

Chemical Analysis Report

TLH-ROC-2022-10-12-02

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

Event Description: **Cherry Lake (Nutrients, Ecoli, Pesticides, PCR**
Request ID: **RQ-2022-10-10-61**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Chris Green

For additional information please contact
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 02-NOV-2022 15:47



NON-CONFORMANCE REPORT INCLUDED

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: Lake Talquin West End

Collection Date/Time: 10/12/2022 12:35

Field ID: G1TLHR0200

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2362142	DEP SOP: NU-094-1	Color (true)	40	A	PCU	P420877	
	EPA 180.1 Rev. 2.0	Turbidity	3.1		NTU	P420894	
	EPA 300.0 Rev. 2.1	Chloride	7.1		mg Cl/L	P421202	
		Sulfate	2.9		mg SO4/L	P421205	
	SM 2320 B-2011	Total Alkalinity	18		mg CaCO3/L	P421003	
	SM 2540 C-2015	TDS	49		mg/L	P421409	
	SM 2540 D-2015	TSS	5	I	mg/L	P421413	
	SM 4500-F- C-2011	Fluoride	0.10	I	mg F/L	P421005	MS
2362143	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	Y	mg N/L	P421166	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.85		mg N/L	P420961	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P420930	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P420865	
	SM 5310 B-2011	Organic Carbon	9.0		mg C/L	P420995	
2362147	EPA 8321B	Aldicarb	0.020	U	ug/L	P420952	
		Aldicarb Sulfone	0.0020	U	ug/L	P420952	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P420952	
		Carbaryl	0.0020	U	ug/L	P420952	
		Carbofuran	0.0020	U	ug/L	P420952	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P420952	
		Methiocarb	0.0020	U	ug/L	P420952	
		Methomyl	0.0020	U	ug/L	P420952	
		Oxamyl	0.0020	U	ug/L	P420952	
		Propoxur	0.0020	U	ug/L	P420952	
		2,4-D	0.0073	I	ug/L	P420977	
		Acesulfame K	0.10	U	ug/L	P420836	
		2,4,5-T	0.0040	U	ug/L	P420977	
2362148		AMPA	0.10	U	ug/L	P420836	
		Acetaminophen	0.0080	U	ug/L	P420977	
		Acetamiprid	0.0020	U	ug/L	P420977	
		Endothall	0.25	U	ug/L	P420836	
		Glufosinate	0.10	U	ug/L	P420836	
		Glyphosate	0.10	U	ug/L	P420836	
		Afidopyropen	0.0020	U	ug/L	P420977	
		Bentazon	0.0051		ug/L	P420977	
		Sucralose	0.40		ug/L	P420836	
		Benzovindiflupyr	0.0027	I	ug/L	P420977	
		Carbamazepine	8.0E-04	U	ug/L	P420977	
		Clothianidin	0.0020	U	ug/L	P420977	
		Dinotefuran	0.013	J	ug/L	P420977	MS
		Diuron	0.011		ug/L	P420977	
		Fenuron	0.032	U	ug/L	P420977	
		Fluridone	8.0E-04	U	ug/L	P420977	
		Imazapyr	0.026		ug/L	P420977	
		Hydrocodone	0.0020	U	ug/L	P420977	

Field ID: G1TLHR0200

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2362148	EPA 8321B	Ibuprofen	0.20	U	ug/L	P420977	
		Imidacloprid	0.0046	IJ	ug/L	P420977	MS
		Linuron	0.0040	U	ug/L	P420977	
		Mandestrobin	0.0020	U	ug/L	P420977	
		MCP	0.0040	U	ug/L	P420977	
		Naproxen	0.0080	U	ug/L	P420977	
		Primidone	0.0040	U	ug/L	P420977	
		Pyraclostrobin	0.0020	U	ug/L	P420977	
		Silvex	0.0040	U	ug/L	P420977	
		Thiamethoxam	0.0020	UJ	ug/L	P420977	MS
		Tolfenpyrad	0.0020	U	ug/L	P420977	
		Triclopyr	0.0040	U	ug/L	P420977	
2362149	EPA 8270E	Aldrin	0.68	U	ng/L	P420851	
		Alpha-BHC	0.10	U	ng/L	P420851	
		Alpha-Chlordane	0.21	U	ng/L	P420851	
		PCB-1016	2.1	U	ng/L	P420851	
		Beta-BHC	0.10	U	ng/L	P420851	
		PCB-1221	2.1	U	ng/L	P420851	
		Beta-Cyfluthrin	1.3	U	ng/L	P420851	
		PCB-1232	2.1	U	ng/L	P420851	
		Bifenthrin	0.52	U	ng/L	P420851	
		PCB-1242	2.1	U	ng/L	P420851	
		PCB-1248	2.1	U	ng/L	P420851	
		Chlorothalonil	3.9	I	ng/L	P420851	
		PCB-1254	2.1	U	ng/L	P420851	
		Cis-Nonachlor	0.21	U	ng/L	P420851	
		PCB-1260	2.1	U	ng/L	P420851	
		Cypermethrin	1.6	U	ng/L	P420851	
		Dacthal	0.16	U	ng/L	P420851	
		DDD-p,p'	0.26	U	ng/L	P420851	
		DDE-p,p'	0.21	U	ng/L	P420851	
		DDT-p,p'	0.26	U	ng/L	P420851	
		Delta-BHC	0.42	U	ng/L	P420851	
		Deltamethrin	1.3	U	ng/L	P420851	
		Dichlobenil	0.26	U	ng/L	P420851	
		Dicofol	1.3	UJ	ng/L	P420851	CCV
		Dieldrin	0.42	U	ng/L	P420851	
		Endosulfan I	0.42	U	ng/L	P420851	
		Endosulfan II	0.42	U	ng/L	P420851	
		Endosulfan Sulfate	0.31	U	ng/L	P420851	
		Endrin	0.42	U	ng/L	P420851	
		Endrin Aldehyde	0.78	U	ng/L	P420851	
		Endrin Ketone	0.42	U	ng/L	P420851	
		Esfenvalerate	0.78	U	ng/L	P420851	
		Ethalfuralin	0.16	U	ng/L	P420851	

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Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2362149	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P420851	
		Gamma-BHC	0.13	U	ng/L	P420851	
		Gamma-Chlordane	0.21	U	ng/L	P420851	
		Heptachlor	0.21	U	ng/L	P420851	
		Heptachlor Epoxide	0.26	U	ng/L	P420851	
		Hexachlorobenzene**	1.0	U	ng/L	P420851	
		Kepone	5.2	U	ng/L	P420851	
		Lambda-Cyhalothrin	0.78	U	ng/L	P420851	
		Methoprene	0.78	U	ng/L	P420851	
		Methoxychlor	0.31	U	ng/L	P420851	
		MGK-264	0.21	U	ng/L	P420851	
		Mirex	0.36	U	ng/L	P420851	
		Oxychlordane	0.31	U	ng/L	P420851	
		Permethrin	1.7	U	ng/L	P420851	
		Phenothrin	0.94	U	ng/L	P420851	
		Piperonyl Butoxide	0.16	U	ng/L	P420851	
		Prallethrin	2.1	U	ng/L	P420851	
		Tau-Fluvalinate	0.26	U	ng/L	P420851	
		Tetramethrin	0.78	U	ng/L	P420851	
		Trans-Nonachlor	0.21	U	ng/L	P420851	
		Triclosan Methyl	0.16	U	ng/L	P420851	
		Trifluralin	0.21	U	ng/L	P420851	
EPA 8276	Chlordane	2.6	U	ng/L	P420851		
	Toxaphene	16	U	ng/L	P420851		
2362150	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P420849	
		Acetochlor	0.80	I	ng/L	P420849	
		Octinoxate**	19	U	ng/L	P420849	
		Alachlor	0.24	U	ng/L	P420849	
		Avobenzone**	96	U	ng/L	P420849	
		Ametryn	0.57	U	ng/L	P420849	
		Atrazine	10		ng/L	P420849	
		PBDE-47**	3.8	U	ng/L	P420849	
		Atrazine Desethyl	2.1	I	ng/L	P420849	
		PBDE-99**	4.8	U	ng/L	P420849	
		Azinphos Methyl	1.9	U	ng/L	P420849	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P420849	
		Azoxystrobin	7.3		ng/L	P420849	
		Bromacil	1.1	I	ng/L	P420849	
		2-Ethylhexyl	11	U	ng/L	P420849	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P420849	
		Dechlorane Plus**	29	U	ng/L	P420849	
		Caffeine**	8.7	I	ng/L	P420849	
		Carbophenothion	0.19	U	ng/L	P420849	
		Carfentrazone Ethyl	0.096	U	ng/L	P420849	

Field ID: G1TLHR0200

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2362150	EPA 8270E	Chlorfenapyr	0.17	U	ng/L	P420849	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P420849	
		Chlorpyrifos Methyl	0.048	U	ng/L	P420849	
		Coumaphos	0.48	U	ng/L	P420849	
		Cyanazine	3.1	U	ng/L	P420849	
		Cyprodinil	0.096	U	ng/L	P420849	
		Demeton	1.4	U	ng/L	P420849	
		Diazinon	0.12	U	ng/L	P420849	
		Difenoconazole	0.57	U	ng/L	P420849	
		Dimethenamid	7.4		ng/L	P420849	
		Dimethomorph	0.42	I	ng/L	P420849	
		Disulfoton	0.48	U	ng/L	P420849	
		Dithiopyr	0.60	U	ng/L	P420849	
		EPTC	1.2	U	ng/L	P420849	
		Ethion	0.14	U	ng/L	P420849	
		Ethoprop	0.096	U	ng/L	P420849	
		Etridiazole	0.14	U	ng/L	P420849	
		Fenamiphos	0.48	U	ng/L	P420849	
		Fenbuconazole	0.12	U	ng/L	P420849	
		Fipronil	0.24	U	ng/L	P420849	
		Fipronil Desulfinyl**	0.12	U	ng/L	P420849	
		Fipronil Sulfide	0.14	U	ng/L	P420849	
		Fipronil Sulfone	0.16	I	ng/L	P420849	
		Fluazifop-P-butyl	0.096	U	ng/L	P420849	
		Fludioxonil	0.12	U	ng/L	P420849	
		Flumioxazin	4.3	U	ng/L	P420849	
		Flutolanil	9.8		ng/L	P420849	
		Fluxapyroxad	9.2		ng/L	P420849	
		Fonofos	0.19	U	ng/L	P420849	
		Hexazinone	1.2	I	ng/L	P420849	
		Imazalil	0.72	U	ng/L	P420849	
		Iprodione	0.57	U	ng/L	P420849	
		Loratadine**	0.33	U	ng/L	P420849	
		Malathion	0.33	U	ng/L	P420849	
		Metalaxyl	0.72	U	ng/L	P420849	
		Metolachlor	40		ng/L	P420849	
		Metribuzin	1.4	U	ng/L	P420849	
		Mevinphos	1.0	U	ng/L	P420849	
		Molinate	0.29	U	ng/L	P420849	
		Myclobutanil	1.1		ng/L	P420849	
		Naled	1.4	U	ng/L	P420849	
		Napropamide	0.38	U	ng/L	P420849	
		Norflurazon	0.53	I	ng/L	P420849	
		Oxadiazon	0.55	I	ng/L	P420849	
		Oxyfluorfen	0.14	U	ng/L	P420849	

