2540 D-2015	TSS	7	I	mg/L	P426964	
	SM 4500-F- C-2011	Fluoride	0.085	I	mg F/L	P426903	MS
2391288	EPA 350.1 Rev. 2.0	Ammonia-N	0.038		mg N/L	P426732	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P426908	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.046		mg N/L	P426859	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P426839	
	SM 5310 B-2011	Organic Carbon	26		mg C/L	P426935	

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

Sample Location: Thomas CR 6.0 Mi Below City Prison

Collection Date/Time: 03/01/2023 11:30

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391301	EPA 8321B	Aldicarb	0.020	U	ug/L	P426587	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P426587	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P426587	MS
		Carbaryl	0.0020	U	ug/L	P426587	
		Carbofuran	0.0020	U	ug/L	P426587	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P426587	
		Methiocarb	0.0020	U	ug/L	P426587	
		Methomyl	0.0020	U	ug/L	P426587	
		Oxamyl	0.0020	U	ug/L	P426587	
		Propoxur	0.0020	U	ug/L	P426587	MS
2391302		2,4-D	0.0020	U	ug/L	P426586	
		Acesulfame K	0.10	U	ug/L	P426535	
		2,4,5-T	0.0040	U	ug/L	P426586	
		AMPA	0.10	U	ug/L	P426535	
		Acetaminophen	0.0080	U	ug/L	P426586	
		Acetamiprid	0.0020	U	ug/L	P426586	
		Endothall	0.25	U	ug/L	P426535	
		Glufosinate	0.10	U	ug/L	P426535	
		Glyphosate	0.10	U	ug/L	P426535	
		Afidopyropen	0.0020	U	ug/L	P426586	RPD
		Bentazon	0.0022	I	ug/L	P426586	
		Sucralose	0.11		ug/L	P426535	
		Benzovindiflupyr	0.0020	U	ug/L	P426586	
		Carbamazepine	8.0E-04	U	ug/L	P426586	
		Clothianidin	0.0020	U	ug/L	P426586	
		Dinotefuran	0.0020	U	ug/L	P426586	
		Diuron	0.0020	U	ug/L	P426586	
		Fenuron	0.032	U	ug/L	P426586	
		Fluridone	8.0E-04	U	ug/L	P426586	
		Imazapyr	0.051		ug/L	P426586	
		Hydrocodone	0.0020	U	ug/L	P426586	
		Ibuprofen	0.080	U	ug/L	P426586	
		Imidacloprid	0.0020	U	ug/L	P426586	
		Linuron	0.0040	U	ug/L	P426586	
		Mandestrobin	0.0020	U	ug/L	P426586	
		MCPP	0.0020	U	ug/L	P426586	
		Naproxen	0.0080	U	ug/L	P426586	
		Primidone	0.0040	U	ug/L	P426586	
		Pyraclostrobin	0.0020	U	ug/L	P426586	
		Silvex	0.0040	U	ug/L	P426586	
		Thiamethoxam	0.0020	U	ug/L	P426586	
		Tolfenpyrad	0.0020	U	ug/L	P426586	
		Triclopyr	0.0040	U	ug/L	P426586	
2391305	EPA 8270E	Aldrin	0.66	U	ng/L	P426832	

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391305	EPA 8270E	Alpha-BHC	0.10	UJ	ng/L	P426832	LCS
		Alpha-Chlordane	0.20	U	ng/L	P426832	
		PCB-1016	2.0	U	ng/L	P426832	
		Beta-BHC	0.10	U	ng/L	P426832	
		PCB-1221	2.0	U	ng/L	P426832	
		Beta-Cyfluthrin	1.3	U	ng/L	P426832	
		PCB-1232	2.0	U	ng/L	P426832	
		Bifenthrin	0.51	U	ng/L	P426832	
		PCB-1242	2.0	U	ng/L	P426832	
		PCB-1248	2.0	U	ng/L	P426832	
		Chlorothalonil	3.7	U	ng/L	P426832	
		PCB-1254	2.0	U	ng/L	P426832	
		Cis-Nonachlor	0.20	U	ng/L	P426832	
		PCB-1260	2.0	U	ng/L	P426832	MS
		Cypermethrin	1.5	U	ng/L	P426832	
		Dacthal	0.15	U	ng/L	P426832	
		DDD-p,p'	0.26	U	ng/L	P426832	
		DDE-p,p'	0.20	U	ng/L	P426832	
		DDT-p,p'	0.26	UJ	ng/L	P426832	LCS
		Delta-BHC	0.41	U	ng/L	P426832	
		Deltamethrin	1.3	U	ng/L	P426832	
		Dichlobenil	0.26	U	ng/L	P426832	
		Dicofol	1.3	U	ng/L	P426832	
		Dieldrin	0.41	U	ng/L	P426832	
		Endosulfan I	0.41	U	ng/L	P426832	
		Endosulfan II	0.41	U	ng/L	P426832	
		Endosulfan Sulfate	0.31	U	ng/L	P426832	
		Endrin	0.41	U	ng/L	P426832	
		Endrin Aldehyde	0.77	U	ng/L	P426832	
		Endrin Ketone	0.41	U	ng/L	P426832	
		Esfenvalerate	0.77	U	ng/L	P426832	
		Ethalfuralin	0.15	U	ng/L	P426832	
		Fenpropathrin	0.26	U	ng/L	P426832	
		Gamma-BHC	0.13	U	ng/L	P426832	
		Gamma-Chlordane	0.20	U	ng/L	P426832	
		Heptachlor	0.20	U	ng/L	P426832	
		Heptachlor Epoxide	0.26	U	ng/L	P426832	
		Hexachlorobenzene**	1.0	U	ng/L	P426832	
		Kepone	5.1	UJ	ng/L	P426832	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P426832	
		Methoprene	0.77	U	ng/L	P426832	
		Methoxychlor	0.31	U	ng/L	P426832	
		MGK-264	0.20	U	ng/L	P426832	
		Mirex	0.36	U	ng/L	P426832	
		Oxychlordane	0.31	U	ng/L	P426832	

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Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391305	EPA 8270E	Permethrin	1.6	U	ng/L	P426832	
		Phenothrin	0.92	U	ng/L	P426832	
		Piperonyl Butoxide	0.15	U	ng/L	P426832	
		Prallethrin	2.0	U	ng/L	P426832	
		Tau-Fluvalinate	0.26	U	ng/L	P426832	
		Tetramethrin	0.77	U	ng/L	P426832	
		Trans-Nonachlor	0.20	U	ng/L	P426832	
		Triclosan Methyl	0.15	U	ng/L	P426832	
		Trifluralin	0.20	U	ng/L	P426832	
		Chlordane	2.0	U	ng/L	P426832	MS, RPD
2391306	EPA 8270E	Toxaphene	15	U	ng/L	P426832	MS
		Oxybenzone**	9.5	U	ng/L	P426511	
		Acetochlor	0.19	U	ng/L	P426511	
		Octinoxate**	19	U	ng/L	P426511	
		Alachlor	0.38	U	ng/L	P426511	
		Avobenzone**	95	U	ng/L	P426511	
		Ametryn	1.0	U	ng/L	P426511	
		Atrazine	1.5	J	ng/L	P426511	LCS, MS
		PBDE-47**	3.8	U	ng/L	P426511	
		Atrazine Desethyl	1.2	U	ng/L	P426511	
		PBDE-99**	4.7	U	ng/L	P426511	
		Azinphos Methyl	2.8	U	ng/L	P426511	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P426511	
		Azoxystrobin	0.38	U	ng/L	P426511	
		Bromacil	0.92	I	ng/L	P426511	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P426511	
		Butylate	0.19	U	ng/L	P426511	
		Dechlorane Plus**	28	U	ng/L	P426511	
		Caffeine**	7.1	U	ng/L	P426511	
		Dechlorane 602**	4.7	U	ng/L	P426511	
		Carbophenothion	0.47	U	ng/L	P426511	
		Dechlorane 603**	3.8	U	ng/L	P426511	
		Carfentrazone Ethyl	0.14	U	ng/L	P426511	
		Hexabromobenzene**	5.7	U	ng/L	P426511	
		Chlorfenapyr	0.28	U	ng/L	P426511	
		PBB-153**	7.6	U	ng/L	P426511	
		Chlorpyrifos Ethyl	0.28	U	ng/L	P426511	
		Pentabromotoluene**	2.8	U	ng/L	P426511	
		Chlorpyrifos Methyl	0.095	U	ng/L	P426511	
		Tris(2-chloroethyl) phosphate (TCEP)**	66	U	ng/L	P426511	
		Coumaphos	1.0	U	ng/L	P426511	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	36	IV	ng/L	P426511	
		Cyanazine	4.7	U	ng/L	P426511	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.4	U	ng/L	P426511	

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391306	EPA 8270E	Cyprodinil	0.19	U	ng/L	P426511	
		Tetradecachloro-m-terphenyl**	7.1	U	ng/L	P426511	
		Demeton	3.3	U	ng/L	P426511	
		Diazinon	0.12	U	ng/L	P426511	
		Difenoconazole	0.57	U	ng/L	P426511	
		Dimethenamid	0.095	U	ng/L	P426511	
		Dimethomorph	0.28	U	ng/L	P426511	
		Disulfoton	0.57	U	ng/L	P426511	
		Dithiopyr	0.95	U	ng/L	P426511	
		EPTC	0.47	UJ	ng/L	P426511	LCS, RPD
		Ethion	0.28	U	ng/L	P426511	
		Ethoprop	0.12	U	ng/L	P426511	
		Etridiazole	0.095	U	ng/L	P426511	
		Fenamiphos	0.43	U	ng/L	P426511	
		Fenbuconazole	0.47	U	ng/L	P426511	
		Fipronil	0.19	U	ng/L	P426511	
		Fipronil DesulfinyI**	0.095	U	ng/L	P426511	
		Fipronil Sulfide	0.095	U	ng/L	P426511	
		Fipronil Sulfone	0.12	I	ng/L	P426511	
		Fluazifop-P-butyl	0.095	U	ng/L	P426511	
		Fludioxonil	0.095	U	ng/L	P426511	
		Flumioxazin	2.8	U	ng/L	P426511	
		Flutolanil	0.095	U	ng/L	P426511	
		Fluxapyroxad	0.24	U	ng/L	P426511	
		Fonofos	0.14	U	ng/L	P426511	RPD
		Hexazinone	0.47	U	ng/L	P426511	MS
		Imazalil	0.62	U	ng/L	P426511	
		Iprodione	0.47	U	ng/L	P426511	
		Loratadine**	0.28	U	ng/L	P426511	
		Malathion	0.33	U	ng/L	P426511	
		Metalaxyl	0.47	U	ng/L	P426511	
		Metolachlor	0.71	U	ng/L	P426511	
		Metribuzin	0.38	UJ	ng/L	P426511	LCS
		Mevinphos	0.95	U	ng/L	P426511	RPD
		Molinate	0.24	U	ng/L	P426511	MS
		Myclobutanil	0.33	U	ng/L	P426511	
		Naled	2.4	U	ng/L	P426511	
		Napropamide	0.66	U	ng/L	P426511	
		Norflurazon	0.95	U	ng/L	P426511	
		Oxadiazon	0.33	U	ng/L	P426511	
		Oxyfluorfen	0.19	U	ng/L	P426511	
		Parathion Ethyl	0.14	UJ	ng/L	P426511	LCS, MS
		Parathion Methyl	0.19	U	ng/L	P426511	
		Pendimethalin	0.71	U	ng/L	P426511	
		Phenytain**	5.0	U	ng/L	P426511	

