

Chemical Analysis Report

NE-DIST-2023-04-14-01

Florida DEP Laboratory
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DOH Accreditation E31780

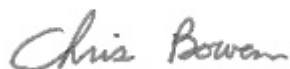
Event Description: **LSJR North 2023**
Request ID: **RQ-2023-04-10-26**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 08-MAY-2023 16:55



Case Narrative

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

Results for the following analytical groups are included in this report: 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: Little Sixmile CR at Pickettville Rd.

Collection Date/Time: 04/13/2023 10:15

Field ID: 20030011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400427	DEP SOP: NU-094-1	Color (true)	41		PCU	P428528	
	EPA 180.1 Rev. 2.0	Turbidity	6.4		NTU	P428532	
	EPA 300.0 Rev. 2.1	Chloride	42		mg Cl/L	P428892	
		Sulfate	31		mg SO4/L	P428896	
	SM 2320 B-2011	Total Alkalinity	114		mg CaCO3/L	P428657	
	SM 2540 C-2015	TDS	230		mg/L	P429116	
	SM 2540 D-2015	TSS	3	I	mg/L	P428907	
	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P428931	
2400428	EPA 350.1 Rev. 2.0	Ammonia-N	0.17		mg N/L	P428790	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.58		mg N/L	P428540	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.092		mg N/L	P428938	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P428604	
	SM 5310 B-2011	Organic Carbon	9.1		mg C/L	P428701	

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: Little Trout River at Old Kings Rd.

Collection Date/Time: 04/13/2023 11:05

Field ID: 20030739

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400423	DEP SOP: NU-094-1	Color (true)	140		PCU	P428528	
	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P428532	
	EPA 300.0 Rev. 2.1	Chloride	320		mg Cl/L	P428892	
		Sulfate	46		mg SO4/L	P428896	
	SM 2320 B-2011	Total Alkalinity	77		mg CaCO3/L	P428657	
	SM 2540 C-2015	TDS	720		mg/L	P429116	
	SM 2540 D-2015	TSS	3	I	mg/L	P428907	
2400424	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P428931	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.086		mg N/L	P428966	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.79		mg N/L	P428540	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P428938	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P428604	
2400439	SM 5310 B-2011	Organic Carbon	20		mg C/L	P428701	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P428433	
		Acesulfame K	0.10	U	ug/L	P428489	
		2,4,5-T	0.0040	U	ug/L	P428433	
		AMPA	0.20	I	ug/L	P428489	
		Acetaminophen	0.60		ug/L	P428433	
		Acetamiprid	0.0020	U	ug/L	P428433	
		Endothall	0.25	U	ug/L	P428489	
		Glufosinate	0.10	U	ug/L	P428489	
		Glyphosate	0.10	U	ug/L	P428489	
		Afidopyropen	0.0020	U	ug/L	P428433	
		Bentazon	8.3E-04	I	ug/L	P428433	
		Sucralose	0.28		ug/L	P428489	
		Benzovindiflupyr	0.0020	U	ug/L	P428433	
		Carbamazepine	8.0E-04	U	ug/L	P428433	
		Clothianidin	0.0020	U	ug/L	P428433	
		Dinotefuran	0.0020	U	ug/L	P428433	
		Diuron	0.0032	I	ug/L	P428433	
		Fenuron	0.032	U	ug/L	P428433	MS
		Fluridone	0.0023	I	ug/L	P428433	
		Imazapyr	0.017		ug/L	P428433	
		Hydrocodone	0.0020	U	ug/L	P428433	
		Ibuprofen	0.080	U	ug/L	P428433	
		Imidacloprid	0.0020	U	ug/L	P428433	
		Linuron	0.0040	U	ug/L	P428433	
		Mandestrobin	0.0020	U	ug/L	P428433	
		MCP	0.0020	U	ug/L	P428433	
		Naproxen	0.0080	U	ug/L	P428433	
		Primidone	0.0040	U	ug/L	P428433	
		Pyraclostrobin	0.0020	U	ug/L	P428433	
		Silvex	0.0040	U	ug/L	P428433	
		Thiamethoxam	0.0020	U	ug/L	P428433	

Field ID: 20030739

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400439	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P428433	
		Triclopyr	0.0040	U	ug/L	P428433	

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.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Tributary to Trout at Capper Rd.

Collection Date/Time: 04/13/2023 11:45

Field ID: G2NE1208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400425	DEP SOP: NU-094-1	Color (true)	51		PCU	P428528	
	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P428532	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P428892	
		Sulfate	13		mg SO4/L	P428896	
	SM 2320 B-2011	Total Alkalinity	61		mg CaCO3/L	P428657	
	SM 2540 C-2015	TDS	142		mg/L	P429116	
	SM 2540 D-2015	TSS	3	I	mg/L	P428907	
2400426	SM 4500-F- C-2011	Fluoride	0.10		mg F/L	P428931	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.075		mg N/L	P428790	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.36		mg N/L	P428540	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.084		mg N/L	P428938	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P428604	
2400440	SM 5310 B-2011	Organic Carbon	7.3		mg C/L	P428701	
	EPA 8321B	2,4-D	0.49		ug/L	P428433	
		Acesulfame K	0.17	I	ug/L	P428489	
		2,4,5-T	0.0040	U	ug/L	P428433	
		AMPA	0.20	I	ug/L	P428489	
		Acetaminophen	0.016	I	ug/L	P428433	
		Acetamiprid	0.0020	U	ug/L	P428433	
		Endothall	0.25	U	ug/L	P428489	
		Glufosinate	0.10	U	ug/L	P428489	
		Glyphosate	0.61		ug/L	P428489	
		Afidopyropen	0.0020	U	ug/L	P428433	
		Bentazon	0.0049		ug/L	P428433	
		Sucralose	0.39		ug/L	P428489	
		Benzovindiflupyr	0.0020	U	ug/L	P428433	
		Carbamazepine	0.0012	I	ug/L	P428433	
		Clothianidin	0.0020	U	ug/L	P428433	
		Dinotefuran	0.0020	U	ug/L	P428433	
		Diuron	0.0037	I	ug/L	P428433	
		Fenuron	0.032	U	ug/L	P428433	MS
		Fluridone	0.0070		ug/L	P428433	
		Imazapyr	0.14		ug/L	P428433	
		Hydrocodone	0.0020	U	ug/L	P428433	
		Ibuprofen	0.080	U	ug/L	P428433	
		Imidacloprid	0.0071	I	ug/L	P428433	
		Linuron	0.0040	U	ug/L	P428433	
		Mandestrobin	0.0020	U	ug/L	P428433	
		MCPP	0.0020	U	ug/L	P428433	
		Naproxen	0.0080	U	ug/L	P428433	
		Primidone	0.0040	U	ug/L	P428433	
		Pyraclostrobin	0.0020	U	ug/L	P428433	
		Silvex	0.0055	I	ug/L	P428433	
		Thiamethoxam	0.0020	U	ug/L	P428433	

Field ID: G2NE1208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400440	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P428433	
		Triclopyr	0.0040	U	ug/L	P428433	

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.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Tributary to Trout at Bessent Rd.