Field ID: G1TLHR0200

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2362150	EPA 8270E	Parathion Ethyl	0.24	U	ng/L	P420849	
		Parathion Methyl	0.53	U	ng/L	P420849	
		Pendimethalin	0.96	U	ng/L	P420849	
		Phenytol**	3.3	U	ng/L	P420849	
		Phorate	0.50	U	ng/L	P420849	
		Prodiatone	0.17	U	ng/L	P420849	
		Prometon	0.86	U	ng/L	P420849	
		Prometryn	0.19	U	ng/L	P420849	
		Pronamide	0.14	U	ng/L	P420849	
		Propanil	0.12	U	ng/L	P420849	
		Propargite	1.4	U	ng/L	P420849	
		Propiconazole	8.5		ng/L	P420849	
		Pyraflufen Ethyl	0.24	U	ng/L	P420849	
		Pyridaben	0.43	U	ng/L	P420849	
		Pyriproxyfen	0.12	U	ng/L	P420849	
		Simazine	0.48	U	ng/L	P420849	
		Stirophos	0.12	U	ng/L	P420849	
		Sulfentrazone	0.48	U	ng/L	P420849	
		Tebuconazole	8.3		ng/L	P420849	
		Terbufos	0.096	U	ng/L	P420849	
		Terbutylazine	0.41	U	ng/L	P420849	
		Thiobencarb	0.57	U	ng/L	P420849	
		Triadimefon	0.24	U	ng/L	P420849	
2362199	EPA 200.7 Rev. 4.4	Calcium	6.16		mg/L	P420914	
		Iron	270		ug/L	P420914	
		Magnesium	2.64		mg/L	P420914	
		Potassium	1.7		mg/L	P420914	
		Sodium	4.5		mg/L	P420914	
		Strontium	27.0		ug/L	P420914	
		Tin	3.0	U	ug/L	P420914	
		Titanium	0.75	U	ug/L	P420914	
		Vanadium	2.0	U	ug/L	P420914	
		Zinc	5.0	U	ug/L	P420914	
	EPA 200.8 Rev. 5.4	Aluminum	25		ug/L	P420914	
		Antimony	0.050	U	ug/L	P420914	
		Arsenic	0.75		ug/L	P420914	
		Barium	12.7		ug/L	P420914	
		Beryllium	0.010	U	ug/L	P420914	
		Boron	17.5		ug/L	P420914	
		Cadmium	0.020	U	ug/L	P420914	
		Chromium	0.40	U	ug/L	P420914	
		Cobalt	0.040	I	ug/L	P420914	
		Copper	0.40	U	ug/L	P420914	
		Lead	0.20	U	ug/L	P420914	
		Manganese	19.2		ug/L	P420914	

Field ID: G1TLHR0200

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2362199	EPA 200.8 Rev. 5.4	Molybdenum	0.29	I	ug/L	P420914	
		Nickel	0.50	U	ug/L	P420914	
		Selenium	0.20	U	ug/L	P420914	
		Silver	0.010	U	ug/L	P420914	
		Thallium	0.10	U	ug/L	P420914	
	SM 2340 B-2011	Hardness	26.3		mg/L	P420914	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 350.1 Rev. 2.0: Sample stored outside of the acceptable temperature range. Please see NCR.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked.

Non-Conformance Report

NCR ID: 9589

Event(s)

TLH-ROC-2022-10-12-02

Job(s)

TLH-2022-10-12-123

Sample(s)

2362143

Test(s)

NCR Type: CUSTODY

NCR Category: General

Observation: Samples stored at room temperature overnight on 10/17/2022.

Resolution: Samples placed in refrigerator on 10/18/2022 at 9:20 AM. Data generated after this time will be qualified where appropriate.

Authorized by/Date: Patrick M. Roche 10/27/2022

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P420877

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420894

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P420914

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: P420914

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: P421202

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

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Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421205

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421166

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420961

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420930

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420865

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

Reference Method: EPA 8270E
Batch ID: P420849

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420849

Component	Result	Code	Units
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420849

Component	Result	Code	Units
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420849

Component	Result	Code	Units
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420851

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	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420851

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420851

Component	Result	Code	Units
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: P420851

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P420836

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: P420952

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: P420977

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

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Reference Method: EPA 8321B

Batch ID: P420977

Component	Result	Code	Units
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.20	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P421003

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

Reference Method: SM 2540 C-2015

Batch ID: P421409

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P421413

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P421005

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P420995

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: P420877

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.2		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420894

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P420914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	100		P	85 - 115
Iron	106		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	104		P	85 - 115
Sodium	100		P	85 - 115
Strontium	105		P	85 - 115
Tin	104		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P420914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.5		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	100		P	85 - 115
Barium	104		P	85 - 115
Beryllium	94.2		P	85 - 115
Boron	105		P	85 - 115
Cadmium	98.7		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	96.9		P	85 - 115
Copper	98.0		P	85 - 115
Lead	94.8		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	97.0		P	85 - 115
Nickel	97.8		P	85 - 115
Selenium	97.6		P	85 - 115
Silver	101		P	85 - 115
Thallium	90.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421202

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: P421205

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421166

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420961

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420930

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: P420865

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

Reference Method: EPA 8270E
Batch ID: P420849

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.2		P	26 - 165
Acetochlor	97.0		P	69 - 123
Alachlor	89.9		P	65 - 118
Ametryn	87.7		P	58 - 141
Atrazine	94.5		P	73 - 118
Atrazine Desethyl	64.0		P	32 - 125
Avobenzone	104		P	37 - 178
Azinphos Methyl	124		P	36 - 197
Azoxystrobin	109		P	58 - 226
Bromacil	75.1		P	48 - 120
Butylate	55.0		P	27 - 85.0
Caffeine	70.6		P	40 - 137
Carbophenothion	96.4		P	54 - 132
Carfentrazone Ethyl	118		P	60 - 142
Chlorfenapyr	104		P	53 - 117
Chlorpyrifos Ethyl	112		P	59 - 116
Chlorpyrifos Methyl	112		P	66 - 119
Coumaphos	100		P	11 - 234
Cyanazine	123		P	61 - 248
Cyprodinil	87.9		P	50 - 147
Dechlorane Plus	125		P	50 - 150
Demeton	88.8		P	30 - 138

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Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P420849

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diazinon	88.3		P	67 - 126
Difenoconazole	121		P	38 - 205
Dimethenamid	82.7		P	57 - 111
Dimethomorph	98.1		P	16 - 212
Disulfoton	82.0		P	46 - 126
Dithiopyr	80.3		P	62 - 115
EPTC	55.5		P	28 - 80.0
Ethion	79.1		P	24 - 122
Ethoprop	91.9		P	62 - 113
Etridiazole	56.7		P	28 - 92.0
Fenamiphos	106		P	57 - 128
Fenbuconazole	95.9		P	52 - 155
Fipronil	91.7		P	63 - 130
Fipronil Desulfinyl	98.7		P	61 - 130
Fipronil Sulfide	74.1		P	56 - 117
Fipronil Sulfone	74.2		P	52 - 118
Fluazifop-P-butyl	89.1		P	61 - 128
Fludioxonil	87.0		P	59 - 129
Flumioxazin	145		P	30 - 250
Flutolanil	88.7		P	53 - 127
Fluxapyroxad	86.6		P	42 - 132
Fonofos	93.4		P	61 - 110
Hexazinone	106		P	46 - 139
Imazalil	83.7		P	40 - 139
Iprodione	109		P	40 - 146
Loratadine	91.3		P	10 - 224
Malathion	118		P	61 - 135
Metalaxyl	85.2		P	58 - 121
Metolachlor	89.7		P	64 - 118
Metribuzin	94.0		P	45 - 245
Mevinphos	86.5		P	49 - 118
Molinate	62.1		P	42 - 92.0
Myclobutanil	93.9		P	55 - 127
Naled	105		P	10 - 114
Napropamide	83.1		P	39 - 121
Norflurazon	80.3		P	55 - 129
Octinoxate	78.1		P	21 - 159
Oxadiazon	78.7		P	54 - 115
Oxybenzone	67.0		P	41 - 142
Oxyfluorfen	105		P	64 - 139
Parathion Ethyl	98.4		P	70 - 111
Parathion Methyl	104		P	76 - 136
PBDE-47	79.8		P	27 - 144
PBDE-99	84.9		P	18 - 150
Pendimethalin	88.8		P	52 - 118
Phenytol	50.4		P	10 - 162
Phorate	86.4		P	40 - 122
Prodiamine	50.0		P	26 - 141
Prometon	76.2		P	54 - 122
Prometryn	85.5		P	61 - 128
Pronamide	94.3		P	72 - 121
Propanil	96.8		P	45 - 144

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P420849

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propargite	78.0		P	10 - 199
Propiconazole	89.8		P	56 - 127
Pyraflufen Ethyl	86.6		P	56 - 140
Pyridaben	110		P	26 - 211
Pyriproxyfen	92.5		P	33 - 194
Simazine	79.6		P	67 - 121
Stirophos	91.2		P	20 - 142
Sulfentrazone	91.4		P	21 - 144
Tebuconazole	59.4		P	10 - 122
Terbufos	110		P	60 - 129
Terbuthylazine	93.3		P	69 - 113
Thiobencarb	83.9		P	51 - 120
Tri-o-cresyl Phosphate	77.6		P	31 - 144
Triadimefon	89.0		P	56 - 114