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391306	EPA 8270E	Phorate	0.24	U	ng/L	P426511	
		Prodiamine	0.19	U	ng/L	P426511	
		Prometon	2.8	U	ng/L	P426511	
		Prometryn	0.33	U	ng/L	P426511	
		Pronamide	0.095	U	ng/L	P426511	
		Propanil	0.095	U	ng/L	P426511	
		Propargite	0.76	U	ng/L	P426511	
		Propiconazole	0.57	U	ng/L	P426511	
		Pyraflufen Ethyl	0.28	U	ng/L	P426511	
		Pyridaben	1.3	U	ng/L	P426511	
		Pyriproxyfen	0.24	U	ng/L	P426511	
		Simazine	0.24	U	ng/L	P426511	
		Stirophos	0.38	U	ng/L	P426511	
		Sulfentrazone	1.3	U	ng/L	P426511	
		Tebuconazole	1.3	U	ng/L	P426511	
		Terbufos	0.19	U	ng/L	P426511	
		Terbutylazine	0.19	U	ng/L	P426511	MS
		Thiobencarb	0.47	U	ng/L	P426511	
		Triadimefon	0.14	U	ng/L	P426511	
2391307	EPA 200.7 Rev. 4.4	Calcium	27.1		mg/L	P426646	
		Iron	750		ug/L	P426646	
		Magnesium	57.6		mg/L	P426646	
		Potassium	17.7		mg/L	P426646	
		Sodium	460		mg/L	P426646	
		Strontium	333		ug/L	P426646	
		Tin	3.0	U	ug/L	P426646	
		Titanium	9.6		ug/L	P426646	
		Vanadium	2.5	I	ug/L	P426646	
		Zinc	5.0	U	ug/L	P426646	
	EPA 200.8 Rev. 5.4	Aluminum	462		ug/L	P426646	
		Antimony	0.057	I	ug/L	P426646	
		Arsenic	0.91		ug/L	P426646	
		Barium	25.9		ug/L	P426646	
		Beryllium	0.051		ug/L	P426646	
		Boron	173		ug/L	P426646	
		Cadmium	0.020	U	ug/L	P426646	
		Chromium	1.0	I	ug/L	P426646	
		Cobalt	0.267		ug/L	P426646	
		Copper	0.46	I	ug/L	P426646	
		Lead	0.54		ug/L	P426646	
		Manganese	52.0		ug/L	P426646	
		Molybdenum	0.43	I	ug/L	P426646	
		Nickel	0.68	I	ug/L	P426646	
		Selenium	0.20	U	ug/L	P426646	
		Silver	0.010	U	ug/L	P426646	

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391307	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P426646	
	SM 2340 B-2011	Hardness	305		mg/L	P426646	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: V - Due to the presence of tris(1-chloro-2-propyl) phosphate (TCPP) in both the Method Blank and the sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P426622

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426625

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426646

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: P426646

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: P427000

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427003

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426732

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426908

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426859

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426839

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

Reference Method: EPA 8270E
Batch ID: P426511

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
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 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	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
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
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
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	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	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

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
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	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
Pronamide	0.10	U	ng/L
Pronamide	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
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
Tris(1-chloro-2-propyl) phosphate (TCPP)	17	I	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E

Batch ID: P426832

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'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426832

Component	Result	Code	Units
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426832

Component	Result	Code	Units
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 8276

Batch ID: P426832

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: P426535

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

Reference Method: EPA 8321B

Batch ID: P426586

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P426586

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: EPA 8321B

Batch ID: P426587

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P426900

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P427176

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426964

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426903

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P426935

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: P426622

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426625

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426646

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	110		P	85 - 115
Iron	109		P	85 - 115
Magnesium	110		P	85 - 115
Potassium	105		P	85 - 115
Sodium	106		P	85 - 115
Strontium	102		P	85 - 115
Tin	104		P	85 - 115
Titanium	106		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426646

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.9		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	102		P	85 - 115
Barium	103		P	85 - 115
Beryllium	99.6		P	85 - 115
Boron	101		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	100		P	85 - 115
Cobalt	100		P	85 - 115
Copper	100		P	85 - 115
Lead	99.2		P	85 - 115
Manganese	102		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	102		P	85 - 115
Selenium	105		P	85 - 115
Silver	100		P	85 - 115
Thallium	102		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427000

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427003

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426732

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426908

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: P426859

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: P426839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.3		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.2		P	42 - 162
Acetochlor	89.7		P	69 - 123
Alachlor	70.9		P	65 - 118
Ametryn	92.2		P	58 - 141
Atrazine	59.8		F	73 - 118
Atrazine Desethyl	51.0		P	32 - 125
Avobenzone	113		P	40 - 203
Azinphos Methyl	194		P	36 - 197
Azoxystrobin	77.7		P	58 - 226
Bromacil	75.4		P	48 - 120
Butylate	35.4		P	27 - 85.0
Caffeine	90.7		P	40 - 137
Carbophenothion	63.0		P	54 - 132
Carfentrazone Ethyl	62.0		P	60 - 142
Chlorfenapyr	60.5		P	53 - 117
Chlorpyrifos Ethyl	75.9		P	59 - 116
Chlorpyrifos Methyl	96.6		P	66 - 119
Coumaphos	135		P	11 - 234
Cyanazine	135		P	61 - 248
Cyprodinil	73.0		P	50 - 147
Dechlorane 602	97.8		P	50 - 150
Dechlorane 603	96.4		P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dechlorane Plus	123		P	47 - 182
Demeton	45.3		P	30 - 138
Diazinon	91.3		P	67 - 126
Difenoconazole	157		P	38 - 205
Dimethenamid	77.6		P	57 - 111
Dimethomorph	37.0		P	16 - 212
Disulfoton	62.6		P	46 - 126
Dithiopyr	69.5		P	62 - 115
EPTC	25.8		F	28 - 80.0
Ethion	61.6		P	24 - 122
Ethoprop	92.5		P	62 - 113
Etridiazole	63.7		P	28 - 92.0
Fenamiphos	89.3		P	57 - 128
Fenbuconazole	113		P	52 - 155
Fipronil	85.6		P	63 - 130
Fipronil Desulfinyl	78.4		P	61 - 130
Fipronil Sulfide	79.5		P	56 - 117
Fipronil Sulfone	60.9		P	52 - 118
Fluazifop-P-butyl	76.0		P	61 - 128
Fludioxonil	80.7		P	59 - 129
Flumioxazin	166		P	30 - 250
Flutolanil	76.3		P	53 - 127
Fluxapyroxad	42.8		P	42 - 132
Fonofos	82.2		P	61 - 110
Hexabromobenzene	131		P	50 - 150
Hexazinone	65.2		P	46 - 139
Imazalil	49.8		P	40 - 139
Iprodione	109		P	40 - 146
Loratadine	24.5		P	10 - 224
Malathion	97.7		P	61 - 135
Metalaxyl	88.0		P	58 - 121
Metolachlor	65.6		P	64 - 118
Metribuzin	41.2		F	45 - 245
Mevinphos	81.1		P	49 - 118
Molinate	44.6		P	42 - 92.0
Myclobutanil	69.3		P	55 - 127
Naled	52.5		P	10 - 114
Napropamide	62.5		P	39 - 121
Norflurazon	76.3		P	55 - 129
Octinoxate	97.4		P	26 - 166
Oxadiazon	67.8		P	54 - 115
Oxybenzone	96.5		P	49 - 135
Oxyfluorfen	71.9		P	64 - 139
Parathion Ethyl	60.4		F	70 - 111
Parathion Methyl	77.1		P	76 - 136
PBB-153	124		P	50 - 150
PBDE-47	85.7		P	41 - 148
PBDE-99	81.4		P	38 - 147
Pendimethalin	90.7		P	52 - 118
Pentabromotoluene	125		P	50 - 150
Phenytoin	73.9		P	10 - 162
Phorate	70.4		P	40 - 122

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prodiamine	74.7		P	26 - 141
Prometon	82.6		P	54 - 122
Prometryn	72.8		P	61 - 128
Pronamide	85.4		P	72 - 121
Propanil	56.9		P	45 - 144
Propargite	57.0		P	10 - 199
Propiconazole	60.4		P	56 - 127
Pyraflufen Ethyl	72.4		P	56 - 140
Pyridaben	94.5		P	26 - 211
Pyriproxyfen	42.6		P	33 - 194
Simazine	89.0		P	67 - 121
Stirophos	91.5		P	20 - 142
Sulfentrazone	107		P	21 - 144
Tebuconazole	69.0		P	10 - 122
Terbufos	67.6		P	60 - 129
Terbutylazine	75.6		P	69 - 113
Tetradecachloro-m-terphenyl	153		P	70 - 200
Thiobencarb	69.2		P	51 - 120
Tri-o-cresyl Phosphate	100		P	49 - 150
Triadimefon	57.0		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	148		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	127		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	134		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P426832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	29.8		P	10 - 92.0
Alpha-BHC	68.9		F	75 - 107
Alpha-Chlordane	58.5		P	50 - 108
Beta-BHC	75.2		P	36 - 138
Beta-Cyfluthrin	38.2		P	20 - 161
Bifenthrin	29.1		P	10 - 119
Chlorothalonil	69.5		P	26 - 186
Cis-Nonachlor	46.9		P	42 - 119
Cypermethrin	39.4		P	22 - 150
Dacthal	80.5		P	72 - 119
DDD-p,p'	54.2		P	45 - 107
DDE-p,p'	48.5		P	48 - 106
DDT-p,p'	44.8		F	48 - 110
Delta-BHC	78.1		P	54 - 140
Deltamethrin	45.4		P	22 - 189
Dichlobenil	44.1		P	36 - 117
Dicofol	56.3		P	46 - 155
Dieldrin	59.4		P	54 - 110
Endosulfan I	59.4		P	59 - 105
Endosulfan II	71.7		P	51 - 118
Endosulfan Sulfate	75.3		P	57 - 121
Endrin	61.7		P	10 - 120
Endrin Aldehyde	63.0		P	34 - 118
Endrin Ketone	72.2		P	69 - 177