Collection Date/Time: 04/13/2023 12:05

Field ID: G2NE1207

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400441	EPA 8321B	Aldicarb	0.020	U	ug/L	P428314	
		Aldicarb Sulfone	0.0020	U	ug/L	P428314	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P428314	MS
		Carbaryl	0.0020	U	ug/L	P428314	
		Carbofuran	0.0020	U	ug/L	P428314	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P428314	
		Methiocarb	0.0020	U	ug/L	P428314	
		Methomyl	0.0020	U	ug/L	P428314	
		Oxamyl	0.0020	U	ug/L	P428314	
		Propoxur	0.0020	U	ug/L	P428314	
2400442		Acesulfame K	0.11	I	ug/L	P428489	
		2,4-D	0.11		ug/L	P428534	
		AMPA	1.0	U	ug/L	P428489	
		2,4,5-T	0.0040	U	ug/L	P428534	
		Acetaminophen	0.0080	U	ug/L	P428534	
		Endothall	0.25	U	ug/L	P428489	
		Acetamiprid	0.0020	U	ug/L	P428534	
		Glufosinate	1.0	U	ug/L	P428489	
		Glyphosate	1.0	U	ug/L	P428489	
		Afidopyropen	0.0020	U	ug/L	P428534	
		Sucralose	0.35		ug/L	P428489	
		Bentazon	0.0098		ug/L	P428534	
		Benzovindiflupyr	0.0020	U	ug/L	P428534	
		Carbamazepine	9.1E-04	I	ug/L	P428534	
		Clothianidin	0.0020	U	ug/L	P428534	
		Dinotefuran	0.0020	U	ug/L	P428534	
		Diuron	0.025		ug/L	P428534	
		Fenuron	0.032	U	ug/L	P428534	
		Fluridone	0.0043		ug/L	P428534	
		Imazapyr	0.19		ug/L	P428534	
		Hydrocodone	0.0020	U	ug/L	P428534	
		Ibuprofen	0.080	U	ug/L	P428534	
		Imidacloprid	0.010		ug/L	P428534	
		Linuron	0.0051	I	ug/L	P428534	
		Mandestrobin	0.0020	U	ug/L	P428534	
		MCPP	0.0020	U	ug/L	P428534	
		Naproxen	0.0080	U	ug/L	P428534	
		Primidone	0.0040	U	ug/L	P428534	
		Pyraclostrobin	0.0020	U	ug/L	P428534	
		Silvex	0.0040	U	ug/L	P428534	
		Thiamethoxam	0.0020	U	ug/L	P428534	
		Tolfenpyrad	0.0020	U	ug/L	P428534	
		Triclopyr	0.0040	U	ug/L	P428534	
2400443	EPA 8270E	Aldrin	0.69	U	ng/L	P428516	

Field ID: G2NE1207

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400443	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P428516	
		Alpha-Chlordane	0.21	U	ng/L	P428516	
		PCB-1016	2.1	U	ng/L	P428516	
		Beta-BHC	0.11	U	ng/L	P428516	
		PCB-1221	2.1	U	ng/L	P428516	
		Beta-Cyfluthrin	1.3	U	ng/L	P428516	
		PCB-1232	2.1	U	ng/L	P428516	
		Bifenthrin	0.53	U	ng/L	P428516	
		PCB-1242	2.1	U	ng/L	P428516	
		PCB-1248	2.1	U	ng/L	P428516	
		Chlorothalonil	3.8	U	ng/L	P428516	
		PCB-1254	2.1	U	ng/L	P428516	
		Cis-Nonachlor	0.21	U	ng/L	P428516	
		PCB-1260	2.1	U	ng/L	P428516	
		Cypermethrin	1.6	U	ng/L	P428516	
		Dacthal	0.16	U	ng/L	P428516	
		DDD-p,p'	0.26	U	ng/L	P428516	
		DDE-p,p'	0.21	U	ng/L	P428516	
		DDT-p,p'	0.26	U	ng/L	P428516	
		Delta-BHC	0.42	U	ng/L	P428516	
		Deltamethrin	1.3	U	ng/L	P428516	
		Dichlobenil	0.26	U	ng/L	P428516	
		Dicofol	1.3	U	ng/L	P428516	
		Dieldrin	0.42	U	ng/L	P428516	
		Endosulfan I	0.42	U	ng/L	P428516	
		Endosulfan II	0.42	U	ng/L	P428516	
		Endosulfan Sulfate	0.32	U	ng/L	P428516	
		Endrin	0.42	U	ng/L	P428516	
		Endrin Aldehyde	0.79	U	ng/L	P428516	
		Endrin Ketone	0.42	U	ng/L	P428516	
		Esfenvalerate	0.79	U	ng/L	P428516	
		Ethalfuralin	0.16	U	ng/L	P428516	
		Fenpropathrin	0.26	U	ng/L	P428516	
		Gamma-BHC	0.13	U	ng/L	P428516	RPD
		Gamma-Chlordane	0.21	U	ng/L	P428516	
		Heptachlor	0.21	U	ng/L	P428516	
		Heptachlor Epoxide	0.26	U	ng/L	P428516	
		Hexachlorobenzene**	1.1	U	ng/L	P428516	
		Kepone	5.3	UJ	ng/L	P428516	CCV
		Lambda-Cyhalothrin	0.79	U	ng/L	P428516	
		Methoprene	0.79	U	ng/L	P428516	
		Methoxychlor	0.32	U	ng/L	P428516	
		MGK-264	0.21	U	ng/L	P428516	
		Mirex	0.37	U	ng/L	P428516	
		Oxychlordane	0.32	U	ng/L	P428516	