Reference Method: EPA 8270E

Batch ID: P420851

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	53.1		P	10 - 92.0
Alpha-BHC	98.9		P	75 - 107
Alpha-Chlordane	92.6		P	50 - 108
Beta-BHC	120		P	36 - 138
Beta-Cyfluthrin	80.7		P	20 - 161
Bifenthrin	59.3		P	10 - 119
Chlorothalonil	141		P	26 - 186
Cis-Nonachlor	83.3		P	42 - 119
Cypermethrin	81.2		P	22 - 150
Dacthal	96.8		P	72 - 119
DDD-p,p'	85.7		P	45 - 107
DDE-p,p'	87.2		P	48 - 106
DDT-p,p'	70.1		P	48 - 110
Delta-BHC	120		P	54 - 140
Deltamethrin	105		P	22 - 189
Dichlobenil	50.7		P	36 - 117
Dicofol	69.6		P	46 - 155
Dieldrin	94.2		P	54 - 110
Endosulfan I	86.6		P	59 - 105
Endosulfan II	96.5		P	51 - 118
Endosulfan Sulfate	100		P	57 - 121
Endrin	90.8		P	10 - 120
Endrin Aldehyde	106		P	34 - 118
Endrin Ketone	90.9		P	69 - 177
Esfenvalerate	85.2		P	23 - 168
Ethalfuralin	77.3		P	49 - 99.0
Fenpropathrin	82.7		P	34 - 117
Gamma-BHC	93.9		P	72 - 117
Gamma-Chlordane	89.2		P	43 - 106
Heptachlor	74.1		P	41 - 98.0
Heptachlor Epoxide	94.8		P	57 - 106
Hexachlorobenzene	71.7		P	36 - 99.0
Kepone	100		P	16 - 215

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P420851

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lambda-Cyhalothrin	36.1		P	21 - 177
Methoprene	69.4		P	10 - 119
Methoxychlor	96.6		P	60 - 112
MGK-264	94.3		P	26 - 122
Mirex	61.8		P	10 - 169
Oxychlordane	78.1		P	43 - 105
PCB-1016	86.6		P	48 - 112
PCB-1260	101		P	44 - 118
Permethrin	86.9		P	24 - 148
Phenothrin	58.1		P	10 - 106
Piperonyl Butoxide	77.8		P	10 - 139
Prallethrin	87.1		P	17 - 109
Tau-Fluvalinate	70.0		P	13 - 131
Tetramethrin	117		P	10 - 132
Trans-Nonachlor	87.6		P	44 - 106
Triclosan Methyl	92.4		P	59 - 109
Trifluralin	78.1		P	44 - 101

Reference Method: EPA 8276

Batch ID: P420851

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	68.6		P	61 - 116
Toxaphene	62.0		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P420836

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	105		P	40 - 150
AMPA	96.7		P	40 - 150
Endothall	101		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	106		P	40 - 150
Sucralose	89.1		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P420952

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	96.7		P	40 - 150
Aldicarb	82.0		P	30 - 150
Aldicarb Sulfone	98.7		P	40 - 150
Aldicarb Sulfoxide	90.1		P	40 - 150
Carbaryl	81.9		P	40 - 150
Carbofuran	77.1		P	40 - 150
Methiocarb	91.0		P	40 - 150
Methomyl	89.9		P	40 - 150
Oxamyl	90.6		P	40 - 150
Propoxur	76.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P420977

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	81.1		P	40 - 150
2,4,5-T	60.1		P	40 - 150
Acetaminophen	107		P	30 - 150
Acetamiprid	88.8		P	40 - 150
Afidopyropen	66.1		P	30 - 150
Bentazon	118		P	30 - 150
Benzovindiflupyr	100		P	40 - 150
Carbamazepine	98.2		P	40 - 150
Clothianidin	103		P	40 - 150
Dinotefuran	115		P	40 - 150
Diuron	90.7		P	40 - 150
Fenuron	111		P	40 - 150
Fluridone	122		P	40 - 150
Hydrocodone	111		P	40 - 150
Ibuprofen	86.6		P	40 - 150
Imazapyr	148		P	40 - 150
Imidacloprid	116		P	40 - 150
Linuron	88.4		P	40 - 150
Mandestrobin	113		P	40 - 150
MCPP	82.4		P	40 - 150
Naproxen	119		P	40 - 150
Primidone	106		P	40 - 150
Pyraclostrobin	95.7		P	40 - 150
Silvex	71.4		P	40 - 150
Thiamethoxam	108		P	40 - 150
Tolfenpyrad	49.3		P	30 - 150
Triclopyr	65.6		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P421003

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.2		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P421409

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	98.0		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P421413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	101		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P421005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P420995

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P420914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362199	Calcium	100		P	80 - 120
2362199	Iron	105	112	P/P	80 - 120
2362199	Magnesium	103	114	P/P	80 - 120
2362199	Potassium	104	109	P/P	80 - 120
2362199	Sodium	102		P	80 - 120
2362199	Strontium	105	108	P/P	80 - 120
2362199	Tin	104	103	P/P	80 - 120
2362199	Titanium	105	106	P/P	80 - 120
2362199	Vanadium	104	105	P/P	80 - 120
2362199	Zinc	102	104	P/P	80 - 120
2362445	Calcium	100		P	80 - 120
2362445	Iron	102		P	80 - 120
2362445	Magnesium	97.4		P	80 - 120
2362445	Potassium	102		P	80 - 120
2362445	Sodium	102		P	80 - 120
2362445	Strontium	99.6		P	80 - 120
2362445	Tin	101		P	80 - 120
2362445	Titanium	105		P	80 - 120
2362445	Vanadium	106		P	80 - 120
2362445	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P420914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362199	Aluminum	97.3	101	P/P	80 - 120
2362199	Antimony	103	104	P/P	80 - 120
2362199	Arsenic	100	102	P/P	80 - 120
2362199	Barium	103	105	P/P	80 - 120
2362199	Beryllium	93.1	95.9	P/P	80 - 120
2362199	Boron	101	103	P/P	80 - 120
2362199	Cadmium	98.9	98.7	P/P	80 - 120
2362199	Chromium	100	103	P/P	80 - 120
2362199	Cobalt	96.2	98.0	P/P	80 - 120
2362199	Copper	98.2	99.9	P/P	80 - 120
2362199	Lead	94.1	96.2	P/P	80 - 120
2362199	Manganese	99.1	101	P/P	80 - 120
2362199	Molybdenum	96.8	98.5	P/P	80 - 120
2362199	Nickel	98.2	99.5	P/P	80 - 120
2362199	Selenium	97.5	98.5	P/P	80 - 120
2362199	Silver	99.2	101	P/P	80 - 120
2362199	Thallium	92.5	96.7	P/P	80 - 120
2362445	Aluminum	98.2		P	80 - 120
2362445	Antimony	107		P	80 - 120
2362445	Arsenic	103		P	80 - 120
2362445	Barium	106		P	80 - 120
2362445	Beryllium	93.1		P	80 - 120
2362445	Boron	101		P	80 - 120
2362445	Cadmium	101		P	80 - 120
2362445	Chromium	102		P	80 - 120
2362445	Cobalt	97.9		P	80 - 120
2362445	Copper	97.2		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P420914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362445	Lead	95.0		P	80 - 120
2362445	Manganese	102		P	80 - 120
2362445	Molybdenum	99.8		P	80 - 120
2362445	Nickel	98.5		P	80 - 120
2362445	Selenium	101		P	80 - 120
2362445	Silver	101		P	80 - 120
2362445	Thallium	93.3		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421202

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362107	Chloride	97.2		P	90 - 110
2362234	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362107	Sulfate	98.4		P	90 - 110
2362234	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421166

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362143	Ammonia-N	99.4	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362143	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420865

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362078	Total-P	107	107	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P420849

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362136	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.4	87.0	P/P	26 - 165
2362136	Acetochlor	94.6	98.1	P/P	67 - 124
2362136	Alachlor	80.6	90.3	P/P	60 - 120
2362136	Ametryn	90.9	97.6	P/P	54 - 216
2362136	Atrazine Desethyl	59.8	54.8	P/P	15 - 122
2362136	Avobenzone	105	107	P/P	37 - 178
2362136	Azinphos Methyl	121	120	P/P	40 - 292
2362136	Azoxystrobin	116	103	P/P	35 - 220

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420849

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362136	Bromacil	75.9	77.3	P/P	45 - 127
2362136	Butylate	49.9	48.9	P/P	20 - 83.0
2362136	Caffeine	81.5	83.4	P/P	10 - 194
2362136	Carbophenothion	86.5	82.2	P/P	57 - 127
2362136	Carfentrazone Ethyl	93.9	96.3	P/P	51 - 141
2362136	Chlorfenapyr	76.9	88.0	P/P	46 - 111
2362136	Chlorpyrifos Ethyl	87.9	105	P/P	52 - 120
2362136	Chlorpyrifos Methyl	92.9	104	P/P	63 - 119
2362136	Coumaphos	76.5	96.8	P/P	10 - 228
2362136	Cyanazine	87.2	96.3	P/P	59 - 241
2362136	Cyprodinil	80.7	90.2	P/P	47 - 146
2362136	Dechlorane Plus	115	91.6	P/P	50 - 150
2362136	Demeton	90.6	84.0	P/P	40 - 136
2362136	Diazinon	89.6	92.5	P/P	69 - 132
2362136	Difenoconazole	131	130	P/P	57 - 258
2362136	Dimethenamid	81.0	86.2	P/P	54 - 110
2362136	Dimethomorph	117	97.8	P/P	28 - 210
2362136	Disulfoton	88.4	95.9	P/P	43 - 133
2362136	Dithiopyr	75.1	81.1	P/P	39 - 116
2362136	EPTC	53.6	51.1	P/P	20 - 78.0
2362136	Ethion	57.8	79.1	P/P	17 - 119
2362136	Ethoprop	94.7	90.3	P/P	66 - 120
2362136	Etridiazole	64.8	55.4	P/P	28 - 96.0
2362136	Fenamiphos	84.1	92.1	P/P	41 - 126
2362136	Fenbuconazole	89.0	91.7	P/P	42 - 169
2362136	Fipronil	84.4	92.2	P/P	61 - 132
2362136	Fipronil Desulfanyl	90.3	96.5	P/P	56 - 132
2362136	Fipronil Sulfide	70.6	75.3	P/P	48 - 119
2362136	Fipronil Sulfone	56.9	71.1	P/P	42 - 131
2362136	Fluazifop-P-butyl	78.4	92.9	P/P	53 - 131
2362136	Fludioxonil	75.9	78.2	P/P	56 - 127
2362136	Flumioxazin	139	143	P/P	19 - 300
2362136	Flutolanil	80.2	83.2	P/P	41 - 127
2362136	Fluxapyroxad	71.7	74.6	P/P	42 - 172
2362136	Fonofos	80.9	94.7	P/P	59 - 113
2362136	Hexazinone	108	108	P/P	66 - 122
2362136	Imazalil	78.3	82.0	P/P	21 - 283
2362136	Iprodione	90.9	88.8	P/P	43 - 150
2362136	Loratadine	105	93.8	P/P	23 - 201
2362136	Malathion	106	122	P/P	58 - 136
2362136	Metalaxyl	77.0	81.4	P/P	55 - 120
2362136	Metolachlor	80.6	87.4	P/P	57 - 121
2362136	Metribuzin	106	97.0	P/P	58 - 294
2362136	Mevinphos	88.6	87.0	P/P	50 - 126
2362136	Molinate	67.7	63.5	P/P	42 - 93.0
2362136	Myclobutanil	84.7	87.0	P/P	55 - 125
2362136	Naled	102	106	P/P	18 - 200
2362136	Napropamide	69.4	71.3	P/P	39 - 110
2362136	Norflurazon	74.8	75.0	P/P	48 - 128
2362136	Octinoxate	79.6	77.1	P/P	21 - 159
2362136	Oxadiazon	69.6	74.9	P/P	43 - 112
2362136	Oxybenzone	71.8	70.0	P/P	41 - 142