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Esfenvalerate	38.3		P	23 - 168
Ethalfuralin	50.2		P	49 - 99.0
Fenpropathrin	40.4		P	34 - 117
Gamma-BHC	111		P	72 - 117
Gamma-Chlordane	47.3		P	43 - 106
Heptachlor	58.5		P	41 - 98.0
Heptachlor Epoxide	71.6		P	57 - 106
Hexachlorobenzene	37.3		P	36 - 99.0
Kepone	38.7		P	16 - 215
Lambda-Cyhalothrin	32.6		P	21 - 177
Methoprene	36.4		P	10 - 119
Methoxychlor	61.5		P	60 - 112
MGK-264	66.7		P	26 - 122
Mirex	31.2		P	10 - 169
Oxychlordane	47.0		P	43 - 105
PCB-1016	67.0		P	48 - 112
PCB-1260	66.7		P	44 - 118
Permethrin	38.5		P	24 - 148
Phenothrin	31.1		P	10 - 106
Piperonyl Butoxide	70.4		P	10 - 139
Prallethrin	53.7		P	17 - 109
Tau-Fluvalinate	31.2		P	13 - 131
Tetramethrin	61.3		P	10 - 132
Trans-Nonachlor	45.6		P	44 - 106
Triclosan Methyl	59.4		P	59 - 109
Trifluralin	46.4		P	44 - 101

Reference Method: EPA 8276

Batch ID: P426832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	61.1		P	61 - 116
Toxaphene	73.4		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P426535

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	97.8		P	40 - 150
AMPA	106		P	40 - 150
Endothall	96.7		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	95.9		P	40 - 150
Sucralose	98.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	102		P	40 - 150
2,4,5-T	82.7		P	40 - 150
Acetaminophen	96.4		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P426586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetamiprid	82.6		P	40 - 150
Afidopyropen	60.2		P	30 - 150
Bentazon	109		P	30 - 150
Benzovindiflupyr	82.6		P	40 - 150
Carbamazepine	82.4		P	40 - 150
Clothianidin	94.1		P	40 - 150
Dinotefuran	96.2		P	40 - 150
Diuron	76.0		P	40 - 150
Fenuron	93.5		P	40 - 150
Fluridone	75.0		P	40 - 150
Hydrocodone	95.6		P	40 - 150
Ibuprofen	68.9		P	40 - 150
Imazapyr	96.7		P	40 - 150
Imidacloprid	91.8		P	40 - 150
Linuron	68.5		P	40 - 150
Mandestrobin	90.9		P	40 - 150
MCPP	85.3		P	40 - 150
Naproxen	113		P	40 - 150
Primidone	90.7		P	40 - 150
Pyraclostrobin	76.0		P	40 - 150
Silvex	104		P	40 - 150
Thiamethoxam	91.4		P	40 - 150
Tolfenpyrad	57.8		P	30 - 150
Triclopyr	85.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426587

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	82.6		P	40 - 150
Aldicarb	93.9		P	30 - 150
Aldicarb Sulfone	94.7		P	40 - 150
Aldicarb Sulfoxide	99.3		P	40 - 150
Carbaryl	90.4		P	40 - 150
Carbofuran	81.5		P	40 - 150
Methiocarb	79.2		P	40 - 150
Methomyl	95.1		P	40 - 150
Oxamyl	91.3		P	40 - 150
Propoxur	82.7		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P426900

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.8		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P427176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.1		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P426964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.5		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P426903

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426935

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390788	Calcium	109		P	80 - 120
2390788	Iron	105	112	P/P	80 - 120
2390788	Magnesium	110		P	80 - 120
2390788	Potassium	98.2	104	P/P	80 - 120
2390788	Sodium	99.9	110	P/P	80 - 120
2390788	Strontium	98.7	105	P/P	80 - 120
2390788	Tin	101	105	P/P	80 - 120
2390788	Titanium	105	110	P/P	80 - 120
2390788	Vanadium	101	106	P/P	80 - 120
2390788	Zinc	97.3	102	P/P	80 - 120
2391077	Calcium	112		P	80 - 120
2391077	Iron	113		P	80 - 120
2391077	Magnesium	118		P	80 - 120
2391077	Potassium	108		P	80 - 120
2391077	Sodium	107		P	80 - 120
2391077	Strontium	107		P	80 - 120
2391077	Tin	106		P	80 - 120
2391077	Titanium	106		P	80 - 120
2391077	Vanadium	105		P	80 - 120
2391077	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390788	Aluminum	101	100	P/P	80 - 120
2390788	Antimony	104	105	P/P	80 - 120
2390788	Arsenic	105	105	P/P	80 - 120
2390788	Barium	104	105	P/P	80 - 120
2390788	Beryllium	99.2	99.2	P/P	80 - 120
2390788	Boron	102	102	P/P	80 - 120
2390788	Cadmium	105	105	P/P	80 - 120
2390788	Chromium	102	102	P/P	80 - 120
2390788	Cobalt	100	99.3	P/P	80 - 120
2390788	Copper	98.7	99.2	P/P	80 - 120
2390788	Lead	99.7	100	P/P	80 - 120
2390788	Manganese	104	103	P/P	80 - 120
2390788	Molybdenum	102	103	P/P	80 - 120
2390788	Nickel	101	101	P/P	80 - 120
2390788	Selenium	105	105	P/P	80 - 120
2390788	Silver	101	102	P/P	80 - 120
2390788	Thallium	102	105	P/P	80 - 120
2391077	Aluminum	99.7		P	80 - 120
2391077	Antimony	102		P	80 - 120
2391077	Arsenic	103		P	80 - 120
2391077	Barium	104		P	80 - 120
2391077	Beryllium	96.8		P	80 - 120
2391077	Boron	101		P	80 - 120
2391077	Cadmium	105		P	80 - 120
2391077	Chromium	102		P	80 - 120
2391077	Cobalt	99.9		P	80 - 120
2391077	Copper	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391077	Lead	101		P	80 - 120
2391077	Manganese	104		P	80 - 120
2391077	Molybdenum	99.6		P	80 - 120
2391077	Nickel	101		P	80 - 120
2391077	Selenium	106		P	80 - 120
2391077	Silver	99.9		P	80 - 120
2391077	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427000

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391219	Chloride	95.8		P	90 - 110
2391259	Chloride	96.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427003

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391219	Sulfate	100		P	90 - 110
2391259	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426732

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391231	Ammonia-N	97.4	97.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391265	Kjeldahl Nitrogen	94.7	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391322	NO2NO3-N	99.8	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391264	Total-P	101	98.0	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.1	99.1	P/P	26 - 165
2390328	Acetochlor	67.9	83.3	P/P	67 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	Alachlor	66.0	67.3	P/P	60 - 120
2390328	Ametryn	88.3	94.5	P/P	54 - 216
2390328	Atrazine	58.9	65.2	F/F	66 - 128
2390328	Atrazine Desethyl	37.8	49.4	P/P	15 - 122
2390328	Avobenzone	94.1	104	P/P	37 - 178
2390328	Azinphos Methyl	150	162	P/P	40 - 292
2390328	Azoxystrobin	51.6	57.2	P/P	35 - 220
2390328	Bromacil	57.7	78.0	P/P	45 - 127
2390328	Butylate	30.0	41.9	P/P	20 - 83.0
2390328	Caffeine	65.3	98.7	P/P	10 - 194
2390328	Carbophenothion	96.4	103	P/P	57 - 127
2390328	Carfentrazone Ethyl	59.2	61.8	P/P	51 - 141
2390328	Chlorfenapyr	52.9	57.9	P/P	46 - 111
2390328	Chlorpyrifos Ethyl	57.6	67.0	P/P	52 - 120
2390328	Chlorpyrifos Methyl	68.7	71.0	P/P	63 - 119
2390328	Coumaphos	105	123	P/P	10 - 228
2390328	Cyanazine	103	124	P/P	59 - 241
2390328	Cyprodinil	67.3	66.0	P/P	47 - 146
2390328	Dechlorane 602	65.6	71.1	P/P	50 - 150
2390328	Dechlorane 603	60.4	66.3	P/P	50 - 150
2390328	Dechlorane Plus	100	112	P/P	50 - 150
2390328	Demeton	43.9	45.0	P/P	40 - 136
2390328	Diazinon	102	126	P/P	69 - 132
2390328	Difenoconazole	124	141	P/P	57 - 258
2390328	Dimethenamid	54.5	69.6	P/P	54 - 110
2390328	Dimethomorph	35.3	40.4	P/P	28 - 210
2390328	Disulfoton	58.6	68.2	P/P	43 - 133
2390328	Dithiopyr	58.8	62.1	P/P	39 - 116
2390328	EPTC	20.9	37.9	P/P	20 - 78.0
2390328	Ethion	56.3	56.5	P/P	17 - 119
2390328	Ethoprop	75.3	97.7	P/P	66 - 120
2390328	Etridiazole	31.8	41.1	P/P	28 - 96.0
2390328	Fenamiphos	63.7	78.0	P/P	41 - 126
2390328	Fenbuconazole	106	119	P/P	42 - 169
2390328	Fipronil	70.8	75.2	P/P	61 - 132
2390328	Fipronil Desulfinyl	64.6	77.7	P/P	56 - 132
2390328	Fipronil Sulfide	66.7	70.8	P/P	48 - 119
2390328	Fipronil Sulfone	55.6	55.4	P/P	42 - 131
2390328	Fluazifop-P-butyl	72.4	68.5	P/P	53 - 131
2390328	Fludioxonil	75.6	83.9	P/P	56 - 127
2390328	Flumioxazin	116	144	P/P	19 - 300
2390328	Flutolanil	51.9	67.8	P/P	41 - 127
2390328	Fluxapyroxad	52.9	46.2	P/P	42 - 172
2390328	Fonofos	59.8	81.5	P/P	59 - 113
2390328	Hexabromobenzene	133	140	P/P	50 - 150
2390328	Hexazinone	62.8	60.5	F/F	66 - 122
2390328	Imazalil	37.2	41.0	P/P	21 - 283
2390328	Iprodione	77.3	91.5	P/P	43 - 150
2390328	Loratadine	28.1	26.3	P/P	23 - 201
2390328	Malathion	83.2	88.5	P/P	58 - 136
2390328	Metalaxyl	55.5	70.3	P/P	55 - 120
2390328	Metolachlor	58.6	74.0	P/P	57 - 121