Field ID: G2NE1207

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400443	EPA 8270E	Permethrin	1.7	U	ng/L	P428516	
		Phenothrin	0.95	U	ng/L	P428516	
		Piperonyl Butoxide	0.26	I	ng/L	P428516	
		Prallethrin	2.1	U	ng/L	P428516	
		Tau-Fluvalinate	0.26	U	ng/L	P428516	
		Tetramethrin	0.79	U	ng/L	P428516	
		Trans-Nonachlor	0.21	U	ng/L	P428516	
		Triclosan Methyl	0.16	U	ng/L	P428516	
		Trifluralin	0.21	U	ng/L	P428516	
		Chlordane	2.1	U	ng/L	P428516	
	EPA 8276	Toxaphene	16	U	ng/L	P428516	
		Oxybenzone**	10	U	ng/L	P428618	
2400444	EPA 8270E	Acetochlor	0.21	U	ng/L	P428618	
		Octinoxate**	96	V	ng/L	P428618	
		Alachlor	0.42	U	ng/L	P428618	
		Avobenzone**	100	U	ng/L	P428618	
		Ametryn	1.5	I	ng/L	P428618	
		Atrazine	24		ng/L	P428618	
		PBDE-47**	4.2	U	ng/L	P428618	RPD
		Atrazine Desethyl	1.4	U	ng/L	P428618	
		PBDE-99**	5.2	U	ng/L	P428618	RPD
		Azinphos Methyl	3.1	U	ng/L	P428618	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P428618	
		Azoxystrobin	2.3		ng/L	P428618	
		Bromacil	0.63	U	ng/L	P428618	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P428618	
		Butylate	0.21	U	ng/L	P428618	
		Dechlorane Plus**	31	U	ng/L	P428618	
		Caffeine**	49		ng/L	P428618	MS, RPD
		Dechlorane 602**	5.2	U	ng/L	P428618	MS, RPD
		Carbophenothion	0.52	U	ng/L	P428618	
		Dechlorane 603**	4.2	U	ng/L	P428618	
		Carfentrazone Ethyl	0.16	U	ng/L	P428618	
		Hexabromobenzene**	6.3	U	ng/L	P428618	
		Chlorfenapyr	0.31	U	ng/L	P428618	
		PBB-153**	8.4	U	ng/L	P428618	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P428618	
		Pentabromotoluene**	3.1	U	ng/L	P428618	
		Chlorpyrifos Methyl	0.10	U	ng/L	P428618	
		Tris(2-chloroethyl) phosphate (TCEP)**	73	U	ng/L	P428618	
		Coumaphos	1.1	U	ng/L	P428618	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	73	J	ng/L	P428618	LCS
		Cyanazine	5.2	U	ng/L	P428618	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	16		ng/L	P428618	

Field ID: G2NE1207

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400444	EPA 8270E	Cyprodinil	0.21	U	ng/L	P428618	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P428618	
		Demeton	3.7	U	ng/L	P428618	
		Diazinon	0.13	U	ng/L	P428618	
		Difenoconazole	0.63	U	ng/L	P428618	
		Dimethenamid	0.11	I	ng/L	P428618	MS
		Dimethomorph	0.31	U	ng/L	P428618	
		Disulfoton	0.63	U	ng/L	P428618	
		Dithiopyr	1.0	U	ng/L	P428618	
		EPTC	0.52	U	ng/L	P428618	
		Ethion	0.31	U	ng/L	P428618	
		Ethoprop	0.13	U	ng/L	P428618	
		Etridiazole	0.10	U	ng/L	P428618	
		Fenamiphos	0.47	U	ng/L	P428618	
		Fenbuconazole	0.52	U	ng/L	P428618	
		Fipronil	0.49	I	ng/L	P428618	
		Fipronil Desulfinyl**	0.58		ng/L	P428618	
		Fipronil Sulfide	0.59		ng/L	P428618	
		Fipronil Sulfone	1.4		ng/L	P428618	
		Fluazifop-P-butyl	0.10	U	ng/L	P428618	
		Fludioxonil	0.10	U	ng/L	P428618	
		Flumioxazin	3.1	U	ng/L	P428618	
		Flutolanil	0.10	U	ng/L	P428618	
		Fluxapyroxad	0.26	U	ng/L	P428618	
		Fonofos	0.16	U	ng/L	P428618	RPD
		Hexazinone	0.52	U	ng/L	P428618	
		Imazalil	0.68	U	ng/L	P428618	
		Iprodione	0.52	U	ng/L	P428618	
		Loratadine**	0.31	U	ng/L	P428618	
		Malathion	0.37	U	ng/L	P428618	
		Metalaxyl	18		ng/L	P428618	
		Metolachlor	11		ng/L	P428618	
		Metribuzin	1.7	I	ng/L	P428618	
		Mevinphos	1.0	U	ng/L	P428618	
		Molinate	0.26	U	ng/L	P428618	
		Myclobutanil	0.37	U	ng/L	P428618	
		Naled	2.6	U	ng/L	P428618	
		Napropamide	0.73	U	ng/L	P428618	
		Norflurazon	1.0	U	ng/L	P428618	
		Oxadiazon	1.1	I	ng/L	P428618	
		Oxyfluorfen	0.21	U	ng/L	P428618	
		Parathion Ethyl	0.16	U	ng/L	P428618	
		Parathion Methyl	0.21	U	ng/L	P428618	
		Pendimethalin	0.78	UJ	ng/L	P428618	LCS
		Phenytain**	5.5	U	ng/L	P428618	

Field ID: G2NE1207

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400444	EPA 8270E	Phorate	0.26	U	ng/L	P428618	
		Prodiamine	0.21	U	ng/L	P428618	
		Prometon	3.1	U	ng/L	P428618	
		Prometryn	0.37	U	ng/L	P428618	
		Pronamide	0.10	U	ng/L	P428618	MS
		Propanil	0.10	U	ng/L	P428618	
		Propargite	0.84	U	ng/L	P428618	
		Propiconazole	8.0		ng/L	P428618	
		Pyraflufen Ethyl	0.31	U	ng/L	P428618	
		Pyridaben	1.5	U	ng/L	P428618	
		Pyriproxyfen	0.26	U	ng/L	P428618	
		Simazine	1.4		ng/L	P428618	
		Stirophos	0.42	U	ng/L	P428618	
		Sulfentrazone	3.1	I	ng/L	P428618	
		Tebuconazole	9.6		ng/L	P428618	
		Terbufos	0.21	U	ng/L	P428618	
		Terbutylazine	0.21	U	ng/L	P428618	
		Thiobencarb	0.52	U	ng/L	P428618	
		Triadimefon	0.16	U	ng/L	P428618	