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420849

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362136	Oxyfluorfen	87.4	102	P/P	64 - 153
2362136	Parathion Ethyl	96.4	93.7	P/P	69 - 114
2362136	Parathion Methyl	112	103	P/P	79 - 139
2362136	PBDE-47	73.9	73.3	P/P	27 - 144
2362136	PBDE-99	84.6	68.5	P/P	18 - 150
2362136	Pendimethalin	88.0	90.9	P/P	50 - 139
2362136	Phenytoin	43.4	60.7	P/P	10 - 146
2362136	Phorate	78.8	83.6	P/P	54 - 161
2362136	Prodiamine	34.0	34.4	P/P	30 - 161
2362136	Prometon	92.9	82.3	P/P	45 - 134
2362136	Prometryn	75.5	80.3	P/P	45 - 137
2362136	Pronamide	98.7	86.8	P/P	65 - 133
2362136	Propanil	93.0	98.0	P/P	49 - 142
2362136	Propargite	70.0	91.2	P/P	10 - 203
2362136	Propiconazole	83.0	79.8	P/P	38 - 146
2362136	Pyraflufen Ethyl	82.5	79.2	P/P	34 - 153
2362136	Pyridaben	72.6	86.0	P/P	12 - 192
2362136	Pyriproxyfen	84.5	89.8	P/P	33 - 180
2362136	Simazine	79.2	79.9	P/P	51 - 157
2362136	Stiropfos	63.7	86.7	P/P	10 - 128
2362136	Sulfentrazone	86.5	86.9	P/P	53 - 186
2362136	Tebuconazole	54.0	73.2	P/P	10 - 133
2362136	Terbufos	102	110	P/P	65 - 139
2362136	Terbutylazine	93.8	93.8	P/P	66 - 117
2362136	Thiobencarb	79.3	79.8	P/P	51 - 119
2362136	Tri-o-cresyl Phosphate	72.9	71.5	P/P	31 - 144
2362136	Triadimefon	75.6	88.1	P/P	48 - 119

Reference Method: EPA 8270E

Batch ID: P420851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362135	PCB-1016	70.8	67.9	P/P	46 - 111
2362135	PCB-1260	70.0	65.4	P/P	45 - 114
2362360	Aldrin	47.6	54.7	P/P	20 - 82.0
2362360	Alpha-BHC	84.5	79.4	P/P	71 - 109
2362360	Alpha-Chlordane	63.6	69.4	P/P	42 - 106
2362360	Beta-BHC	105	95.4	P/P	69 - 180
2362360	Beta-Cyfluthrin	63.4	70.6	P/P	18 - 175
2362360	Bifenthrin	50.2	60.7	P/P	21 - 128
2362360	Chlorothalonil	55.0	47.8	P/P	10 - 300
2362360	Cis-Nonachlor	55.0	63.2	P/P	34 - 106
2362360	Cypermethrin	67.2	74.5	P/P	22 - 158
2362360	Dacthal	83.6	83.6	P/P	54 - 116
2362360	DDD-p,p'	49.4	63.3	P/P	34 - 107
2362360	DDE-p,p'	63.6	70.3	P/P	33 - 110
2362360	DDT-p,p'	59.7	68.0	P/P	50 - 122
2362360	Delta-BHC	131	106	P/P	77 - 193
2362360	Deltamethrin	83.2	90.8	P/P	10 - 195
2362360	Dichlobenil	58.1	60.9	P/P	25 - 113
2362360	Dicofol	66.5	76.0	P/P	38 - 247
2362360	Dieldrin	67.7	76.6	P/P	45 - 118

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362360	Endosulfan I	71.8	77.9	P/P	51 - 106
2362360	Endosulfan II	80.6	77.0	P/P	37 - 122
2362360	Endosulfan Sulfate	66.3	72.3	P/P	43 - 132
2362360	Endrin	70.7	77.5	P/P	29 - 101
2362360	Endrin Aldehyde	54.2	59.8	P/P	19 - 110
2362360	Endrin Ketone	74.0	79.9	P/P	60 - 140
2362360	Esfenvalerate	66.1	72.6	P/P	26 - 199
2362360	Ethalfuralin	68.3	78.3	P/P	45 - 99.0
2362360	Fenpropathrin	60.1	69.2	P/P	35 - 120
2362360	Gamma-BHC	107	93.6	P/P	63 - 128
2362360	Gamma-Chlordane	62.9	67.7	P/P	40 - 104
2362360	Heptachlor	53.4	57.5	P/P	36 - 97.0
2362360	Heptachlor Epoxide	70.8	74.2	P/P	49 - 184
2362360	Hexachlorobenzene	60.4	60.6	P/P	39 - 96.0
2362360	Kepone	43.8	47.8	P/P	10 - 217
2362360	Lambda-Cyhalothrin	60.0	66.9	P/P	21 - 193
2362360	Methoprene	48.7	59.0	P/P	20 - 106
2362360	Methoxychlor	72.2	78.6	P/P	53 - 118
2362360	MGK-264	75.3	76.0	P/P	40 - 118
2362360	Mirex	52.1	62.2	P/P	26 - 92.0
2362360	Oxychlordane	66.7	70.3	P/P	44 - 99.0
2362360	Permethrin	67.9	73.8	P/P	33 - 182
2362360	Phenothrin	50.1	61.4	P/P	10 - 129
2362360	Piperonyl Butoxide	98.2	94.4	P/P	10 - 211
2362360	Prallethrin	61.3	66.8	P/P	24 - 113
2362360	Tau-Fluvalinate	57.1	65.2	P/P	14 - 149
2362360	Tetramethrin	88.4	97.2	P/P	17 - 151
2362360	Trans-Nonachlor	61.6	67.0	P/P	42 - 102
2362360	Triclosan Methyl	68.1	74.3	P/P	48 - 108
2362360	Trifluralin	68.1	72.7	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P420851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362135	Chlordane	60.9	56.9	P/P	53 - 126
2362135	Toxaphene	65.6	57.7	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P420836

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362148	Acesulfame K	133	133	P/P	40 - 150
2362148	AMPA	96.4	104	P/P	40 - 150
2362148	Endothall	118	114	P/P	40 - 150
2362148	Glufosinate	96.1	99.9	P/P	40 - 150
2362148	Glyphosate	100	99.4	P/P	40 - 150
2362148	Sucralose	87.8	87.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P420952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361846	3-Hydroxycarbofuran	101	116	P/P	40 - 150
2361846	Aldicarb	81.7	93.5	P/P	30 - 150
2361846	Aldicarb Sulfone	114	117	P/P	40 - 150
2361846	Aldicarb Sulfoxide	56.6	59.8	P/P	40 - 150
2361846	Carbaryl	76.7	80.9	P/P	40 - 150
2361846	Carbofuran	73.8	77.9	P/P	40 - 150
2361846	Methiocarb	86.6	86.0	P/P	40 - 150
2361846	Methomyl	97.2	105	P/P	40 - 150
2361846	Oxamyl	96.7	102	P/P	40 - 150
2361846	Propoxur	73.7	73.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P420977

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362148	2,4-D	94.6	103	P/P	40 - 150
2362148	2,4,5-T	60.6	59.5	P/P	40 - 150
2362148	Acetaminophen	112	119	P/P	30 - 150
2362148	Acetamiprid	73.0	79.6	P/P	40 - 150
2362148	Afidopyropen	71.6	80.4	P/P	30 - 150
2362148	Bentazon	61.7	71.9	P/P	30 - 150
2362148	Benzovindiflupyr	85.8	94.8	P/P	40 - 150
2362148	Carbamazepine	73.6	82.7	P/P	40 - 150
2362148	Clothianidin	125	140	P/P	40 - 150
2362148	Dinotefuran	139	155	P/F	40 - 150
2362148	Diuron	66.9	65.6	P/P	40 - 150
2362148	Fenuron	94.6	104	P/P	40 - 150
2362148	Fluridone	99.1	111	P/P	40 - 150
2362148	Hydrocodone	119	130	P/P	40 - 150
2362148	Ibuprofen	80.7	88.3	P/P	40 - 150
2362148	Imazapyr	132	136	P/P	40 - 150
2362148	Imidacloprid	145	164	P/F	40 - 150
2362148	Linuron	72.0	79.8	P/P	40 - 150
2362148	Mandestrobin	92.9	104	P/P	40 - 150
2362148	MCP	78.8	85.2	P/P	40 - 150
2362148	Naproxen	92.9	122	P/P	40 - 150
2362148	Primidone	108	113	P/P	40 - 150
2362148	Pyraclostrobin	87.3	94.7	P/P	40 - 150
2362148	Silvex	71.7	77.8	P/P	40 - 150
2362148	Thiamethoxam	170	184	F/F	40 - 150
2362148	Tolfenpyrad	49.6	57.9	P/P	30 - 150
2362148	Triclopyr	60.5	61.9	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P421005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362193	Fluoride	107	108	F/F	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P420995