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	Metribuzin	64.7	67.1	P/P	58 - 294
2390328	Mevinphos	62.0	83.8	P/P	50 - 126
2390328	Molinate	37.4	50.0	F/P	42 - 93.0
2390328	Myclobutanil	66.4	71.8	P/P	55 - 125
2390328	Naled	41.4	56.9	P/P	18 - 200
2390328	Napropamide	45.8	49.7	P/P	39 - 110
2390328	Norflurazon	61.3	76.7	P/P	48 - 128
2390328	Octinoxate	86.6	99.0	P/P	21 - 159
2390328	Oxadiazon	58.0	58.9	P/P	43 - 112
2390328	Oxybenzone	84.3	99.4	P/P	41 - 142
2390328	Oxyfluorfen	65.2	70.5	P/P	64 - 153
2390328	Parathion Ethyl	51.0	52.9	F/F	69 - 114
2390328	Parathion Methyl	102	111	P/P	79 - 139
2390328	PBB-153	92.0	101	P/P	50 - 150
2390328	PBDE-47	81.2	89.3	P/P	27 - 144
2390328	PBDE-99	78.3	85.4	P/P	18 - 150
2390328	Pendimethalin	85.3	84.1	P/P	50 - 139
2390328	Pentabromotoluene	123	133	P/P	50 - 150
2390328	Phenytoin	67.1	77.8	P/P	10 - 146
2390328	Phorate	55.0	59.1	P/P	54 - 161
2390328	Prodiamine	63.3	68.7	P/P	30 - 161
2390328	Prometon	87.5	77.8	P/P	45 - 134
2390328	Prometryn	50.9	59.7	P/P	45 - 137
2390328	Pronamide	67.0	85.2	P/P	65 - 133
2390328	Propanil	50.2	57.0	P/P	49 - 142
2390328	Propargite	49.1	51.8	P/P	10 - 203
2390328	Propiconazole	53.1	69.2	P/P	38 - 146
2390328	Pyraflufen Ethyl	59.8	78.8	P/P	34 - 153
2390328	Pyridaben	68.3	65.8	P/P	12 - 192
2390328	Pyriproxyfen	51.5	43.2	P/P	33 - 180
2390328	Simazine	104	124	P/P	51 - 157
2390328	Stiropfos	73.3	72.6	P/P	10 - 128
2390328	Sulfentrazone	89.8	109	P/P	53 - 186
2390328	Tebuconazole	65.4	71.4	P/P	10 - 133
2390328	Terbufos	98.4	119	P/P	65 - 139
2390328	Terbuthylazine	54.6	70.6	F/P	66 - 117
2390328	Tetradecachloro-m-terphenyl	108	113	P/P	70 - 200
2390328	Thiobencarb	56.9	66.4	P/P	51 - 119
2390328	Tri-o-cresyl Phosphate	88.6	100	P/P	31 - 144
2390328	Triadimefon	48.1	48.9	P/P	48 - 119
2390328	Tris(1-chloro-2-propyl) phosphate (TCPP)	118	130	P/P	50 - 150
2390328	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	119	126	P/P	50 - 150
2390328	Tris(2-chloroethyl) phosphate (TCEP)	127	143	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390549	PCB-1016	59.3	47.8	P/P	46 - 111
2390549	PCB-1260	57.0	44.8	P/F	45 - 114
2390746	Aldrin	47.0	49.9	P/P	20 - 82.0
2390746	Alpha-BHC	82.5	79.6	P/P	71 - 109

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390746	Alpha-Chlordane	70.2	71.3	P/P	42 - 106
2390746	Beta-BHC	87.3	86.7	P/P	69 - 180
2390746	Beta-Cyfluthrin	57.4	63.9	P/P	18 - 175
2390746	Bifenthrin	47.9	56.0	P/P	21 - 128
2390746	Chlorothalonil	54.1	58.7	P/P	10 - 300
2390746	Cis-Nonachlor	63.2	64.9	P/P	34 - 106
2390746	Cypermethrin	57.2	63.2	P/P	22 - 158
2390746	Dacthal	85.2	86.3	P/P	54 - 116
2390746	DDD-p,p'	67.8	72.4	P/P	34 - 107
2390746	DDE-p,p'	66.9	70.3	P/P	33 - 110
2390746	DDT-p,p'	64.5	65.0	P/P	50 - 122
2390746	Delta-BHC	83.8	79.9	P/P	77 - 193
2390746	Deltamethrin	64.1	70.8	P/P	10 - 195
2390746	Dichlobenil	58.3	60.8	P/P	25 - 113
2390746	Dicofol	68.8	67.6	P/P	38 - 247
2390746	Dieldrin	74.1	76.6	P/P	45 - 118
2390746	Endosulfan I	68.3	69.3	P/P	51 - 106
2390746	Endosulfan II	73.8	81.5	P/P	37 - 122
2390746	Endosulfan Sulfate	78.3	76.2	P/P	43 - 132
2390746	Endrin	75.6	78.8	P/P	29 - 101
2390746	Endrin Aldehyde	70.9	73.2	P/P	19 - 110
2390746	Endrin Ketone	83.9	108	P/P	60 - 140
2390746	Esfenvalerate	57.7	63.8	P/P	26 - 199
2390746	Ethalfuralin	68.8	68.3	P/P	45 - 99.0
2390746	Fenpropathrin	60.8	63.1	P/P	35 - 120
2390746	Gamma-BHC	87.9	84.0	P/P	63 - 128
2390746	Gamma-Chlordane	64.5	68.0	P/P	40 - 104
2390746	Heptachlor	57.1	59.3	P/P	36 - 97.0
2390746	Heptachlor Epoxide	75.0	75.2	P/P	49 - 184
2390746	Hexachlorobenzene	50.8	55.7	P/P	39 - 96.0
2390746	Kepone	58.4	57.0	P/P	10 - 217
2390746	Lambda-Cyhalothrin	51.4	58.6	P/P	21 - 193
2390746	Methoprene	54.9	62.1	P/P	20 - 106
2390746	Methoxychlor	74.6	73.4	P/P	53 - 118
2390746	MGK-264	77.0	74.7	P/P	40 - 118
2390746	Mirex	48.7	56.4	P/P	26 - 92.0
2390746	Oxychlordane	64.4	69.1	P/P	44 - 99.0
2390746	Permethrin	57.5	64.7	P/P	33 - 182
2390746	Phenothrin	48.3	59.9	P/P	10 - 129
2390746	Piperonyl Butoxide	78.2	77.0	P/P	10 - 211
2390746	Prallethrin	64.2	64.4	P/P	24 - 113
2390746	Tau-Fluvalinate	51.3	57.8	P/P	14 - 149
2390746	Tetramethrin	69.2	69.5	P/P	17 - 151
2390746	Trans-Nonachlor	64.6	67.2	P/P	42 - 102
2390746	Triclosan Methyl	73.7	75.1	P/P	48 - 108
2390746	Trifluralin	70.0	70.0	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390549	Chlordane	46.2	34.0	F/F	53 - 126

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390549	Toxaphene	54.6	41.2	F/F	56 - 211

Reference Method: EPA 8321B
Batch ID: P426535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390312	Acesulfame K	123	126	P/P	40 - 150
2390312	AMPA	88.2	89.8	P/P	40 - 150
2390312	Endothall	106	106	P/P	40 - 150
2390312	Glufosinate	102	100	P/P	40 - 150
2390312	Glyphosate	96.2	111	P/P	40 - 150
2390312	Sucralose	96.8	98.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391073	2,4-D	109	105	P/P	40 - 150
2391073	2,4,5-T	89.0	89.3	P/P	40 - 150
2391073	Acetaminophen	102	110	P/P	30 - 150
2391073	Acetamiprid	96.4	87.4	P/P	40 - 150
2391073	Afidopyrophen	73.1	39.7	P/P	30 - 150
2391073	Bentazon	116	115	P/P	30 - 150
2391073	Benzovindiflupyr	91.7	90.3	P/P	40 - 150
2391073	Carbamazepine	82.4	78.3	P/P	40 - 150
2391073	Clothianidin	99.0	96.4	P/P	40 - 150
2391073	Dinotefuran	101	99.6	P/P	40 - 150
2391073	Diuron	82.0	72.3	P/P	40 - 150
2391073	Fenuron	92.8	91.7	P/P	40 - 150
2391073	Fluridone	74.9	77.6	P/P	40 - 150
2391073	Hydrocodone	104	91.4	P/P	40 - 150
2391073	Ibuprofen	71.6	75.8	P/P	40 - 150
2391073	Imazapyr	95.0	88.8	P/P	40 - 150
2391073	Imidacloprid	118	116	P/P	40 - 150
2391073	Linuron	77.1	63.3	P/P	40 - 150
2391073	Mandestrobin	91.2	93.3	P/P	40 - 150
2391073	MCPP	101	88.6	P/P	40 - 150
2391073	Naproxen	96.2	72.9	P/P	40 - 150
2391073	Primidone	96.1	91.9	P/P	40 - 150
2391073	Pyraclostrobin	78.2	79.6	P/P	40 - 150
2391073	Silvex	99.0	91.5	P/P	40 - 150
2391073	Thiamethoxam	108	97.6	P/P	40 - 150
2391073	Tolfenpyrad	60.6	58.8	P/P	30 - 150
2391073	Triclopyr	90.2	82.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426587

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390526	3-Hydroxycarbofuran	69.2	71.0	P/P	40 - 150
2390526	Aldicarb	38.1	29.8	P/F	30 - 150
2390526	Aldicarb Sulfone	78.5	87.6	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P426587

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390526	Aldicarb Sulfoxide	30.8	29.5	F/F	40 - 150
2390526	Carbaryl	53.6	56.4	P/P	40 - 150
2390526	Carbofuran	44.8	44.9	P/P	40 - 150
2390526	Methiocarb	63.2	58.2	P/P	40 - 150
2390526	Methomyl	60.9	60.7	P/P	40 - 150
2390526	Oxamyl	72.8	78.5	P/P	40 - 150
2390526	Propoxur	35.6	40.4	F/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P426903

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391088	Fluoride	105	104	F/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391264	Organic Carbon	96.4	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P426622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391260	Color (true)	4.20	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391172	Turbidity	3.73	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426646