Ref. Method and Comment:
 EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.
 EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
 EPA 8270E: MS accuracy for TCPP & TDCPP not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of octinoxate in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.
 EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P428528

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428532

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428892

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428896

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428790

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428966

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428540

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428938

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428604

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P428516

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428516

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: P428516

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 8270E

Batch ID: P428618

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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428618

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428618

Component	Result	Code	Units
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
Metalaxyl	0.50	U	ng/L
Metalaxyl	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	68		ng/L
Octinoxate	59	I	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
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
Phenytoln	5.3	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428618

Component	Result	Code	Units
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	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
Stiophos	0.40	U	ng/L
Stiophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
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)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276

Batch ID: P428516

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: P428314

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: P428433

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P428489

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: P428534

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

Reference Method: SM 2320 B-2011

Batch ID: P428657

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

Reference Method: SM 2540 C-2015

Batch ID: P429116

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P428907

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P428931

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P428701

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: P428528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.8		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428892

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428896

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428790

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428966

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428540

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428938

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428604

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428516

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.6		P	10 - 92.0
Alpha-BHC	95.1		P	75 - 107
Alpha-Chlordane	80.8		P	50 - 108
Beta-BHC	92.6		P	36 - 138
Beta-Cyfluthrin	96.4		P	20 - 161
Bifenthrin	67.9		P	10 - 119
Chlorothalonil	70.3		P	26 - 186
Cis-Nonachlor	76.0		P	42 - 119
Cypermethrin	92.4		P	22 - 150
Dacthal	95.7		P	72 - 119
DDD-p,p'	71.9		P	45 - 107
DDE-p,p'	77.1		P	48 - 106
DDT-p,p'	81.2		P	48 - 110
Delta-BHC	90.1		P	54 - 140
Deltamethrin	105		P	22 - 189
Dichlobenil	70.1		P	36 - 117
Dicofol	82.9		P	46 - 155
Dieldrin	79.0		P	54 - 110
Endosulfan I	77.1		P	59 - 105
Endosulfan II	81.7		P	51 - 118
Endosulfan Sulfate	91.6		P	57 - 121
Endrin	84.5		P	10 - 120
Endrin Aldehyde	80.5		P	34 - 118
Endrin Ketone	127		P	69 - 177
Esfenvalerate	90.0		P	23 - 168
Ethalfuralin	79.7		P	49 - 99.0
Fenpropathrin	86.2		P	34 - 117
Gamma-BHC	87.3		P	72 - 117
Gamma-Chlordane	76.6		P	43 - 106
Heptachlor	72.0		P	41 - 98.0
Heptachlor Epoxide	84.7		P	57 - 106
Hexachlorobenzene	63.4		P	36 - 99.0
Kepone	86.5		P	16 - 215
Lambda-Cyhalothrin	80.2		P	21 - 177
Methoprene	63.9		P	10 - 119
Methoxychlor	93.2		P	60 - 112
MGK-264	79.6		P	26 - 122
Mirex	65.4		P	10 - 169
Oxychlordane	74.1		P	43 - 105
PCB-1016	81.3		P	48 - 112
PCB-1260	75.0		P	44 - 118
Permethrin	86.3		P	24 - 148
Phenothrin	59.5		P	10 - 106
Piperonyl Butoxide	93.9		P	10 - 139
Prallethrin	68.1		P	17 - 109
Tau-Fluvalinate	84.3		P	13 - 131
Tetramethrin	73.6		P	10 - 132
Trans-Nonachlor	77.5		P	44 - 106
Triclosan Methyl	79.7		P	59 - 109
Trifluralin	82.6		P	44 - 101

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428618

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.7		P	42 - 162
Acetochlor	72.8		P	69 - 123
Alachlor	106		P	65 - 118
Ametryn	107		P	58 - 141
Atrazine	98.3		P	73 - 118
Atrazine Desethyl	90.1		P	32 - 125
Avobenzone	124		P	40 - 203
Azinphos Methyl	116		P	36 - 197
Azoxystrobin	104		P	58 - 226
Bromacil	112		P	48 - 120
Butylate	61.8		P	27 - 85.0
Caffeine	93.1		P	40 - 137
Carbophenothion	111		P	54 - 132
Carfentrazone Ethyl	127		P	60 - 142
Chlorfenapyr	65.0		P	53 - 117
Chlorpyrifos Ethyl	82.6		P	59 - 116
Chlorpyrifos Methyl	96.1		P	66 - 119
Coumaphos	137		P	11 - 234
Cyanazine	131		P	61 - 248
Cyprodinil	91.3		P	50 - 147
Dechlorane 602	74.9		P	50 - 150
Dechlorane 603	99.2		P	50 - 150
Dechlorane Plus	64.0		P	47 - 182
Demeton	76.3		P	30 - 138
Diazinon	118		P	67 - 126
Difenoconazole	111		P	38 - 205
Dimethenamid	108		P	57 - 111
Dimethomorph	83.3		P	16 - 212
Disulfoton	108		P	46 - 126
Dithiopyr	107		P	62 - 115
EPTC	60.9		P	28 - 80.0
Ethion	106		P	24 - 122
Ethoprop	101		P	62 - 113
Etridiazole	66.5		P	28 - 92.0
Fenamiphos	77.7		P	57 - 128
Fenbuconazole	79.5		P	52 - 155
Fipronil	75.5		P	63 - 130
Fipronil Desulfinyl	94.6		P	61 - 130
Fipronil Sulfide	89.0		P	56 - 117
Fipronil Sulfone	107		P	52 - 118
Fluazifop-P-butyl	70.7		P	61 - 128
Fludioxonil	83.7		P	59 - 129
Flumioxazin	183		P	30 - 250
Flutolanil	82.5		P	53 - 127
Fluxapyroxad	103		P	42 - 132
Fonofos	83.3		P	61 - 110
Hexabromobenzene	86.1		P	50 - 150
Hexazinone	96.1		P	46 - 139
Imazalil	77.2		P	40 - 139
Iprodione	91.3		P	40 - 146
Loratadine	140		P	10 - 224
Malathion	96.5		P	61 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428618