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362154	Organic Carbon	96.7	96.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P420877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362142	Color (true)	4.52	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362121	Turbidity	3.86	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P420914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362199	Calcium	3.30	Spike	P	0 - 20
2362199	Iron	6.04	Spike	P	0 - 20
2362199	Magnesium	6.13	Spike	P	0 - 20
2362199	Potassium	3.12	Spike	P	0 - 20
2362199	Sodium	4.14	Spike	P	0 - 20
2362199	Strontium	3.24	Spike	P	0 - 20
2362199	Tin	0.217	Spike	P	0 - 20
2362199	Titanium	1.24	Spike	P	0 - 20
2362199	Vanadium	1.19	Spike	P	0 - 20
2362199	Zinc	1.61	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P420914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362199	Aluminum	3.29	Spike	P	0 - 20
2362199	Antimony	0.836	Spike	P	0 - 20
2362199	Arsenic	1.89	Spike	P	0 - 20
2362199	Barium	1.16	Spike	P	0 - 20
2362199	Beryllium	2.99	Spike	P	0 - 20
2362199	Boron	1.87	Spike	P	0 - 20
2362199	Cadmium	0.212	Spike	P	0 - 20
2362199	Chromium	2.07	Spike	P	0 - 20
2362199	Cobalt	1.88	Spike	P	0 - 20
2362199	Copper	1.70	Spike	P	0 - 20
2362199	Lead	2.19	Spike	P	0 - 20
2362199	Manganese	1.58	Spike	P	0 - 20
2362199	Molybdenum	1.69	Spike	P	0 - 20
2362199	Nickel	1.29	Spike	P	0 - 20
2362199	Selenium	1.05	Spike	P	0 - 20
2362199	Silver	1.53	Spike	P	0 - 20
2362199	Thallium	4.42	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362107	Chloride	3.15	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362107	Sulfate	1.53	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421166

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362143	Ammonia-N	0.365	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361989	Kjeldahl Nitrogen	2.81	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362143	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P420865

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362078	Total-P	0.193	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P420849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362136	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	8.20	Spike	P	0 - 37
2362136	Acetochlor	3.59	Spike	P	0 - 28
2362136	Alachlor	11.4	Spike	P	0 - 30
2362136	Ametryn	7.08	Spike	P	0 - 32
2362136	Atrazine	1.21	Spike	P	0 - 41
2362136	Atrazine Desethyl	5.33	Spike	P	0 - 36
2362136	Avobenzene	1.73	Spike	P	0 - 36
2362136	Azinphos Methyl	0.710	Spike	P	0 - 75
2362136	Azoxystrobin	9.80	Spike	P	0 - 39

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P420849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362136	Bromacil	1.80	Spike	P	0 - 33
2362136	Butylate	2.04	Spike	P	0 - 44
2362136	Caffeine	2.41	Spike	P	0 - 74
2362136	Carbophenothion	5.09	Spike	P	0 - 25
2362136	Carfentrazone Ethyl	2.50	Spike	P	0 - 27
2362136	Chlorfenapyr	13.4	Spike	P	0 - 24
2362136	Chlorpyrifos Ethyl	17.6	Spike	P	0 - 26
2362136	Chlorpyrifos Methyl	10.8	Spike	P	0 - 26
2362136	Coumaphos	23.4	Spike	P	0 - 28
2362136	Cyanazine	9.92	Spike	P	0 - 48
2362136	Cyprodinil	11.2	Spike	P	0 - 29
2362136	Dechlorane Plus	22.4	Spike	P	0 - 30
2362136	Demeton	7.66	Spike	P	0 - 33
2362136	Diazinon	3.24	Spike	P	0 - 29
2362136	Difenoconazole	1.12	Spike	P	0 - 34
2362136	Dimethenamid	6.23	Spike	P	0 - 39
2362136	Dimethomorph	18.2	Spike	P	0 - 51
2362136	Disulfoton	8.11	Spike	P	0 - 30
2362136	Dithiopyr	7.61	Spike	P	0 - 26
2362136	EPTC	4.61	Spike	P	0 - 43
2362136	Ethion	31.1	Spike	P	0 - 79
2362136	Ethoprop	4.72	Spike	P	0 - 29
2362136	Etridiazole	15.7	Spike	P	0 - 33
2362136	Fenamiphos	9.02	Spike	P	0 - 40
2362136	Fenbuconazole	3.04	Spike	P	0 - 74
2362136	Fipronil	8.82	Spike	P	0 - 29
2362136	Fipronil Desulfinyl	6.57	Spike	P	0 - 32
2362136	Fipronil Sulfide	6.44	Spike	P	0 - 30
2362136	Fipronil Sulfone	22.1	Spike	P	0 - 33
2362136	Fluazifop-P-butyl	16.9	Spike	P	0 - 38
2362136	Fludioxonil	3.03	Spike	P	0 - 29
2362136	Flumioxazin	3.38	Spike	P	0 - 51
2362136	Flutolanil	3.20	Spike	P	0 - 25
2362136	Fluxapyroxad	3.69	Spike	P	0 - 45
2362136	Fonofos	15.7	Spike	P	0 - 27
2362136	Hexazinone	0.0767	Spike	P	0 - 30
2362136	Imazalil	4.69	Spike	P	0 - 100
2362136	Iprodione	2.26	Spike	P	0 - 33
2362136	Loratadine	11.2	Spike	P	0 - 56
2362136	Malathion	14.3	Spike	P	0 - 37
2362136	Metalaxyl	5.66	Spike	P	0 - 40
2362136	Metolachlor	6.76	Spike	P	0 - 29
2362136	Metribuzin	8.81	Spike	P	0 - 45
2362136	Mevinphos	1.80	Spike	P	0 - 29
2362136	Molinate	6.40	Spike	P	0 - 33
2362136	Myclobutanil	2.68	Spike	P	0 - 26
2362136	Naled	3.80	Spike	P	0 - 37
2362136	Napropamide	2.77	Spike	P	0 - 44
2362136	Norflurazon	0.150	Spike	P	0 - 30
2362136	Octinoxate	3.16	Spike	P	0 - 45
2362136	Oxadiazon	7.34	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P420849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362136	Oxybenzone	2.55	Spike	P	0 - 46
2362136	Oxyfluorfen	15.3	Spike	P	0 - 28
2362136	Parathion Ethyl	2.77	Spike	P	0 - 31
2362136	Parathion Methyl	7.89	Spike	P	0 - 29
2362136	PBDE-47	0.884	Spike	P	0 - 36
2362136	PBDE-99	21.1	Spike	P	0 - 40
2362136	Pendimethalin	3.19	Spike	P	0 - 33
2362136	Phenytoin	33.2	Spike	P	0 - 100
2362136	Phorate	5.89	Spike	P	0 - 36
2362136	Prodiamine	0.994	Spike	P	0 - 71
2362136	Prometon	12.1	Spike	P	0 - 36
2362136	Prometryn	6.11	Spike	P	0 - 28
2362136	Pronamide	12.9	Spike	P	0 - 24
2362136	Propanil	5.28	Spike	P	0 - 28
2362136	Propargite	26.3	Spike	P	0 - 43
2362136	Propiconazole	3.26	Spike	P	0 - 33
2362136	Pyraflufen Ethyl	4.07	Spike	P	0 - 29
2362136	Pyridaben	12.4	Spike	P	0 - 30
2362136	Pyriproxyfen	6.07	Spike	P	0 - 79
2362136	Simazine	0.876	Spike	P	0 - 29
2362136	Stiropfos	30.5	Spike	P	0 - 61
2362136	Sulfentrazone	0.467	Spike	P	0 - 33
2362136	Tebuconazole	22.2	Spike	P	0 - 69
2362136	Terbufos	7.96	Spike	P	0 - 29
2362136	Terbuthylazine	0.0426	Spike	P	0 - 32
2362136	Thiobencarb	0.640	Spike	P	0 - 26
2362136	Tri-o-cresyl Phosphate	2.02	Spike	P	0 - 33
2362136	Triadimefon	15.3	Spike	P	0 - 28

Reference Method: EPA 8270E

Batch ID: P420851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362135	PCB-1016	4.26	Spike	P	0 - 32
2362135	PCB-1260	6.70	Spike	P	0 - 31
2362360	Aldrin	13.8	Spike	P	0 - 41
2362360	Alpha-BHC	6.29	Spike	P	0 - 25
2362360	Alpha-Chlordane	8.71	Spike	P	0 - 33
2362360	Beta-BHC	10.0	Spike	P	0 - 36
2362360	Beta-Cyfluthrin	10.8	Spike	P	0 - 42
2362360	Bifenthrin	18.9	Spike	P	0 - 53
2362360	Chlorothalonil	14.0	Spike	P	0 - 71
2362360	Cis-Nonachlor	13.9	Spike	P	0 - 29
2362360	Cypermethrin	10.4	Spike	P	0 - 40
2362360	Dacthal	0.0299	Spike	P	0 - 26
2362360	DDD-p,p'	24.8	Spike	P	0 - 39
2362360	DDE-p,p'	9.96	Spike	P	0 - 33
2362360	DDT-p,p'	13.0	Spike	P	0 - 40
2362360	Delta-BHC	21.3	Spike	P	0 - 37
2362360	Deltamethrin	8.72	Spike	P	0 - 100

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P420851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362360	Dichlobenil	4.70	Spike	P	0 - 40
2362360	Dicofol	13.4	Spike	P	0 - 31
2362360	Dieldrin	12.3	Spike	P	0 - 27
2362360	Endosulfan I	8.15	Spike	P	0 - 23
2362360	Endosulfan II	4.55	Spike	P	0 - 28
2362360	Endosulfan Sulfate	8.65	Spike	P	0 - 38
2362360	Endrin	9.17	Spike	P	0 - 63
2362360	Endrin Aldehyde	9.78	Spike	P	0 - 60
2362360	Endrin Ketone	7.79	Spike	P	0 - 37
2362360	Esfenvalerate	9.43	Spike	P	0 - 52
2362360	Ethalfuralin	13.6	Spike	P	0 - 23
2362360	Fenpropathrin	14.1	Spike	P	0 - 32
2362360	Gamma-BHC	13.6	Spike	P	0 - 17
2362360	Gamma-Chlordane	7.37	Spike	P	0 - 40
2362360	Heptachlor	7.45	Spike	P	0 - 29
2362360	Heptachlor Epoxide	4.67	Spike	P	0 - 25
2362360	Hexachlorobenzene	0.362	Spike	P	0 - 36
2362360	Kepone	8.74	Spike	P	0 - 93
2362360	Lambda-Cyhalothrin	10.8	Spike	P	0 - 55
2362360	Methoprene	19.2	Spike	P	0 - 53
2362360	Methoxychlor	8.58	Spike	P	0 - 29
2362360	MGK-264	0.888	Spike	P	0 - 35
2362360	Mirex	17.8	Spike	P	0 - 46
2362360	Oxychlordane	5.32	Spike	P	0 - 29
2362360	Permethrin	8.34	Spike	P	0 - 44
2362360	Phenothrin	20.3	Spike	P	0 - 56
2362360	Piperonyl Butoxide	3.96	Spike	P	0 - 100
2362360	Prallethrin	8.60	Spike	P	0 - 42
2362360	Tau-Fluvalinate	13.2	Spike	P	0 - 54
2362360	Tetramethrin	9.48	Spike	P	0 - 51
2362360	Trans-Nonachlor	8.40	Spike	P	0 - 37
2362360	Triclosan Methyl	8.68	Spike	P	0 - 31
2362360	Trifluralin	6.51	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P420851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362135	Chlordane	6.74	Spike	P	0 - 25
2362135	Toxaphene	12.8	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P420836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362148	Acesulfame K	0.0987	Spike	P	0 - 30
2362148	AMPA	7.13	Spike	P	0 - 30
2362148	Endothall	3.81	Spike	P	0 - 30
2362148	Glufosinate	3.89	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P420836