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390788	Calcium	5.70	Spike	P	0 - 20
2390788	Iron	5.97	Spike	P	0 - 20
2390788	Magnesium	5.95	Spike	P	0 - 20
2390788	Potassium	5.53	Spike	P	0 - 20
2390788	Sodium	5.29	Spike	P	0 - 20
2390788	Strontium	6.01	Spike	P	0 - 20
2390788	Tin	4.55	Spike	P	0 - 20
2390788	Titanium	4.07	Spike	P	0 - 20
2390788	Vanadium	4.69	Spike	P	0 - 20
2390788	Zinc	3.80	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426646

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390788	Aluminum	0.178	Spike	P	0 - 20
2390788	Antimony	1.54	Spike	P	0 - 20
2390788	Arsenic	0.490	Spike	P	0 - 20
2390788	Barium	1.16	Spike	P	0 - 20
2390788	Beryllium	0.0194	Spike	P	0 - 20
2390788	Boron	0.0690	Spike	P	0 - 20
2390788	Cadmium	0.0892	Spike	P	0 - 20
2390788	Chromium	0.0778	Spike	P	0 - 20
2390788	Cobalt	0.991	Spike	P	0 - 20
2390788	Copper	0.496	Spike	P	0 - 20
2390788	Lead	0.738	Spike	P	0 - 20
2390788	Manganese	0.603	Spike	P	0 - 20
2390788	Molybdenum	0.700	Spike	P	0 - 20
2390788	Nickel	0.0782	Spike	P	0 - 20
2390788	Selenium	0.299	Spike	P	0 - 20
2390788	Silver	0.928	Spike	P	0 - 20
2390788	Thallium	2.25	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427000

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391219	Chloride	2.19	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391231	Ammonia-N	0.193	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391265	Kjeldahl Nitrogen	4.16	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391322	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391264	Total-P	2.70	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.7	Spike	P	0 - 37
2390328	Acetochlor	20.4	Spike	P	0 - 28
2390328	Alachlor	1.93	Spike	P	0 - 30
2390328	Ametryn	6.81	Spike	P	0 - 32
2390328	Atrazine	10.1	Spike	P	0 - 41
2390328	Atrazine Desethyl	26.7	Spike	P	0 - 36
2390328	Avobenzone	9.86	Spike	P	0 - 36
2390328	Azinphos Methyl	7.81	Spike	P	0 - 75
2390328	Azoxystrobin	10.3	Spike	P	0 - 39
2390328	Bromacil	30.0	Spike	P	0 - 33
2390328	Butylate	33.3	Spike	P	0 - 44
2390328	Caffeine	39.4	Spike	P	0 - 74
2390328	Carbophenothion	6.44	Spike	P	0 - 25
2390328	Carfentrazone Ethyl	4.32	Spike	P	0 - 27
2390328	Chlorfenapyr	8.91	Spike	P	0 - 24
2390328	Chlorpyrifos Ethyl	15.0	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	Chlorpyrifos Methyl	3.36	Spike	P	0 - 26
2390328	Coumaphos	15.8	Spike	P	0 - 28
2390328	Cyanazine	18.6	Spike	P	0 - 48
2390328	Cyprodinil	1.84	Spike	P	0 - 29
2390328	Dechlorane 602	7.93	Spike	P	0 - 30
2390328	Dechlorane 603	9.18	Spike	P	0 - 30
2390328	Dechlorane Plus	11.0	Spike	P	0 - 30
2390328	Demeton	2.28	Spike	P	0 - 33
2390328	Diazinon	20.8	Spike	P	0 - 29
2390328	Difenoconazole	12.6	Spike	P	0 - 34
2390328	Dimethenamid	24.3	Spike	P	0 - 39
2390328	Dimethomorph	13.7	Spike	P	0 - 51
2390328	Disulfoton	15.0	Spike	P	0 - 30
2390328	Dithiopyr	5.44	Spike	P	0 - 26
2390328	EPTC	57.8	Spike	F	0 - 43
2390328	Ethion	0.235	Spike	P	0 - 79
2390328	Ethoprop	26.0	Spike	P	0 - 29
2390328	Etridiazole	25.6	Spike	P	0 - 33
2390328	Fenamiphos	20.2	Spike	P	0 - 40
2390328	Fenbuconazole	11.0	Spike	P	0 - 74
2390328	Fipronil	5.93	Spike	P	0 - 29
2390328	Fipronil Desulfinyf	18.3	Spike	P	0 - 32
2390328	Fipronil Sulfide	5.66	Spike	P	0 - 30
2390328	Fipronil Sulfone	0.429	Spike	P	0 - 33
2390328	Fluazifop-P-butyl	5.55	Spike	P	0 - 38
2390328	Fludioxonil	10.4	Spike	P	0 - 29
2390328	Flumioxazin	21.2	Spike	P	0 - 51
2390328	Flutolanil	22.9	Spike	P	0 - 25
2390328	Fluxapyroxad	13.6	Spike	P	0 - 45
2390328	Fonofos	30.6	Spike	F	0 - 27
2390328	Hexabromobenzene	5.53	Spike	P	0 - 30
2390328	Hexazinone	3.58	Spike	P	0 - 30
2390328	Imazalil	9.85	Spike	P	0 - 100
2390328	Iprodione	16.9	Spike	P	0 - 33
2390328	Loratadine	6.68	Spike	P	0 - 56
2390328	Malathion	6.18	Spike	P	0 - 37
2390328	Metalaxyl	20.6	Spike	P	0 - 40
2390328	Metolachlor	17.8	Spike	P	0 - 29
2390328	Metribuzin	3.78	Spike	P	0 - 45
2390328	Mevinphos	30.0	Spike	F	0 - 29
2390328	Molinate	28.8	Spike	P	0 - 33
2390328	Myclobutanil	7.77	Spike	P	0 - 26
2390328	Naled	31.6	Spike	P	0 - 37
2390328	Napropamide	8.33	Spike	P	0 - 44
2390328	Norflurazon	22.4	Spike	P	0 - 30
2390328	Octinoxate	13.3	Spike	P	0 - 45
2390328	Oxadiazon	1.57	Spike	P	0 - 28
2390328	Oxybenzone	16.5	Spike	P	0 - 46
2390328	Oxyfluorfen	7.82	Spike	P	0 - 28
2390328	Parathion Ethyl	3.63	Spike	P	0 - 31
2390328	Parathion Methyl	8.57	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	PBB-153	9.05	Spike	P	0 - 30
2390328	PBDE-47	9.53	Spike	P	0 - 36
2390328	PBDE-99	8.72	Spike	P	0 - 40
2390328	Pendimethalin	1.31	Spike	P	0 - 33
2390328	Pentabromotoluene	7.46	Spike	P	0 - 30
2390328	Phenytoin	14.9	Spike	P	0 - 100
2390328	Phorate	7.17	Spike	P	0 - 36
2390328	Prodiamine	8.20	Spike	P	0 - 71
2390328	Prometon	11.7	Spike	P	0 - 36
2390328	Prometryn	15.9	Spike	P	0 - 28
2390328	Pronamide	23.9	Spike	P	0 - 24
2390328	Propanil	12.6	Spike	P	0 - 28
2390328	Propargite	5.33	Spike	P	0 - 43
2390328	Propiconazole	26.4	Spike	P	0 - 33
2390328	Pyraflufen Ethyl	27.4	Spike	P	0 - 29
2390328	Pyridaben	3.70	Spike	P	0 - 30
2390328	Pyriproxyfen	17.5	Spike	P	0 - 79
2390328	Simazine	17.9	Spike	P	0 - 29
2390328	Stiropfos	0.922	Spike	P	0 - 61
2390328	Sulfentrazone	19.2	Spike	P	0 - 33
2390328	Tebuconazole	8.71	Spike	P	0 - 69
2390328	Terbufos	19.0	Spike	P	0 - 29
2390328	Terbuthylazine	25.5	Spike	P	0 - 32
2390328	Tetradecachloro-m-terphenyl	4.74	Spike	P	0 - 30
2390328	Thiobencarb	15.4	Spike	P	0 - 26
2390328	Tri-o-cresyl Phosphate	12.3	Spike	P	0 - 33
2390328	Triadimefon	1.60	Spike	P	0 - 28
2390328	Tris(1-chloro-2-propyl) phosphate (TCPP)	7.91	Spike	P	0 - 30
2390328	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	5.63	Spike	P	0 - 30
2390328	Tris(2-chloroethyl) phosphate (TCEP)	11.6	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P426832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390549	PCB-1016	22.2	Spike	P	0 - 32
2390549	PCB-1260	24.5	Spike	P	0 - 31
2390746	Aldrin	6.11	Spike	P	0 - 41
2390746	Alpha-BHC	3.60	Spike	P	0 - 25
2390746	Alpha-Chlordane	1.58	Spike	P	0 - 33
2390746	Beta-BHC	0.677	Spike	P	0 - 36
2390746	Beta-Cyfluthrin	10.8	Spike	P	0 - 42
2390746	Bifenthrin	15.5	Spike	P	0 - 53
2390746	Chlorothalonil	8.10	Spike	P	0 - 71
2390746	Cis-Nonachlor	2.66	Spike	P	0 - 29
2390746	Cypermethrin	10.0	Spike	P	0 - 40
2390746	Dacthal	1.27	Spike	P	0 - 26
2390746	DDD-p,p'	6.57	Spike	P	0 - 39
2390746	DDE-p,p'	4.90	Spike	P	0 - 33
2390746	DDT-p,p'	0.794	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P426832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390746	Delta-BHC	4.72	Spike	P	0 - 37
2390746	Deltamethrin	9.96	Spike	P	0 - 100
2390746	Dichlobenil	4.34	Spike	P	0 - 40
2390746	Dicofol	1.74	Spike	P	0 - 31
2390746	Dieldrin	2.61	Spike	P	0 - 27
2390746	Endosulfan I	1.42	Spike	P	0 - 23
2390746	Endosulfan II	10.0	Spike	P	0 - 28
2390746	Endosulfan Sulfate	2.82	Spike	P	0 - 38
2390746	Endrin	4.20	Spike	P	0 - 63
2390746	Endrin Aldehyde	3.18	Spike	P	0 - 60
2390746	Endrin Ketone	25.2	Spike	P	0 - 37
2390746	Esfenvalerate	10.1	Spike	P	0 - 52
2390746	Ethalfuralin	0.732	Spike	P	0 - 23
2390746	Fenpropathrin	3.60	Spike	P	0 - 32
2390746	Gamma-BHC	4.56	Spike	P	0 - 17
2390746	Gamma-Chlordane	5.37	Spike	P	0 - 40
2390746	Heptachlor	3.89	Spike	P	0 - 29
2390746	Heptachlor Epoxide	0.358	Spike	P	0 - 25
2390746	Hexachlorobenzene	9.14	Spike	P	0 - 36
2390746	Kepone	2.51	Spike	P	0 - 93
2390746	Lambda-Cyhalothrin	13.1	Spike	P	0 - 55
2390746	Methoprene	12.4	Spike	P	0 - 53
2390746	Methoxychlor	1.65	Spike	P	0 - 29
2390746	MGK-264	3.06	Spike	P	0 - 35
2390746	Mirex	14.6	Spike	P	0 - 46
2390746	Oxychlordane	7.02	Spike	P	0 - 29
2390746	Permethrin	11.8	Spike	P	0 - 44
2390746	Phenothrin	21.4	Spike	P	0 - 56
2390746	Piperonyl Butoxide	1.51	Spike	P	0 - 100
2390746	Prallethrin	0.390	Spike	P	0 - 42
2390746	Tau-Fluvalinate	11.9	Spike	P	0 - 54
2390746	Tetramethrin	0.314	Spike	P	0 - 51
2390746	Trans-Nonachlor	3.95	Spike	P	0 - 37
2390746	Triclosan Methyl	1.87	Spike	P	0 - 31
2390746	Trifluralin	0.0592	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P426832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390549	Chlordane	30.9	Spike	F	0 - 25
2390549	Toxaphene	23.4	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P426535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390312	Acesulfame K	2.32	Spike	P	0 - 30
2390312	AMPA	1.89	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P426535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390312	Endothall	0.705	Spike	P	0 - 30
2390312	Glufosinate	1.67	Spike	P	0 - 30
2390312	Glyphosate	14.3	Spike	P	0 - 30
2390312	Sucralose	1.75	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P426586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391073	2,4-D	3.81	Spike	P	0 - 30
2391073	2,4,5-T	0.269	Spike	P	0 - 30
2391073	Acetaminophen	7.50	Spike	P	0 - 30
2391073	Acetamiprid	9.85	Spike	P	0 - 30
2391073	Afidopyropen	59.2	Spike	F	0 - 30
2391073	Bentazon	1.51	Spike	P	0 - 30
2391073	Benzovindiflupyr	1.53	Spike	P	0 - 30
2391073	Carbamazepine	5.16	Spike	P	0 - 30
2391073	Clothianidin	2.61	Spike	P	0 - 30
2391073	Dinotefuran	0.937	Spike	P	0 - 30
2391073	Diuron	12.5	Spike	P	0 - 30
2391073	Fenuron	1.19	Spike	P	0 - 30
2391073	Fluridone	3.56	Spike	P	0 - 30
2391073	Hydrocodone	13.3	Spike	P	0 - 30
2391073	Ibuprofen	5.67	Spike	P	0 - 30
2391073	Imazapyr	6.74	Spike	P	0 - 30
2391073	Imidacloprid	1.28	Spike	P	0 - 30
2391073	Linuron	19.6	Spike	P	0 - 30
2391073	Mandestrobin	2.26	Spike	P	0 - 30
2391073	MCPP	12.8	Spike	P	0 - 30
2391073	Naproxen	27.5	Spike	P	0 - 30
2391073	Primidone	4.44	Spike	P	0 - 30
2391073	Pyraclostrobin	1.77	Spike	P	0 - 30
2391073	Silvex	7.95	Spike	P	0 - 30
2391073	Thiamethoxam	10.2	Spike	P	0 - 30
2391073	Tolfenpyrad	3.12	Spike	P	0 - 30
2391073	Triclopyr	9.28	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P426587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390526	3-Hydroxycarbofuran	2.54	Spike	P	0 - 30
2390526	Aldicarb	24.5	Spike	P	0 - 30
2390526	Aldicarb Sulfone	10.9	Spike	P	0 - 30
2390526	Aldicarb Sulfoxide	4.58	Spike	P	0 - 30
2390526	Carbaryl	5.06	Spike	P	0 - 30
2390526	Carbofuran	0.168	Spike	P	0 - 30
2390526	Methiocarb	8.27	Spike	P	0 - 30
2390526	Methomyl	0.324	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P426587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390526	Oxamyl	7.60	Spike	P	0 - 30
2390526	Propoxur	12.5	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P426900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391088	Total Alkalinity	0.711	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P427176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390616	TDS	3.04	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P426903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391088	Fluoride	0.979	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P426935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391264	Organic Carbon	0.394	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2391301
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	48.3	P	30 - 160