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	107		P	58 - 121
Metolachlor	90.5		P	64 - 118
Metribuzin	109		P	45 - 245
Mevinphos	88.7		P	49 - 118
Molinate	61.0		P	42 - 92.0
Myclobutanil	110		P	55 - 127
Naled	43.5		P	10 - 114
Napropamide	79.9		P	39 - 121
Norflurazon	104		P	55 - 129
Octinoxate	110		P	26 - 166
Oxadiazon	92.5		P	54 - 115
Oxybenzone	68.8		P	49 - 135
Oxyfluorfen	96.8		P	64 - 139
Parathion Ethyl	93.8		P	70 - 111
Parathion Methyl	108		P	76 - 136
PBB-153	100		P	50 - 150
PBDE-47	78.4		P	41 - 148
PBDE-99	80.3		P	38 - 147
Pendimethalin	135		F	52 - 118
Pentabromotoluene	72.0		P	50 - 150
Phenytoin	127		P	10 - 162
Phorate	96.3		P	40 - 122
Prodiamine	68.8		P	26 - 141
Prometon	102		P	54 - 122
Prometryn	126		P	61 - 128
Pronamide	114		P	72 - 121
Propanil	122		P	45 - 144
Propargite	108		P	10 - 199
Propiconazole	70.3		P	56 - 127
Pyraflufen Ethyl	57.3		P	56 - 140
Pyridaben	80.5		P	26 - 211
Pyriproxyfen	122		P	33 - 194
Simazine	80.5		P	67 - 121
Stirophos	97.3		P	20 - 142
Sulfentrazone	104		P	21 - 144
Tebuconazole	90.6		P	10 - 122
Terbufos	117		P	60 - 129
Terbuthylazine	82.8		P	69 - 113
Tetradecachloro-m-terphenyl	139		P	70 - 200
Thiobencarb	110		P	51 - 120
Tri-o-cresyl Phosphate	80.7		P	49 - 150
Triadimefon	95.1		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	43.4		F	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	69.3		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	78.0		P	70 - 180

Reference Method: EPA 8276

Batch ID: P428516

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.6		P	61 - 116
Toxaphene	95.7		P	48 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P428314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	70.0		P	40 - 150
Aldicarb	62.7		P	30 - 150
Aldicarb Sulfone	81.2		P	40 - 150
Aldicarb Sulfoxide	98.4		P	40 - 150
Carbaryl	86.4		P	40 - 150
Carbofuran	76.3		P	40 - 150
Methiocarb	76.1		P	40 - 150
Methomyl	85.1		P	40 - 150
Oxamyl	80.2		P	40 - 150
Propoxur	76.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.4		P	40 - 150
2,4,5-T	84.6		P	40 - 150
Acetaminophen	69.2		P	30 - 150
Acetamiprid	79.1		P	40 - 150
Afidopyropen	58.0		P	30 - 150
Bentazon	80.6		P	30 - 150
Benzovindiflupyr	81.4		P	40 - 150
Carbamazepine	78.5		P	40 - 150
Clothianidin	82.7		P	40 - 150
Dinotefuran	88.1		P	40 - 150
Diuron	99.6		P	40 - 150
Fenuron	79.1		P	40 - 150
Fluridone	64.9		P	40 - 150
Hydrocodone	83.7		P	40 - 150
Ibuprofen	59.7		P	40 - 150
Imazapyr	87.2		P	40 - 150
Imidacloprid	82.3		P	40 - 150
Linuron	70.3		P	40 - 150
Mandestrobin	83.2		P	40 - 150
MCPP	96.8		P	40 - 150
Naproxen	66.0		P	40 - 150
Primidone	83.8		P	40 - 150
Pyraclostrobin	74.4		P	40 - 150
Silvex	100		P	40 - 150
Thiamethoxam	80.2		P	40 - 150
Tolfenpyrad	53.0		P	30 - 150
Triclopyr	95.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.5		P	40 - 150
AMPA	121		P	40 - 150
Endothall	94.0		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	126		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P428489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	100		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P428534

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	112		P	40 - 150
2,4,5-T	110		P	40 - 150
Acetaminophen	77.1		P	30 - 150
Acetamiprid	84.5		P	40 - 150
Afidopyropen	73.7		P	30 - 150
Bentazon	77.1		P	30 - 150
Benzovindiflupyr	86.9		P	40 - 150
Carbamazepine	85.2		P	40 - 150
Clothianidin	88.7		P	40 - 150
Dinotefuran	88.1		P	40 - 150
Diuron	109		P	40 - 150
Fenuron	88.3		P	40 - 150
Fluridone	82.5		P	40 - 150
Hydrocodone	90.7		P	40 - 150
Ibuprofen	67.6		P	40 - 150
Imazapyr	99.4		P	40 - 150
Imidacloprid	93.2		P	40 - 150
Linuron	88.0		P	40 - 150
Mandestrobin	83.2		P	40 - 150
MCPP	103		P	40 - 150
Naproxen	64.9		P	40 - 150
Primidone	93.5		P	40 - 150
Pyraclostrobin	74.9		P	40 - 150
Silvex	106		P	40 - 150
Thiamethoxam	84.8		P	40 - 150
Tolfenpyrad	51.0		P	30 - 150
Triclopyr	110		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P428657

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.6		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P429116

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

Reference Method: SM 2540 D-2015
Batch ID: P428907

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.9		P	85 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P428931

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

Reference Method: SM 5310 B-2011
Batch ID: P428701

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428892

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400329	Chloride	98.0		P	90 - 110
2400491	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428896

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400329	Sulfate	98.5		P	90 - 110
2400491	Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428790

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399914	Ammonia-N	99.8	99.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401122	Ammonia-N	98.6	96.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400426	Kjeldahl Nitrogen	101	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400411	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400428	Total-P	100	101	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P428516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400278	PCB-1016	84.8	99.4	P/P	46 - 111
2400278	PCB-1260	77.8	82.8	P/P	45 - 114
2400372	Aldrin	46.1	46.9	P/P	20 - 82.0
2400372	Alpha-BHC	92.1	88.6	P/P	71 - 109
2400372	Alpha-Chlordane	54.0	52.8	P/P	42 - 106
2400372	Beta-BHC	111	89.2	P/P	69 - 180
2400372	Beta-Cyfluthrin	92.2	73.8	P/P	18 - 175
2400372	Bifenthrin	56.2	59.3	P/P	21 - 128