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362148	Glyphosate	0.570	Spike	P	0 - 30
2362148	Sucralose	0.738	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P420952

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361846	3-Hydroxycarbofuran	14.2	Spike	P	0 - 30
2361846	Aldicarb	13.4	Spike	P	0 - 30
2361846	Aldicarb Sulfone	2.27	Spike	P	0 - 30
2361846	Aldicarb Sulfoxide	5.44	Spike	P	0 - 30
2361846	Carbaryl	5.41	Spike	P	0 - 30
2361846	Carbofuran	5.40	Spike	P	0 - 30
2361846	Methiocarb	0.679	Spike	P	0 - 30
2361846	Methomyl	7.32	Spike	P	0 - 30
2361846	Oxamyl	5.49	Spike	P	0 - 30
2361846	Propoxur	0.504	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P420977

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362148	2,4-D	7.49	Spike	P	0 - 30
2362148	2,4,5-T	1.88	Spike	P	0 - 30
2362148	Acetaminophen	6.04	Spike	P	0 - 30
2362148	Acetamiprid	8.60	Spike	P	0 - 30
2362148	Afidopyropen	11.6	Spike	P	0 - 30
2362148	Bentazon	7.83	Spike	P	0 - 30
2362148	Benzovindiflupyr	9.60	Spike	P	0 - 30
2362148	Carbamazepine	11.6	Spike	P	0 - 30
2362148	Clothianidin	11.9	Spike	P	0 - 30
2362148	Dinotefuran	9.53	Spike	P	0 - 30
2362148	Diuron	1.52	Spike	P	0 - 30
2362148	Fenuron	9.69	Spike	P	0 - 30
2362148	Fluridone	10.9	Spike	P	0 - 30
2362148	Hydrocodone	8.94	Spike	P	0 - 30
2362148	Ibuprofen	8.98	Spike	P	0 - 30
2362148	Imazapyr	2.53	Spike	P	0 - 30
2362148	Imidacloprid	11.8	Spike	P	0 - 30
2362148	Linuron	10.3	Spike	P	0 - 30
2362148	Mandestrobin	10.8	Spike	P	0 - 30
2362148	MCPP	7.86	Spike	P	0 - 30
2362148	Naproxen	27.1	Spike	P	0 - 30
2362148	Primidone	4.65	Spike	P	0 - 30
2362148	Pyraclostrobin	8.15	Spike	P	0 - 30
2362148	Silvex	8.15	Spike	P	0 - 30
2362148	Thiamethoxam	7.96	Spike	P	0 - 30
2362148	Tolfenpyrad	15.4	Spike	P	0 - 30
2362148	Triclopyr	2.35	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P421003

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362193	Total Alkalinity	0.902	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P421409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362320	TDS	4.99	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P421005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362193	Fluoride	0.474	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P420995

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362154	Organic Carbon	0.161	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2362147
Field Sample ID: G1TLHR0200

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	54.9	P	30 - 160

Lab Sample ID: 2362148
Field Sample ID: G1TLHR0200

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	101	P	30 - 160
EPA 8321B	Acetaminophen-d4	108	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.9	P	30 - 160
EPA 8321B	Diuron-d6	62.7	P	30 - 160
EPA 8321B	Endothall-d6	115	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	90.1	P	30 - 160
EPA 8321B	Primidone-d5	119	P	30 - 160
EPA 8321B	Sucralose-d6	86.9	P	30 - 160

Lab Sample ID: 2362149
Field Sample ID: G1TLHR0200

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.6	P	29 - 130
EPA 8270E	Decachlorobiphenyl	68.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	66.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	61.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	42.2	P	30 - 101
EPA 8276	PCNB	92.2	P	48 - 121

Lab Sample ID: 2362150
Field Sample ID: G1TLHR0200

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	72.1	P	20 - 200
EPA 8270E	Simazine-d10	115	P	62 - 142
EPA 8270E	Terbufos-d10	107	P	58 - 132
EPA 8270E	Terphenyl-d14	109	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A115283

Included Lab Sample IDs: 2362142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	98.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115295

Included Lab Sample IDs: 2362142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115315

Included Lab Sample IDs: 2362143

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A115346

Included Lab Sample IDs: 2362199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.4	96.6	P/P	90 - 110
Iron	99.8	98.5	P/P	90 - 110
Magnesium	99.0	97.2	P/P	90 - 110
Potassium	99.1	98.1	P/P	90 - 110
Sodium	101	99.7	P/P	90 - 110
Strontium	100	102	P/P	90 - 110
Tin	102	102	P/P	90 - 110
Titanium	103	103	P/P	90 - 110
Vanadium	103	103	P/P	90 - 110
Zinc	102	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115347

Included Lab Sample IDs: 2362147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	108	113	P/P	60 - 150
Aldicarb	137	107	P/P	60 - 150
Aldicarb Sulfone	104	107	P/P	50 - 150
Aldicarb Sulfoxide	105	104	P/P	50 - 150
Carbaryl	123	113	P/P	60 - 150
Carbofuran	108	97.6	P/P	50 - 150
Methiocarb	129	121	P/P	50 - 150
Methomyl	102	100	P/P	50 - 150
Oxamyl	103	105	P/P	50 - 150
Propoxur	102	107	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A115351

Included Lab Sample IDs: 2362143

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	98.4	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115353

Included Lab Sample IDs: 2362148

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	101	P/P	60 - 160
Endothall	106	104	P/P	60 - 160
Glufosinate	103	117	P/P	60 - 160
Glyphosate	101	106	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A115355

Included Lab Sample IDs: 2362148

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	104	P/P	60 - 160
Sucralose	88.2	89.7	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A115356

Included Lab Sample IDs: 2362142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	96.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115356

Included Lab Sample IDs: 2362142

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115368

Included Lab Sample IDs: 2362143

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	106	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A115378

Included Lab Sample IDs: 2362199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	101	P/P	90 - 110
Antimony	101	103	P/P	90 - 110
Arsenic	99.2	101	P/P	90 - 110
Barium	101	101	P/P	90 - 110
Beryllium	95.2	99.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A115378

Included Lab Sample IDs: 2362199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	101	99.4	P/P	90 - 110
Cadmium	100	102	P/P	90 - 110
Chromium	98.0	99.4	P/P	90 - 110
Cobalt	95.2	96.3	P/P	90 - 110
Copper	96.8	98.1	P/P	90 - 110
Lead	93.4	93.3	P/P	90 - 110
Manganese	98.3	99.1	P/P	90 - 110
Molybdenum	98.6	99.0	P/P	90 - 110
Nickel	97.2	98.3	P/P	90 - 110
Selenium	101	101	P/P	90 - 110
Silver	99.0	98.7	P/P	90 - 110
Thallium	96.5	96.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115379

Included Lab Sample IDs: 2362148

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	83.0	86.6	P/P	50 - 150
2,4,5-T	96.4	96.5	P/P	50 - 150
Acetaminophen	93.1	94.1	P/P	60 - 160
Acetamiprid	105	104	P/P	50 - 150
Afidopyropen	95.5	104	P/P	50 - 150
Bentazon	108	118	P/P	50 - 160
Benzovindiflupyr	113	111	P/P	50 - 150
Carbamazepine	94.9	97.5	P/P	60 - 150
Clothianidin	105	101	P/P	60 - 150
Dinotefuran	96.3	105	P/P	50 - 150
Diuron	103	111	P/P	60 - 160
Fenuron	88.8	99.0	P/P	60 - 150
Fluridone	118	125	P/P	60 - 160
Hydrocodone	113	105	P/P	60 - 150
Ibuprofen	90.0	100	P/P	50 - 160
Imazapyr	130	120	P/P	50 - 150
Imidacloprid	97.7	94.8	P/P	60 - 150
Linuron	100	86.9	P/P	60 - 150
Mandestrobin	107	111	P/P	50 - 150
MCPP	98.5	105	P/P	50 - 150
Naproxen	94.6	88.9	P/P	50 - 160
Primidone	97.7	94.4	P/P	60 - 150
Pyraclostrobin	104	106	P/P	60 - 150
Silvex	89.5	89.9	P/P	50 - 150
Thiamethoxam	101	106	P/P	50 - 150
Tolfenpyrad	95.1	98.0	P/P	60 - 150
Triclopyr	86.3	97.8	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A115380

Included Lab Sample IDs: 2362149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A115380

Included Lab Sample IDs: 2362149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.9		P	80 - 120
Toxaphene	94.3		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A115395

Included Lab Sample IDs: 2362142

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

Reference Method: EPA 8270E

Run ID: A115403

Included Lab Sample IDs: 2362149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.5		P	80 - 120
Alpha-BHC	98.2		P	80 - 120
Alpha-Chlordane	95.3		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	118		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	96.7		P	80 - 120
Cypermethrin	102		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	95.7		P	80 - 120
Delta-BHC	104		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	121*		F	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	97.6		P	80 - 120
Endosulfan II	99.6		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	102		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	98.7		P	80 - 120
Fenpropathrin	99.0		P	80 - 120
Gamma-BHC	102		P	80 - 120
Gamma-Chlordane	92.4		P	80 - 120
Heptachlor	97.4		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	97.1		P	80 - 120
Kepone	85.9		P	80 - 120
Lambda-Cyhalothrin	107		P	80 - 120
Methoprene	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115403
Included Lab Sample IDs: 2362149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	98.7		P	80 - 120
MGK-264	106		P	80 - 120
Mirex	95.5		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	109		P	80 - 120
Phenothrin	107		P	80 - 120
Piperonyl Butoxide	118		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	115		P	80 - 120
Trans-Nonachlor	97.5		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	99.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A115407
Included Lab Sample IDs: 2362150