Lab Sample ID: 2391302
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	85.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	117	P	30 - 160
EPA 8321B	Carbamazepine-d10	54.7	P	30 - 160
EPA 8321B	Diuron-d6	40.2	P	30 - 160
EPA 8321B	Endothall-d6	105	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	48.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.0	P	30 - 160
EPA 8321B	Primidone-d5	98.1	P	30 - 160
EPA 8321B	Sucralose-d6	95.1	P	30 - 160

Lab Sample ID: 2391305
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	63.6	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	47.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	44.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	44.3	P	30 - 101
EPA 8276	PCNB	57.0	P	48 - 121

Lab Sample ID: 2391306
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	105	P	20 - 200
EPA 8270E	Simazine-d10	99.1	P	62 - 142
EPA 8270E	Terbufos-d10	106	P	58 - 132
EPA 8270E	Terphenyl-d14	112	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A117767

Included Lab Sample IDs: 2391287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.8	99.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117768

Included Lab Sample IDs: 2391287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A117818

Included Lab Sample IDs: 2391302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	104	103	P/P	60 - 160
Sucralose	103	107	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117821

Included Lab Sample IDs: 2391288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	99.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A117822

Included Lab Sample IDs: 2391302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	109	P/P	60 - 160
Endothall	103	105	P/P	60 - 160
Glufosinate	94.0	108	P/P	60 - 160
Glyphosate	91.4	101	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117833

Included Lab Sample IDs: 2391287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.6	97.7	P/P	90 - 110
Sulfate	102	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A117841

Included Lab Sample IDs: 2391307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	104	P/P	90 - 110
Antimony	102	104	P/P	90 - 110
Arsenic	103	104	P/P	90 - 110
Barium	102	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A117841

Included Lab Sample IDs: 2391307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	103	104	P/P	90 - 110
Boron	97.6	101	P/P	90 - 110
Cadmium	103	104	P/P	90 - 110
Chromium	101	101	P/P	90 - 110
Cobalt	99.4	100	P/P	90 - 110
Copper	99.2	100	P/P	90 - 110
Lead	97.8	99.6	P/P	90 - 110
Manganese	104	103	P/P	90 - 110
Molybdenum	99.4	99.8	P/P	90 - 110
Nickel	100	101	P/P	90 - 110
Selenium	107	108	P/P	90 - 110
Silver	100	100	P/P	90 - 110
Thallium	99.8	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A117850

Included Lab Sample IDs: 2391302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	90.3	103	P/P	50 - 150
2,4,5-T	81.9	84.4	P/P	50 - 150
Acetaminophen	107	103	P/P	60 - 160
Acetamiprid	113	110	P/P	50 - 150
Afidopyropen	87.9	112	P/P	50 - 150
Bentazon	129	119	P/P	50 - 160
Benzovindiflupyr	102	106	P/P	50 - 150
Carbamazepine	105	104	P/P	60 - 150
Clothianidin	113	101	P/P	60 - 150
Dinotefuran	99.5	98.3	P/P	50 - 150
Diuron	99.4	107	P/P	60 - 160
Fenuron	121	101	P/P	60 - 150
Fluridone	91.5	103	P/P	60 - 160
Hydrocodone	137	102	P/P	60 - 150
Ibuprofen	98.9	131	P/P	50 - 160
Imazapyr	118	93.4	P/P	50 - 150
Imidacloprid	108	99.6	P/P	60 - 150
Linuron	103	98.7	P/P	60 - 150
Mandestrobin	106	106	P/P	50 - 150
MCPP	96.6	88.5	P/P	50 - 150
Naproxen	123	73.1	P/P	50 - 160
Primidone	104	88.3	P/P	60 - 150
Pyraclostrobin	103	101	P/P	60 - 150
Silvex	102	79.8	P/P	50 - 150
Thiamethoxam	112	93.4	P/P	50 - 150
Tolfenpyrad	99.5	100	P/P	60 - 150
Triclopyr	93.7	98.6	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117863
Included Lab Sample IDs: 2391301

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	93.0	92.6	P/P	60 - 150
Aldicarb	96.5	110	P/P	60 - 150
Aldicarb Sulfone	97.4	92.3	P/P	50 - 150
Aldicarb Sulfoxide	103	104	P/P	50 - 150
Carbaryl	120	111	P/P	60 - 150
Carbofuran	101	107	P/P	50 - 150
Methiocarb	106	99.7	P/P	50 - 150
Methomyl	105	102	P/P	50 - 150
Oxamyl	99.0	99.7	P/P	50 - 150
Propoxur	107	108	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A117872
Included Lab Sample IDs: 2391288

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

Reference Method: EPA 8270E
Run ID: A117885
Included Lab Sample IDs: 2391306

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.3		P	80 - 120
Avobenzone	98.3		P	80 - 120
Dechlorane 602	92.7		P	80 - 120
Dechlorane 603	95.4		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	93.0		P	80 - 120
Octinoxate	97.1		P	80 - 120
Oxybenzone	101		P	80 - 120
PBB-153	94.1		P	80 - 120
PBDE-47	97.7		P	80 - 120
PBDE-99	102		P	80 - 120
Pentabromotoluene	95.5		P	80 - 120
Tetradecachloro-m-terphenyl	106		P	80 - 120
Tri-o-cresyl Phosphate	97.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.7		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	94.4		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A117887
Included Lab Sample IDs: 2391287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.6	94.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A117887
Included Lab Sample IDs: 2391287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	105	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A117892
Included Lab Sample IDs: 2391288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.6	96.0	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A117898
Included Lab Sample IDs: 2391288

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

Reference Method: EPA 8270E
Run ID: A117926
Included Lab Sample IDs: 2391305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	103		P	80 - 120
PCB-1260	111		P	80 - 120