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400372	Chlorothalonil	93.7	63.8	P/P	10 - 300
2400372	Cis-Nonachlor	55.8	63.8	P/P	34 - 106
2400372	Cypermethrin	84.3	69.5	P/P	22 - 158
2400372	Dacthal	95.6	88.0	P/P	54 - 116
2400372	DDD-p,p'	52.8	58.5	P/P	34 - 107
2400372	DDE-p,p'	59.8	67.4	P/P	33 - 110
2400372	DDT-p,p'	68.8	66.8	P/P	50 - 122
2400372	Delta-BHC	110	86.9	P/P	77 - 193
2400372	Deltamethrin	103	77.9	P/P	10 - 195
2400372	Dichlobenil	70.3	58.3	P/P	25 - 113
2400372	Dicofol	73.0	71.2	P/P	38 - 247
2400372	Dieldrin	64.3	71.6	P/P	45 - 118
2400372	Endosulfan I	61.0	69.5	P/P	51 - 106
2400372	Endosulfan II	65.0	73.0	P/P	37 - 122
2400372	Endosulfan Sulfate	85.5	79.6	P/P	43 - 132
2400372	Endrin	63.0	71.6	P/P	29 - 101
2400372	Endrin Aldehyde	79.9	72.0	P/P	19 - 110
2400372	Endrin Ketone	115	111	P/P	60 - 140
2400372	Esfenvalerate	90.0	68.4	P/P	26 - 199
2400372	Ethalfuralin	66.4	65.2	P/P	45 - 99.0
2400372	Fenpropathrin	76.3	66.0	P/P	35 - 120
2400372	Gamma-BHC	113	87.2	P/P	63 - 128
2400372	Gamma-Chlordane	54.9	63.1	P/P	40 - 104
2400372	Heptachlor	61.8	62.2	P/P	36 - 97.0
2400372	Heptachlor Epoxide	69.1	63.3	P/P	49 - 184
2400372	Hexachlorobenzene	53.7	49.3	P/P	39 - 96.0
2400372	Kepone	115	87.0	P/P	10 - 217
2400372	Lambda-Cyhalothrin	83.2	67.3	P/P	21 - 193
2400372	Methoprene	58.3	58.9	P/P	20 - 106
2400372	Methoxychlor	86.0	78.2	P/P	53 - 118
2400372	MGK-264	91.8	77.9	P/P	40 - 118
2400372	Mirex	49.0	56.4	P/P	26 - 92.0
2400372	Oxychlordane	59.4	63.1	P/P	44 - 99.0
2400372	Permethrin	81.0	66.1	P/P	33 - 182
2400372	Phenothrin	70.3	53.8	P/P	10 - 129
2400372	Piperonyl Butoxide	98.6	89.4	P/P	10 - 211
2400372	Prallethrin	59.0	63.9	P/P	24 - 113
2400372	Tau-Fluvalinate	87.4	66.1	P/P	14 - 149
2400372	Tetramethrin	76.9	66.2	P/P	17 - 151
2400372	Trans-Nonachlor	57.5	62.9	P/P	42 - 102
2400372	Triclosan Methyl	63.9	72.4	P/P	48 - 108
2400372	Trifluralin	70.3	70.0	P/P	47 - 96.0

Reference Method: EPA 8270E

Batch ID: P428618

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400840	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	110	78.7	P/P	26 - 165
2400840	Acetochlor	87.1	89.6	P/P	67 - 124
2400840	Alachlor	97.7	105	P/P	60 - 120
2400840	Ametryn	115	112	P/P	54 - 216
2400840	Atrazine Desethyl	87.7	79.3	P/P	15 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P428618

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400840	Avobenzone	136	128	P/P	37 - 178
2400840	Azinphos Methyl	116	119	P/P	40 - 292
2400840	Azoxystrobin	101	138	P/P	35 - 220
2400840	Bromacil	111	122	P/P	45 - 127
2400840	Butylate	58.0	50.0	P/P	20 - 83.0
2400840	Caffeine	132	863	P/F	10 - 194
2400840	Carbophenothion	113	104	P/P	57 - 127
2400840	Carfentrazone Ethyl	127	115	P/P	51 - 141
2400840	Chlorpyrifos Ethyl	75.3	72.9	P/P	52 - 120
2400840	Chlorpyrifos Methyl	101	102	P/P	63 - 119
2400840	Coumaphos	150	129	P/P	10 - 228
2400840	Cyanazine	132	128	P/P	59 - 241
2400840	Cyprodinil	104	107	P/P	47 - 146
2400840	Dechlorane 602	87.7	39.8	P/F	50 - 150
2400840	Dechlorane 603	120	95.3	P/P	50 - 150
2400840	Dechlorane Plus	69.9	61.0	P/P	50 - 150
2400840	Demeton	105	103	P/P	40 - 136
2400840	Diazinon	123	115	P/P	69 - 132
2400840	Difenoconazole	131	93.2	P/P	57 - 258
2400840	Dimethenamid	120	104	F/P	54 - 110
2400840	Dimethomorph	136	139	P/P	28 - 210
2400840	Disulfoton	115	113	P/P	43 - 133
2400840	Dithiopyr	98.5	85.6	P/P	39 - 116
2400840	EPTC	54.5	45.4	P/P	20 - 78.0
2400840	Ethion	114	98.0	P/P	17 - 119
2400840	Ethoprop	92.7	101	P/P	66 - 120
2400840	Etridiazole	71.7	61.4	P/P	28 - 96.0
2400840	Fenamiphos	96.3	103	P/P	41 - 126
2400840	Fenbuconazole	83.8	81.3	P/P	42 - 169
2400840	Fluazifop-P-butyl	63.3	67.6	P/P	53 - 131
2400840	Fludioxonil	74.7	68.4	P/P	56 - 127
2400840	Flumioxazin	202	153	P/P	19 - 300
2400840	Flutolanil	103	106	P/P	41 - 127
2400840	Fluxapyroxad	114	85.2	P/P	42 - 172
2400840	Fonofos	108	75.4	P/P	59 - 113
2400840	Hexabromobenzene	96.0	86.8	P/P	50 - 150
2400840	Hexazinone	117	96.6	P/P	66 - 122
2400840	Imazalil	140	139	P/P	21 - 283
2400840	Iprodione	105	91.9	P/P	43 - 150
2400840	Loratadine	166	148	P/P	23 - 201
2400840	Malathion	115	96.8	P/P	58 - 136
2400840	Metalaxyl	90.4	85.7	P/P	55 - 120
2400840	Metolachlor	97.5	106	P/P	57 - 121
2400840	Metribuzin	99.1	106	P/P	58 - 294
2400840	Mevinphos	95.6	96.1	P/P	50 - 126
2400840	Molinate	57.5	57.0	P/P	42 - 93.0
2400840	Myclobutanil	115	101	P/P	55 - 125
2400840	Naled	50.6	49.6	P/P	18 - 200
2400840	Napropamide	91.1	70.9	P/P	39 - 110
2400840	Norflurazon	116	99.6	P/P	48 - 128
2400840	Octinoxate	82.3	80.2	P/P	21 - 159
2400840	Oxadiazon	87.9	81.4	P/P	43 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428618