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.4		P	80 - 120
Avobenzene	101		P	80 - 120
Dechlorane Plus	99.0		P	80 - 120
Octinoxate	96.4		P	80 - 120
Oxybenzone	94.8		P	80 - 120
PBDE-47	95.1		P	80 - 120
PBDE-99	99.5		P	80 - 120
Tri-o-cresyl Phosphate	97.5		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A115422
Included Lab Sample IDs: 2362143

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	98.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A115427
Included Lab Sample IDs: 2362143

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

Reference Method: EPA 8270E
Run ID: A115499
Included Lab Sample IDs: 2362150

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.3		P	80 - 120
Alachlor	96.1		P	80 - 120
Ametryn	92.8		P	80 - 120
Atrazine	91.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115499
Included Lab Sample IDs: 2362150

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine Desethyl	98.6		P	80 - 120
Azinphos Methyl	93.5		P	80 - 120
Azoxystrobin	100		P	80 - 120
Bromacil	92.4		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	111		P	80 - 120
Carbophenothion	88.5		P	80 - 120
Carfentrazone Ethyl	86.8		P	80 - 120
Chlorfenapyr	90.8		P	80 - 120
Chlorpyrifos Ethyl	95.0		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	80.2		P	80 - 120
Cyanazine	103		P	80 - 120
Cyprodinil	96.7		P	80 - 120
Demeton	98.7		P	80 - 120
Diazinon	105		P	80 - 120
Difenoconazole	91.5		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	93.2		P	80 - 120
Disulfoton	106		P	80 - 120
Dithiopyr	108		P	80 - 120
EPTC	104		P	80 - 120
Ethion	88.0		P	80 - 120
Ethoprop	103		P	80 - 120
Etridiazole	96.1		P	80 - 120
Fenamiphos	93.6		P	80 - 120
Fenbuconazole	91.8		P	80 - 120
Fipronil	96.2		P	80 - 120
Fipronil Desulfinyl	110		P	80 - 120
Fipronil Sulfide	97.1		P	80 - 120
Fipronil Sulfone	86.6		P	80 - 120
Fluazifop-P-butyl	80.7		P	80 - 120
Fludioxonil	84.3		P	80 - 120
Flumioxazin	84.3		P	80 - 120
Flutolanil	88.6		P	80 - 120
Fluxapyroxad	84.9		P	80 - 120
Fonofos	108		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	86.7		P	80 - 120
Iprodione	83.2		P	80 - 120
Loratadine	88.3		P	80 - 120
Malathion	103		P	80 - 120
Metalaxyl	97.2		P	80 - 120
Metolachlor	95.3		P	80 - 120
Metribuzin	94.5		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	99.4		P	80 - 120
Myclobutanil	87.5		P	80 - 120
Naled	104		P	80 - 120
Napropamide	93.8		P	80 - 120
Norflurazon	89.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115499
Included Lab Sample IDs: 2362150

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxadiazon	90.3		P	80 - 120
Oxyfluorfen	89.6		P	80 - 120
Parathion Ethyl	100		P	80 - 120
Parathion Methyl	87.8		P	80 - 120
Pendimethalin	102		P	80 - 120
Phenytoin	93.2		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	96.7		P	80 - 120
Prometon	106		P	80 - 120
Prometryn	97.1		P	80 - 120
Pronamide	94.6		P	80 - 120
Propanil	90.3		P	80 - 120
Propargite	90.0		P	80 - 120
Propiconazole	98.9		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	87.6		P	80 - 120
Pyriproxyfen	87.9		P	80 - 120
Simazine	90.8		P	80 - 120
Stirophos	96.8		P	80 - 120
Sulfentrazone	83.2		P	80 - 120
Tebuconazole	89.5		P	80 - 120
Terbufos	106		P	80 - 120
Terbuthylazine	105		P	80 - 120
Thiobencarb	94.7		P	80 - 120
Triadimefon	108		P	80 - 120

Reference Method: EPA 8270E
Run ID: A115513
Included Lab Sample IDs: 2362149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.0		P	80 - 120
PCB-1260	99.1		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	97.2				4.52	
EPA 180.1 Rev. 2.0	Turbidity	101				3.86	
EPA 200.7 Rev. 4.4	Calcium	100	100	100			3.30
	Iron	106	105	112	102		6.04
	Magnesium	107	103	114	97.4		6.13
	Potassium	104	104	109	102		3.12
	Sodium	100	102	102			4.14
	Strontium	105	105	108	99.6		3.24
	Tin	104	104	103	101		0.217
	Titanium	103	105	106	105		1.24
	Vanadium	103	104	105	106		1.19
	Zinc	103	102	104	101		1.61
EPA 200.8 Rev. 5.4	Aluminum	99.5	97.3	101	98.2		3.29
	Antimony	104	103	104	107		0.836
	Arsenic	100	100	102	103		1.89
	Barium	104	103	105	106		1.16
	Beryllium	94.2	93.1	95.9	93.1		2.99
	Boron	105	101	103	101		1.87
	Cadmium	98.7	98.9	98.7	101		0.212
	Chromium	101	100	103	102		2.07
	Cobalt	96.9	96.2	98.0	97.9		1.88
	Copper	98.0	98.2	99.9	97.2		1.70
	Lead	94.8	94.1	96.2	95.0		2.19
	Manganese	101	99.1	101	102		1.58
	Molybdenum	97.0	96.8	98.5	99.8		1.69
	Nickel	97.8	98.2	99.5	98.5		1.29
	Selenium	97.6	97.5	98.5	101		1.05
	Silver	101	99.2	101	101		1.53
	Thallium	90.3	92.5	96.7	93.3		4.42
EPA 300.0 Rev. 2.1	Chloride	101	97.2	98.2		3.15	
	Sulfate	103	98.4	99.0		1.53	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	99.4	99.0			0.365
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105					2.81
EPA 353.2 Rev. 2.0	NO2NO3-N	102	102	102			0.491
EPA 365.1 Rev. 2.0	Total-P	108	107	107			0.193
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.2	87.0	94.4			8.20
	Acetochlor	97.0	94.6	98.1			3.59
	Alachlor	89.9	80.6	90.3			11.4
	Aldrin	53.1	47.6	54.7			13.8
	Alpha-BHC	98.9	84.5	79.4			6.29
	Alpha-Chlordane	92.6	63.6	69.4			8.71
	Ametryn	87.7	90.9	97.6			7.08
	Atrazine	94.5					1.21
	Atrazine Desethyl	64.0	59.8	54.8			5.33
	Avobenzone	104	105	107			1.73
	Azinphos Methyl	124	121	120			0.710
	Azoxystrobin	109	116	103			9.80
	Beta-BHC	120	105	95.4			10.0
	Beta-Cyfluthrin	80.7	63.4	70.6			10.8
	Bifenthrin	59.3	50.2	60.7			18.9
	Bromacil	75.1	75.9	77.3			1.80
	Butylate	55.0	49.9	48.9			2.04