Reference Method: EPA 8276
Run ID: A117934
Included Lab Sample IDs: 2391305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.7		P	80 - 120
Toxaphene	94.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117940
Included Lab Sample IDs: 2391305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.8		P	80 - 120
Alpha-BHC	99.7		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	101		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	118		P	80 - 120
Cis-Nonachlor	97.5		P	80 - 120
Cypermethrin	96.0		P	80 - 120
Dacthal	98.5		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	97.5		P	80 - 120
DDT-p,p'	98.7		P	80 - 120
Delta-BHC	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117940
Included Lab Sample IDs: 2391305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Deltamethrin	101		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	99.6		P	80 - 120
Endosulfan I	95.7		P	80 - 120
Endosulfan II	109		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin	95.8		P	80 - 120
Endrin Aldehyde	90.9		P	80 - 120
Endrin Ketone	96.5		P	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfuralin	98.3		P	80 - 120
Fenpropathrin	101		P	80 - 120
Gamma-BHC	99.5		P	80 - 120
Gamma-Chlordane	97.1		P	80 - 120
Heptachlor	98.4		P	80 - 120
Heptachlor Epoxide	94.8		P	80 - 120
Hexachlorobenzene	94.5		P	80 - 120
Kepone	64.1*		F	80 - 120
Lambda-Cyhalothrin	100		P	80 - 120
Methoprene	97.6		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	96.2		P	80 - 120
Oxychlordane	97.8		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	99.4		P	80 - 120
Piperonyl Butoxide	103		P	80 - 120
Prallethrin	95.9		P	80 - 120
Tau-Fluvalinate	104		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	95.9		P	80 - 120
Triclosan Methyl	96.6		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117951
Included Lab Sample IDs: 2391306

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	108		P	80 - 120
Alachlor	115		P	80 - 120
Ametryn	112		P	80 - 120
Atrazine	96.2		P	80 - 120
Atrazine Desethyl	97.9		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	99.8		P	80 - 120
Caffeine	109		P	80 - 120
Carbophenothion	119		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117951
Included Lab Sample IDs: 2391306

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	119		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	113		P	80 - 120
Coumaphos	107		P	80 - 120
Cyanazine	118		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	117		P	80 - 120
Difenoconazole	113		P	80 - 120
Dimethenamid	120		P	80 - 120
Dimethomorph	102		P	80 - 120
Disulfoton	108		P	80 - 120
Dithiopyr	114		P	80 - 120
EPTC	103		P	80 - 120
Ethion	108		P	80 - 120
Ethoprop	110		P	80 - 120
Etridiazole	110		P	80 - 120
Fenamiphos	110		P	80 - 120
Fenbuconazole	106		P	80 - 120
Fipronil	111		P	80 - 120
Fipronil Desulfinyl	113		P	80 - 120
Fipronil Sulfide	114		P	80 - 120
Fipronil Sulfone	111		P	80 - 120
Fluazifop-P-butyl	114		P	80 - 120
Fludioxonil	108		P	80 - 120
Flumioxazin	116		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	110		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	94.7		P	80 - 120
Iprodione	113		P	80 - 120
Loratadine	92.2		P	80 - 120
Malathion	110		P	80 - 120
Metalaxyl	118		P	80 - 120
Metolachlor	115		P	80 - 120
Metribuzin	94.7		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	105		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	111		P	80 - 120
Napropamide	116		P	80 - 120
Norflurazon	119		P	80 - 120
Oxadiazon	112		P	80 - 120
Oxyfluorfen	98.5		P	80 - 120
Parathion Ethyl	105		P	80 - 120
Parathion Methyl	117		P	80 - 120
Pendimethalin	119		P	80 - 120
Phenytion	109		P	80 - 120
Phorate	94.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117951
Included Lab Sample IDs: 2391306

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prodiamine	120		P	80 - 120
Prometon	95.1		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	109		P	80 - 120
Propanil	112		P	80 - 120
Propargite	114		P	80 - 120
Propiconazole	115		P	80 - 120
Pyraflufen Ethyl	114		P	80 - 120
Pyridaben	98.6		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	103		P	80 - 120
Stirophos	112		P	80 - 120
Sulfentrazone	112		P	80 - 120
Tebuconazole	118		P	80 - 120
Terbufos	113		P	80 - 120
Terbutylazine	102		P	80 - 120
Thiobencarb	114		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117978
Included Lab Sample IDs: 2391288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.8	99.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A118045
Included Lab Sample IDs: 2391307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	105	P/P	90 - 110
Iron	102	106	P/P	90 - 110
Magnesium	103	106	P/P	90 - 110
Potassium	101	104	P/P	90 - 110
Sodium	101	103	P/P	90 - 110
Strontium	98.6	98.4	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	99.5	100	P/P	90 - 110
Zinc	96.6	95.8	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	99.9				4.20	
EPA 180.1 Rev. 2.0	Turbidity	100				3.73	
EPA 200.7 Rev. 4.4	Calcium	110	109	112			5.70
	Iron	109	105	112	113		5.97
	Magnesium	110	110	118			5.95
	Potassium	105	98.2	104	108		5.53
	Sodium	106	99.9	110	107		5.29
	Strontium	102	98.7	105	107		6.01
	Tin	104	101	105	106		4.55
	Titanium	106	105	110	106		4.07
	Vanadium	102	101	106	105		4.69
	Zinc	102	97.3	102	101		3.80
EPA 200.8 Rev. 5.4	Aluminum	99.9	101	100	99.7		0.178
	Antimony	102	104	105	102		1.54
	Arsenic	102	105	105	103		0.490
	Barium	103	104	105	104		1.16
	Beryllium	99.6	99.2	99.2	96.8		0.0194
	Boron	101	102	102	101		0.0690
	Cadmium	104	105	105	105		0.0892
	Chromium	100	102	102	102		0.0778
	Cobalt	100	100	99.3	99.9		0.991
	Copper	100	98.7	99.2	101		0.496
	Lead	99.2	99.7	100	101		0.738
	Manganese	102	104	103	104		0.603
	Molybdenum	101	102	103	99.6		0.700
	Nickel	102	101	101	101		0.0782
	Selenium	105	105	105	106		0.299
	Silver	100	101	102	99.9		0.928
	Thallium	102	102	105	103		2.25
EPA 300.0 Rev. 2.1	Chloride	101	95.8	96.2		2.19	
	Sulfate	104	100	101			
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	97.4	97.2			0.193
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	94.7	100			4.16
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.8	99.8			0.0
EPA 365.1 Rev. 2.0	Total-P	98.3	101	98.0			2.70
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.2	89.1	99.1			10.7
	Acetochlor	89.7	67.9	83.3			20.4
	Alachlor	70.9	66.0	67.3			1.93
	Aldrin	29.8	47.0	49.9			6.11
	Alpha-BHC	68.9	82.5	79.6			3.60
	Alpha-Chlordane	58.5	70.2	71.3			1.58
	Ametryn	92.2	88.3	94.5			6.81
	Atrazine	59.8	58.9	65.2			10.1
	Atrazine Desethyl	51.0	37.8	49.4			26.7
	Avobenzone	113	94.1	104			9.86
	Azinphos Methyl	194	150	162			7.81
	Azoxystrobin	77.7	51.6	57.2			10.3
	Beta-BHC	75.2	87.3	86.7			0.677
	Beta-Cyfluthrin	38.2	57.4	63.9			10.8
	Bifenthrin	29.1	47.9	56.0			15.5
	Bromacil	75.4	57.7	78.0			30.0
	Butylate	35.4	30.0	41.9			33.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Caffeine	90.7	65.3	98.7			39.4
	Carbophenothion	63.0	96.4	103			6.44
	Carfentrazone Ethyl	62.0	59.2	61.8			4.32
	Chlorfenapyr	60.5	52.9	57.9			8.91
	Chlorothalonil	69.5	54.1	58.7			8.10
	Chlorpyrifos Ethyl	75.9	57.6	67.0			15.0
	Chlorpyrifos Methyl	96.6	68.7	71.0			3.36
	Cis-Nonachlor	46.9	63.2	64.9			2.66
	Coumaphos	135	105	123			15.8
	Cyanazine	135	103	124			18.6
	Cypermethrin	39.4	57.2	63.2			10.0
	Cyprodinil	73.0	67.3	66.0			1.84
	Dacthal	80.5	85.2	86.3			1.27
	DDD-p,p'	54.2	67.8	72.4			6.57
	DDE-p,p'	48.5	66.9	70.3			4.90
	DDT-p,p'	44.8	64.5	65.0			0.794
	Dechlorane 602	97.8	65.6	71.1			7.93
	Dechlorane 603	96.4	60.4	66.3			9.18
	Dechlorane Plus	123	100	112			11.0
	Delta-BHC	78.1	83.8	79.9			4.72
	Deltamethrin	45.4	64.1	70.8			9.96
	Demeton	45.3	43.9	45.0			2.28
	Diazinon	91.3	102	126			20.8
	Dichlobenil	44.1	58.3	60.8			4.34
	Dicofol	56.3	68.8	67.6			1.74
	Dieldrin	59.4	74.1	76.6			2.61
	Difenoconazole	157	124	141			12.6
	Dimethenamid	77.6	54.5	69.6			24.3
	Dimethomorph	37.0	35.3	40.4			13.7
	Disulfoton	62.6	58.6	68.2			15.0
	Dithiopyr	69.5	58.8	62.1			5.44
	Endosulfan I	59.4	68.3	69.3			1.42
	Endosulfan II	71.7	73.8	81.5			10.0
	Endosulfan Sulfate	75.3	78.3	76.2			2.82
	Endrin	61.7	75.6	78.8			4.20
	Endrin Aldehyde	63.0	73.2	70.9			3.18
	Endrin Ketone	72.2	108	83.9			25.2
	EPTC	25.8	20.9	37.9			57.8
	Esfenvalerate	38.3	63.8	57.7			10.1
	Ethalfuralin	50.2	68.3	68.8			0.732
	Ethion	61.6	56.3	56.5			0.235
	Ethoprop	92.5	75.3	97.7			26.0
	Etridiazole	63.7	31.8	41.1			25.6
	Fenamiphos	89.3	63.7	78.0			20.2
	Fenbuconazole	113	106	119			11.0
	Fenpropathrin	40.4	63.1	60.8			3.60
	Fipronil	85.6	70.8	75.2			5.93
	Fipronil Desulfinyl	78.4	64.6	77.7			18.3
	Fipronil Sulfide	79.5	66.7	70.8			5.66
	Fipronil Sulfone	60.9	55.6	55.4			0.429
	Fluazifop-P-butyl	76.0	72.4	68.5			5.55
	Fludioxonil	80.7	75.6	83.9			10.4
	Flumioxazin	166	116	144			21.2
	Flutolanil	76.3	51.9	67.8			22.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fluxapyroxad	42.8	52.9	46.2			13.6
	Fonofos	82.2	59.8	81.5			30.6
	Gamma-BHC	111	84.0	87.9			4.56
	Gamma-Chlordane	47.3	68.0	64.5			5.37
	Heptachlor	58.5	59.3	57.1			3.89
	Heptachlor Epoxide	71.6	75.2	75.0			0.358
	Hexabromobenzene	131	133	140			5.53
	Hexachlorobenzene	37.3	55.7	50.8			9.14
	Hexazinone	65.2	62.8	60.5			3.58
	Imazalil	49.8	37.2	41.0			9.85
	Iprodione	109	77.3	91.5			16.9
	Kepone	38.7	57.0	58.4			2.51
	Lambda-Cyhalothrin	32.6	58.6	51.4			13.1
	Loratadine	24.5	28.1	26.3			6.68
	Malathion	97.7	83.2	88.5			6.18
	Metalaxyl	88.0	55.5	70.3			20.6
	Methoprene	36.4	62.1	54.9			12.4
	Methoxychlor	61.5	73.4	74.6			1.65
	Metolachlor	65.6	58.6	74.0			17.8
	Metribuzin	41.2	64.7	67.1			3.78
	Mevinphos	81.1	62.0	83.8			30.0
	MGK-264	66.7	74.7	77.0			3.06
	Mirex	31.2	56.4	48.7			14.6
	Molinate	44.6	37.4	50.0			28.8
	Myclobutanil	69.3	66.4	71.8			7.77
	Naled	52.5	41.4	56.9			31.6
	Napropamide	62.5	45.8	49.7			8.33
	Norflurazon	76.3	61.3	76.7			22.4
	Octinoxate	97.4	86.6	99.0			13.3
	Oxadiazon	67.8	58.0	58.9			1.57
	Oxybenzone	96.5	84.3	99.4			16.5
	Oxychlordane	47.0	69.1	64.4			7.02
	Oxyfluorfen	71.9	65.2	70.5			7.82
	Parathion Ethyl	60.4	51.0	52.9			3.63
	Parathion Methyl	77.1	102	111			8.57
	PBB-153	124	92.0	101			9.05
	PBDE-47	85.7	81.2	89.3			9.53
	PBDE-99	81.4	78.3	85.4			8.72
	PCB-1016	67.0	59.3	47.8			22.2
	PCB-1260	66.7	57.0	44.8			24.5
	Pendimethalin	90.7	85.3	84.1			1.31
	Pentabromotoluene	125	123	133			7.46
	Permethrin	38.5	64.7	57.5			11.8
	Phenothrin	31.1	59.9	48.3			21.4
	Phenytoin	73.9	67.1	77.8			14.9
	Phorate	70.4	55.0	59.1			7.17
	Piperonyl Butoxide	70.4	77.0	78.2			1.51
	Prallethrin	53.7	64.4	64.2			0.390
	Prodiamine	74.7	63.3	68.7			8.20
	Prometon	82.6	87.5	77.8			11.7
	Prometryn	72.8	50.9	59.7			15.9
	Pronamide	85.4	67.0	85.2			23.9
	Propanil	56.9	50.2	57.0			12.6
	Propargite	57.0	49.1	51.8			5.33