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400840	Oxybenzone	82.2	78.8	P/P	41 - 142
2400840	Oxyfluorfen	110	103	P/P	64 - 153
2400840	Parathion Ethyl	103	107	P/P	69 - 114
2400840	Parathion Methyl	116	118	P/P	79 - 139
2400840	PBB-153	117	95.3	P/P	50 - 150
2400840	PBDE-47	87.4	53.9	P/P	27 - 144
2400840	PBDE-99	94.5	52.8	P/P	18 - 150
2400840	Pendimethalin	119	89.6	P/P	50 - 139
2400840	Pentabromotoluene	83.5	76.4	P/P	50 - 150
2400840	Phorate	142	149	P/P	54 - 161
2400840	Prodiamine	81.4	70.6	P/P	30 - 161
2400840	Prometon	111	103	P/P	45 - 134
2400840	Prometryn	128	129	P/P	45 - 137
2400840	Pronamide	137	134	F/F	65 - 133
2400840	Propanil	119	116	P/P	49 - 142
2400840	Propargite	101	86.0	P/P	10 - 203
2400840	Propiconazole	107	111	P/P	38 - 146
2400840	Pyraflufen Ethyl	58.6	63.5	P/P	34 - 153
2400840	Pyridaben	118	122	P/P	12 - 192
2400840	Pyriproxyfen	124	103	P/P	33 - 180
2400840	Stiropfos	105	60.7	P/P	10 - 128
2400840	Sulfentrazone	119	103	P/P	53 - 186
2400840	Tebuconazole	120	43.7	P/P	10 - 133
2400840	Terbufos	134	137	P/P	65 - 139
2400840	Terbuthylazine	101	95.4	P/P	66 - 117
2400840	Tetradecachloro-m-terphenyl	161	144	P/P	70 - 200
2400840	Thiobencarb	101	111	P/P	51 - 119
2400840	Tri-o-cresyl Phosphate	91.0	80.1	P/P	31 - 144
2400840	Triadimefon	95.8	102	P/P	48 - 119
2400840	Tris(2-chloroethyl) phosphate (TCEP)	95.6	83.2	P/P	70 - 180

Reference Method: EPA 8276

Batch ID: P428516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400278	Chlordane	87.4	87.6	P/P	53 - 126
2400278	Toxaphene	111	111	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P428314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400159	3-Hydroxycarbofuran	69.2	69.5	P/P	40 - 150
2400159	Aldicarb	44.7	44.1	P/P	30 - 150
2400159	Aldicarb Sulfone	73.8	72.2	P/P	40 - 150
2400159	Aldicarb Sulfoxide	32.3	32.4	F/F	40 - 150
2400159	Carbaryl	71.3	67.3	P/P	40 - 150
2400159	Carbofuran	51.1	50.8	P/P	40 - 150
2400159	Methiocarb	71.6	64.9	P/P	40 - 150
2400159	Methomyl	54.3	53.7	P/P	40 - 150
2400159	Oxamyl	62.7	71.9	P/P	40 - 150
2400159	Propoxur	47.6	45.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P428433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399997	2,4-D	89.5	92.4	P/P	40 - 150
2399997	2,4,5-T	103	108	P/P	40 - 150
2399997	Acetaminophen	94.4	95.1	P/P	30 - 150
2399997	Acetamiprid	49.8	44.5	P/P	40 - 150
2399997	Afidopyropen	72.9	79.0	P/P	30 - 150
2399997	Benzovindiflupyr	89.0	82.6	P/P	40 - 150
2399997	Carbamazepine	57.5	59.8	P/P	40 - 150
2399997	Clothianidin	73.2	74.9	P/P	40 - 150
2399997	Dinotefuran	49.4	49.6	P/P	40 - 150
2399997	Diuron	71.7	71.2	P/P	40 - 150
2399997	Fenuron	38.4	40.6	F/P	40 - 150
2399997	Fluridone	69.0	57.7	P/P	40 - 150
2399997	Hydrocodone	46.2	44.4	P/P	40 - 150
2399997	Ibuprofen	61.7	55.7	P/P	40 - 150
2399997	Imazapyr	71.1	68.9	P/P	40 - 150
2399997	Imidacloprid	99.4	102	P/P	40 - 150
2399997	Linuron	74.8	68.0	P/P	40 - 150
2399997	Mandestrobin	89.1	83.9	P/P	40 - 150
2399997	MCCP	104	121	P/P	40 - 150
2399997	Naproxen	66.7	59.6	P/P	40 - 150
2399997	Primidone	69.6	78.0	P/P	40 - 150
2399997	Pyraclostrobin	80.2	77.9	P/P	40 - 150
2399997	Silvex	114	106	P/P	40 - 150
2399997	Thiamethoxam	53.9	58.6	P/P	40 - 150
2399997	Tolfenpyrad	49.2	55.9	P/P	30 - 150
2399997	Triclopyr	123	117	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400440	Acesulfame K	88.9	89.6	P/P	40 - 150
2400440	AMPA	102	99.5	P/P	40 - 150
2400440	Endothall	94.4	97.7	P/P	40 - 150
2400440	Glufosinate	82.3	87.4	P/P	40 - 150
2400440	Glyphosate	96.7	91.3	P/P	40 - 150
2400440	Sucralose	95.2	110	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400453	2,4-D	118	119	P/P	40 - 150
2400453	2,4,5-T	122	94.2	P/P	40 - 150
2400453	Acetaminophen	80.6	74.3	P/P	30 - 150
2400453	Acetamiprid	95.4	88.4	P/P	40 - 150
2400453	Afidopyropen	87.3	78.5	P/P	30 - 150
2400453	Bentazon	60.9	57.8	P/P	30 - 150
2400453	Benzovindiflupyr	85.6	77.9	P/P	40 - 150
2400453	Carbamazepine	80.0	74.8	P/P	40 - 150
2400453	Clothianidin	98.7	92.9	P/P	40 - 150
2400453	Dinotefuran	79.9	73.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P428534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400453	Diuron	93.9	89.9	P/P	40 - 150
2400453	Fenuron	66.8	66.0	P/P	40 - 150
2400453	Fluridone	70.9	62.6	P/P	40 - 150
2400453	Hydrocodone	72.0	70.1	P/P	40 - 150
2400453	Ibuprofen	75.2	63.3	P/P	40 - 150
2400453	Imazapyr	100	93.3	P/P	40 - 150
2400453	Imidacloprid	131	121	P/P	40 - 150
2400453	Linuron	82.9	77.7	P/P	40 - 150
2400453	Mandestrobin	90.7	87.0	P/P	40 - 150
2400453	MCPP	113	112	P/P	40 - 150
2400453	Naproxen	60.2	70.2	P/P	40 - 150
2400453	Primidone	95.8	94.9	P/P	40 - 150
2400453	Pyraclostrobin	83.3	78.1	P/P	40 - 150
2400453	Silvex	109	105	P/P	40 - 150
2400453	Thiamethoxam	95.4	92.9	P/P	40 - 150
2400453	Tolfenpyrad	43.1	41.6	P/P	30 - 150
2400453	Triclopyr	112	113	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P428931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400492	Fluoride	100	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P428701