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Caffeine	70.6	81.5	83.4			2.41
	Carbophenothion	96.4	86.5	82.2			5.09
	Carfentrazone Ethyl	118	93.9	96.3			2.50
	Chlorfenapyr	104	76.9	88.0			13.4
	Chlorothalonil	141	55.0	47.8			14.0
	Chlorpyrifos Ethyl	112	87.9	105			17.6
	Chlorpyrifos Methyl	112	92.9	104			10.8
	Cis-Nonachlor	83.3	55.0	63.2			13.9
	Coumaphos	100	76.5	96.8			23.4
	Cyanazine	123	87.2	96.3			9.92
	Cypermethrin	81.2	67.2	74.5			10.4
	Cyprodinil	87.9	80.7	90.2			11.2
	Dacthal	96.8	83.6	83.6			0.0299
	DDD-p,p'	85.7	49.4	63.3			24.8
	DDE-p,p'	87.2	63.6	70.3			9.96
	DDT-p,p'	70.1	59.7	68.0			13.0
	Dechlorane Plus	125	91.6	115			22.4
	Delta-BHC	120	131	106			21.3
	Deltamethrin	105	83.2	90.8			8.72
	Demeton	88.8	90.6	84.0			7.66
	Diazinon	88.3	89.6	92.5			3.24
	Dichlobenil	50.7	58.1	60.9			4.70
	Dicofol	69.6	66.5	76.0			13.4
	Dieldrin	94.2	67.7	76.6			12.3
	Difenoconazole	121	131	130			1.12
	Dimethenamid	82.7	81.0	86.2			6.23
	Dimethomorph	98.1	117	97.8			18.2
	Disulfoton	82.0	88.4	95.9			8.11
	Dithiopyr	80.3	75.1	81.1			7.61
	Endosulfan I	86.6	71.8	77.9			8.15
	Endosulfan II	96.5	80.6	77.0			4.55
	Endosulfan Sulfate	100	66.3	72.3			8.65
	Endrin	90.8	70.7	77.5			9.17
	Endrin Aldehyde	106	54.2	59.8			9.78
	Endrin Ketone	90.9	74.0	79.9			7.79
	EPTC	55.5	53.6	51.1			4.61
	Esfenvalerate	85.2	66.1	72.6			9.43
	Ethalfuralin	77.3	68.3	78.3			13.6
	Ethion	79.1	57.8	79.1			31.1
	Ethoprop	91.9	94.7	90.3			4.72
	Etridiazole	56.7	64.8	55.4			15.7
	Fenamiphos	106	84.1	92.1			9.02
	Fenbuconazole	95.9	89.0	91.7			3.04
	Fenpropathrin	82.7	60.1	69.2			14.1
	Fipronil	91.7	84.4	92.2			8.82
	Fipronil Desulfinyl	98.7	90.3	96.5			6.57
	Fipronil Sulfide	74.1	70.6	75.3			6.44
	Fipronil Sulfone	74.2	56.9	71.1			22.1
	Fluazifop-P-butyl	89.1	78.4	92.9			16.9
	Fludioxonil	87.0	75.9	78.2			3.03
	Flumioxazin	145	139	143			3.38
	Flutolanil	88.7	80.2	83.2			3.20
	Fluxapyroxad	86.6	71.7	74.6			3.69
	Fonofos	93.4	80.9	94.7			15.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Gamma-BHC	93.9	107	93.6		13.6
	Gamma-Chlordane	89.2	62.9	67.7		7.37
	Heptachlor	74.1	53.4	57.5		7.45
	Heptachlor Epoxide	94.8	70.8	74.2		4.67
	Hexachlorobenzene	71.7	60.4	60.6		0.362
	Hexazinone	106	108	108		0.0767
	Imazalil	83.7	78.3	82.0		4.69
	Iprodione	109	90.9	88.8		2.26
	Kepone	100	43.8	47.8		8.74
	Lambda-Cyhalothrin	36.1	60.0	66.9		10.8
	Loratadine	91.3	105	93.8		11.2
	Malathion	118	106	122		14.3
	Metalaxyl	85.2	77.0	81.4		5.66
	Methoprene	69.4	48.7	59.0		19.2
	Methoxychlor	96.6	72.2	78.6		8.58
	Metolachlor	89.7	80.6	87.4		6.76
	Metribuzin	94.0	106	97.0		8.81
	Mevinphos	86.5	88.6	87.0		1.80
	MGK-264	94.3	75.3	76.0		0.888
	Mirex	61.8	52.1	62.2		17.8
	Molinate	62.1	67.7	63.5		6.40
	Myclobutanil	93.9	84.7	87.0		2.68
	Naled	105	102	106		3.80
	Napropamide	83.1	69.4	71.3		2.77
	Norflurazon	80.3	74.8	75.0		0.150
	Octinoxate	78.1	79.6	77.1		3.16
	Oxadiazon	78.7	69.6	74.9		7.34
	Oxybenzone	67.0	71.8	70.0		2.55
	Oxychlordane	78.1	66.7	70.3		5.32
	Oxyfluorfen	105	87.4	102		15.3
	Parathion Ethyl	98.4	96.4	93.7		2.77
	Parathion Methyl	104	112	103		7.89
	PBDE-47	79.8	73.9	73.3		0.884
	PBDE-99	84.9	68.5	84.6		21.1
	PCB-1016	86.6	70.8	67.9		4.26
	PCB-1260	101	70.0	65.4		6.70
	Pendimethalin	88.8	88.0	90.9		3.19
	Permethrin	86.9	67.9	73.8		8.34
	Phenothrin	58.1	50.1	61.4		20.3
	Phenytoin	50.4	43.4	60.7		33.2
	Phorate	86.4	78.8	83.6		5.89
	Piperonyl Butoxide	77.8	98.2	94.4		3.96
	Prallethrin	87.1	61.3	66.8		8.60
	Prodiamine	50.0	34.0	34.4		0.994
	Prometon	76.2	92.9	82.3		12.1
	Prometryn	85.5	75.5	80.3		6.11
	Pronamide	94.3	98.7	86.8		12.9
	Propanil	96.8	93.0	98.0		5.28
	Propargite	78.0	70.0	91.2		26.3
	Propiconazole	89.8	83.0	79.8		3.26
	Pyraflufen Ethyl	86.6	82.5	79.2		4.07
	Pyridaben	110	72.6	86.0		12.4
	Pyriproxyfen	92.5	84.5	89.8		6.07
	Simazine	79.6	79.2	79.9		0.876

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Stiropfos	91.2	63.7	86.7			30.5
	Sulfentrazone	91.4	86.5	86.9			0.467
	Tau-Fluvalinate	70.0	57.1	65.2			13.2
	Tebuconazole	59.4	54.0	73.2			22.2
	Terbufos	110	102	110			7.96
	Terbutylazine	93.3	93.8	93.8			0.0426
	Tetramethrin	117	88.4	97.2			9.48
	Thiobencarb	83.9	79.3	79.8			0.640
	Trans-Nonachlor	87.6	61.6	67.0			8.40
	Tri-o-cresyl Phosphate	77.6	71.5	72.9			2.02
	Triadimefon	89.0	75.6	88.1			15.3
	Triclosan Methyl	92.4	68.1	74.3			8.68
	Trifluralin	78.1	68.1	72.7			6.51
	Chlordane	68.6	60.9	56.9			6.74
EPA 8276	Toxaphene	62.0	65.6	57.7			12.8
EPA 8321B	2,4-D	81.1	94.6	103			7.49
	2,4,5-T	60.1	60.6	59.5			1.88
	3-Hydroxycarbofuran	96.7	101	116			14.2
	Acesulfame K	105	133	133			0.0987
	Acetaminophen	107	112	119			6.04
	Acetamiprid	88.8	73.0	79.6			8.60
	Afidopyropen	66.1	71.6	80.4			11.6
	Aldicarb	82.0	81.7	93.5			13.4
	Aldicarb Sulfone	98.7	114	117			2.27
	Aldicarb Sulfoxide	90.1	56.6	59.8			5.44
	AMPA	96.7	96.4	104			7.13
	Bentazon	118	61.7	71.9			7.83
	Benzovindiflupyr	100	85.8	94.8			9.60
	Carbamazepine	98.2	73.6	82.7			11.6
	Carbaryl	81.9	76.7	80.9			5.41
	Carbofuran	77.1	73.8	77.9			5.40
	Clothianidin	103	125	140			11.9
	Dinotefuran	115	139	155			9.53
	Diuron	90.7	66.9	65.6			1.52
	Endothall	101	118	114			3.81
	Fenuron	111	94.6	104			9.69
	Fluridone	122	99.1	111			10.9
	Glufosinate	101	96.1	99.9			3.89
	Glyphosate	106	100	99.4			0.570
	Hydrocodone	111	119	130			8.94
	Ibuprofen	86.6	80.7	88.3			8.98
	Imazapyr	148	132	136			2.53
	Imidacloprid	116	145	164			11.8
	Linuron	88.4	72.0	79.8			10.3
	Mandestrobin	113	92.9	104			10.8
	MCPP	82.4	78.8	85.2			7.86
	Methiocarb	91.0	86.6	86.0			0.679
	Methomyl	89.9	97.2	105			7.32
	Naproxen	119	92.9	122			27.1
	Oxamyl	90.6	96.7	102			5.49
	Primidone	106	108	113			4.65
	Propoxur	76.5	73.7	73.3			0.504
	Pyraclostrobin	95.7	87.3	94.7			8.15
	Silvex	71.4	71.7	77.8			8.15

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Sucralose	89.1	87.8	87.1		0.738
	Thiamethoxam	108	170	184		7.96
	Tolfenpyrad	49.3	49.6	57.9		15.4
	Triclopyr	65.6	60.5	61.9		2.35
SM 2320 B-2011	Total Alkalinity	98.2			0.902	
SM 2540 C-2015	TDS	98.0			4.99	
SM 2540 D-2015	TSS	101				
SM 4500-F- C-2011	Fluoride	101	107	108		0.474
SM 5310 B-2011	Organic Carbon	97.5	96.7	96.9		0.161

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2362142
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2362142
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2362199
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2362199
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2362142
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2362142
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2362143
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2362143
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2362143
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2362143
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2362150
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2362149
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2362150
EPA 8270E	PCBs in water matrices by GC/MS/MS	2362149
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2362149
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2362147
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2362148
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2362142
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2362199
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2362142
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2362142
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2362142
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2362143

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	10/12/2022			10/13/2022 11:16	Anna M. Plaviak	2362142
EPA 180.1 Rev. 2.0	10/12/2022			10/13/2022 10:42	Khloe J Berg	2362142
EPA 200.7 Rev. 4.4	10/12/2022	10/14/2022 11:20	George D Taylor	10/17/2022 17:18	McKinley C Carter	2362199
EPA 200.8 Rev. 5.4	10/12/2022	10/14/2022 11:20	George D Taylor	10/18/2022 18:00	Emily M Philpot	2362199
EPA 300.0 Rev. 2.1	10/12/2022			10/20/2022 09:37	Anna M. Plaviak	2362142
EPA 350.1 Rev. 2.0	10/12/2022			10/19/2022 14:29	Ping Hua	2362143
EPA 351.2 Rev. 2.0	10/12/2022	10/17/2022 12:50	Simonne.V. Calhoun	10/18/2022 14:14	Samantha L Bates	2362143
EPA 353.2 Rev. 2.0	10/12/2022			10/14/2022 12:08	Beverly Y. Sanders	2362143
EPA 365.1 Rev. 2.0	10/12/2022	10/14/2022 14:05	Adam P Silver	10/20/2022 12:11	Simonne.V. Calhoun	2362143
EPA 8270E	10/12/2022	10/14/2022 08:00	Fe-Val Siddell	10/19/2022 20:55	Vandana T. Nagar	2362149
	10/12/2022	10/14/2022 08:00	Fe-Val Siddell	10/26/2022 03:02	Michael Poppell	2362149
	10/12/2022	10/14/2022 08:30	Rasheda Ghaffari	10/18/2022 18:40	Lipi Saha	2362150
	10/12/2022	10/14/2022 08:30	Rasheda Ghaffari	10/21/2022 18:59	Michael Poppell	2362150
EPA 8276	10/12/2022	10/14/2022 08:00	Fe-Val Siddell	10/18/2022 14:12	Arthur Maknenko	2362149
EPA 8321B	10/12/2022	10/17/2022 09:30	June Rhew	10/17/2022 16:50	Juyoung Kim	2362147
	10/12/2022	10/17/2022 11:00	Umesh Chiluwal	10/17/2022 13:01	Umesh Chiluwal	2362148
	10/12/2022	10/17/2022 11:00	Umesh Chiluwal	10/17/2022 17:19	Umesh Chiluwal	2362148
	10/12/2022	10/18/2022 09:30	June Rhew	10/18/2022 15:34	Juyoung Kim	2362148
SM 2320 B-2011	10/12/2022			10/15/2022 01:49	Dale L. Simmons	2362142
SM 2340 B-2011	10/12/2022			10/17/2022 17:18	McKinley C Carter	2362199
SM 2540 C-2015	10/12/2022			10/18/2022 15:43	Yijie Li	2362142
SM 2540 D-2015	10/12/2022			10/18/2022 15:43	Yijie Li	2362142
SM 4500-F- C-2011	10/12/2022			10/15/2022 01:49	Dale L. Simmons	2362142
SM 5310 B-2011	10/12/2022			10/17/2022 14:02	Khloe J Berg	2362143