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Propiconazole	60.4	53.1	69.2		26.4
	Pyraflufen Ethyl	72.4	59.8	78.8		27.4
	Pyridaben	94.5	68.3	65.8		3.70
	Pyriproxyfen	42.6	51.5	43.2		17.5
	Simazine	89.0	104	124		17.9
	Stirophos	91.5	73.3	72.6		0.922
	Sulfentrazone	107	89.8	109		19.2
	Tau-Fluvalinate	31.2	57.8	51.3		11.9
	Tebuconazole	69.0	65.4	71.4		8.71
	Terbufos	67.6	98.4	119		19.0
	Terbutylazine	75.6	54.6	70.6		25.5
	Tetradecachloro-m-terphenyl	153	108	113		4.74
	Tetramethrin	61.3	69.5	69.2		0.314
	Thiobencarb	69.2	56.9	66.4		15.4
	Trans-Nonachlor	45.6	67.2	64.6		3.95
	Tri-o-cresyl Phosphate	100	88.6	100		12.3
	Triadimefon	57.0	48.1	48.9		1.60
	Triclosan Methyl	59.4	75.1	73.7		1.87
	Trifluralin	46.4	70.0	70.0		0.0592
	Tris(1-chloro-2-propyl) phosphate (TCPP)	148	118	130		7.91
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	127	119	126		5.63
	Tris(2-chloroethyl) phosphate (TCEP)	134	127	143		11.6
EPA 8276	Chlordane	61.1	46.2	34.0		30.9
	Toxaphene	73.4	54.6	41.2		23.4
EPA 8321B	2,4-D	102	109	105		3.81
	2,4,5-T	82.7	89.0	89.3		0.269
	3-Hydroxycarbofuran	82.6	69.2	71.0		2.54
	Acesulfame K	97.8	123	126		2.32
	Acetaminophen	96.4	102	110		7.50
	Acetamiprid	82.6	96.4	87.4		9.85
	Afidopyropen	60.2	73.1	39.7		59.2
	Aldicarb	93.9	38.1	29.8		24.5
	Aldicarb Sulfone	94.7	78.5	87.6		10.9
	Aldicarb Sulfoxide	99.3	30.8	29.5		4.58
	AMPA	106	88.2	89.8		1.89
	Bentazon	109	116	115		1.51
	Benzovindiflupyr	82.6	91.7	90.3		1.53
	Carbamazepine	82.4	82.4	78.3		5.16
	Carbaryl	90.4	53.6	56.4		5.06
	Carbofuran	81.5	44.8	44.9		0.168
	Clothianidin	94.1	99.0	96.4		2.61
	Dinotefuran	96.2	101	99.6		0.937
	Diuron	76.0	82.0	72.3		12.5
	Endothall	96.7	106	106		0.705
	Fenuron	93.5	92.8	91.7		1.19
	Fluridone	75.0	74.9	77.6		3.56
	Glufosinate	105	102	100		1.67
	Glyphosate	95.9	96.2	111		14.3
	Hydrocodone	95.6	104	91.4		13.3
	Ibuprofen	68.9	71.6	75.8		5.67
	Imazapyr	96.7	95.0	88.8		6.74

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Imidacloprid	91.8	118	116		1.28
	Linuron	68.5	77.1	63.3		19.6
	Mandestrobin	90.9	91.2	93.3		2.26
	MCPP	85.3	101	88.6		12.8
	Methiocarb	79.2	63.2	58.2		8.27
	Methomyl	95.1	60.9	60.7		0.324
	Naproxen	113	96.2	72.9		27.5
	Oxamyl	91.3	72.8	78.5		7.60
	Primidone	90.7	96.1	91.9		4.44
	Propoxur	82.7	35.6	40.4		12.5
	Pyraclostrobin	76.0	78.2	79.6		1.77
	Silvex	104	99.0	91.5		7.95
	Sucralose	98.4	96.8	98.6		1.75
	Thiamethoxam	91.4	108	97.6		10.2
	Tolfenpyrad	57.8	60.6	58.8		3.12
	Triclopyr	85.0	90.2	82.2		9.28
SM 2320 B-2011	Total Alkalinity	94.8			0.711	
SM 2540 C-2015	TDS	95.1			3.04	
SM 2540 D-2015	TSS	99.5				
SM 4500-F- C-2011	Fluoride	103	105	104		0.979
SM 5310 B-2011	Organic Carbon	96.8	96.4	97.0		0.394

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2391287
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2391287
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2391307
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2391307
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2391287
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2391287
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2391288
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2391288
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2391288
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2391288
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2391306
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2391305
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2391306
EPA 8270E	PCBs in water matrices by GC/MS/MS	2391305
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2391305
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2391301
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2391302
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2391287
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2391307
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2391287
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2391287
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2391287
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2391288

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	03/02/2023			03/02/2023 15:44	Alexis Price	2391287
EPA 180.1 Rev. 2.0	03/02/2023			03/02/2023 14:42	Chandler E Cox	2391287
EPA 200.7 Rev. 4.4	03/02/2023	03/03/2023 13:20	George D Taylor	03/16/2023 16:37	Chase Roberts	2391307
	03/02/2023	03/03/2023 13:20	George D Taylor	03/16/2023 16:44	Chase Roberts	2391307
EPA 200.8 Rev. 5.4	03/02/2023	03/03/2023 13:20	George D Taylor	03/06/2023 19:05	Emily M Philpot	2391307
EPA 300.0 Rev. 2.1	03/02/2023			03/10/2023 08:37	Judith K. Clark	2391287
EPA 350.1 Rev. 2.0	03/02/2023			03/06/2023 12:31	Khloe J Berg	2391288
EPA 351.2 Rev. 2.0	03/02/2023	03/09/2023 14:00	Simonne.V. Calhoun	03/14/2023 12:26	Samantha L Bates	2391288
EPA 353.2 Rev. 2.0	03/02/2023			03/08/2023 10:52	Beverly Y. Sanders	2391288
EPA 365.1 Rev. 2.0	03/02/2023	03/08/2023 02:00	Alexis Price	03/09/2023 10:36	James L Waggeberby	2391288
EPA 8270E	03/02/2023	03/03/2023 09:00	Julie Wi	03/09/2023 00:23	Julie Wi	2391305
	03/02/2023	03/03/2023 09:00	Julie Wi	03/10/2023 01:31	Julie Wi	2391305
	03/02/2023	03/06/2023 08:00	Fe-Val Siddell	03/08/2023 20:12	Arthur Maknenko	2391306
	03/02/2023	03/06/2023 08:00	Fe-Val Siddell	03/09/2023 01:06	Michael Poppell	2391306
EPA 8276	03/02/2023	03/03/2023 09:00	Julie Wi	03/08/2023 10:22	Lipi Saha	2391305
EPA 8321B	03/02/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 14:41	Manjita Shrestha	2391302
	03/02/2023	03/03/2023 08:00	Manjita Shrestha	03/04/2023 01:25	Manjita Shrestha	2391302
	03/02/2023	03/03/2023 09:00	Hoor Shaik	03/03/2023 23:56	Juyoung Kim	2391302
	03/02/2023	03/06/2023 09:00	Hoor Shaik	03/07/2023 17:22	Juyoung Kim	2391301
SM 2320 B-2011	03/02/2023			03/09/2023 02:06	Adam P Silver	2391287
SM 2340 B-2011	03/02/2023			03/16/2023 16:37	Chase Roberts	2391307
SM 2540 C-2015	03/02/2023			03/03/2023 15:41	Yijie Li	2391287
SM 2540 D-2015	03/02/2023			03/03/2023 15:41	Yijie Li	2391287
SM 4500-F- C-2011	03/02/2023			03/09/2023 02:06	Adam P Silver	2391287
SM 5310 B-2011	03/02/2023			03/08/2023 22:54	Khloe J Berg	2391288