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400426	Organic Carbon	94.5	95.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P428528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400353	Color (true)	0.323	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400353	Turbidity	7.18	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428892

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400329	Chloride	0.890	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428790

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399914	Ammonia-N	0.150	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401122	Ammonia-N	1.89	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400426	Kjeldahl Nitrogen	3.60	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400411	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400428	Total-P	0.873	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P428516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400278	PCB-1016	15.9	Spike	P	0 - 32
2400278	PCB-1260	6.24	Spike	P	0 - 31
2400372	Aldrin	1.69	Spike	P	0 - 41
2400372	Alpha-BHC	3.91	Spike	P	0 - 25
2400372	Alpha-Chlordane	0.882	Spike	P	0 - 33
2400372	Beta-BHC	21.6	Spike	P	0 - 36
2400372	Beta-Cyfluthrin	22.2	Spike	P	0 - 42
2400372	Bifenthrin	5.29	Spike	P	0 - 53
2400372	Chlorothalonil	38.1	Spike	P	0 - 71
2400372	Cis-Nonachlor	13.3	Spike	P	0 - 29
2400372	Cypermethrin	19.2	Spike	P	0 - 40
2400372	Dacthal	8.22	Spike	P	0 - 26
2400372	DDD-p,p'	10.3	Spike	P	0 - 39
2400372	DDE-p,p'	12.1	Spike	P	0 - 33
2400372	DDT-p,p'	2.94	Spike	P	0 - 40
2400372	Delta-BHC	23.3	Spike	P	0 - 37
2400372	Deltamethrin	28.0	Spike	P	0 - 100
2400372	Dichlobenil	18.7	Spike	P	0 - 40
2400372	Dicofol	2.57	Spike	P	0 - 31
2400372	Dieldrin	10.9	Spike	P	0 - 27
2400372	Endosulfan I	13.1	Spike	P	0 - 23
2400372	Endosulfan II	11.6	Spike	P	0 - 28
2400372	Endosulfan Sulfate	7.11	Spike	P	0 - 38
2400372	Endrin	12.8	Spike	P	0 - 63
2400372	Endrin Aldehyde	10.4	Spike	P	0 - 60
2400372	Endrin Ketone	3.64	Spike	P	0 - 37
2400372	Esfenvalerate	27.3	Spike	P	0 - 52
2400372	Ethalfuralin	1.73	Spike	P	0 - 23
2400372	Fenpropathrin	14.4	Spike	P	0 - 32
2400372	Gamma-BHC	25.5	Spike	F	0 - 17
2400372	Gamma-Chlordane	9.71	Spike	P	0 - 40
2400372	Heptachlor	0.711	Spike	P	0 - 29
2400372	Heptachlor Epoxide	6.21	Spike	P	0 - 25
2400372	Hexachlorobenzene	8.70	Spike	P	0 - 36
2400372	Kepone	27.3	Spike	P	0 - 93
2400372	Lambda-Cyhalothrin	21.2	Spike	P	0 - 55
2400372	Methoprene	1.08	Spike	P	0 - 53
2400372	Methoxychlor	9.54	Spike	P	0 - 29
2400372	MGK-264	16.3	Spike	P	0 - 35
2400372	Mirex	14.0	Spike	P	0 - 46
2400372	Oxychlordane	5.97	Spike	P	0 - 29
2400372	Permethrin	20.3	Spike	P	0 - 44
2400372	Phenothrin	26.7	Spike	P	0 - 56
2400372	Piperonyl Butoxide	9.78	Spike	P	0 - 100
2400372	Prallethrin	7.98	Spike	P	0 - 42
2400372	Tau-Fluvalinate	27.8	Spike	P	0 - 54
2400372	Tetramethrin	14.9	Spike	P	0 - 51
2400372	Trans-Nonachlor	7.14	Spike	P	0 - 37
2400372	Triclosan Methyl	12.5	Spike	P	0 - 31
2400372	Trifluralin	0.317	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P428618

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400840	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	33.0	Spike	P	0 - 37
2400840	Acetochlor	2.78	Spike	P	0 - 28
2400840	Alachlor	7.55	Spike	P	0 - 30
2400840	Ametryn	2.88	Spike	P	0 - 32
2400840	Atrazine	3.09	Spike	P	0 - 41
2400840	Atrazine Desethyl	8.09	Spike	P	0 - 36
2400840	Avobenzone	6.26	Spike	P	0 - 36
2400840	Azinphos Methyl	2.08	Spike	P	0 - 75
2400840	Azoxystrobin	25.7	Spike	P	0 - 39
2400840	Bromacil	8.43	Spike	P	0 - 33
2400840	Butylate	14.8	Spike	P	0 - 44
2400840	Caffeine	128	Spike	F	0 - 74
2400840	Carbophenothion	8.14	Spike	P	0 - 25
2400840	Carfentrazone Ethyl	9.59	Spike	P	0 - 27
2400840	Chlorfenapyr	9.29	Spike	P	0 - 24
2400840	Chlorpyrifos Ethyl	3.26	Spike	P	0 - 26
2400840	Chlorpyrifos Methyl	0.926	Spike	P	0 - 26
2400840	Coumaphos	14.8	Spike	P	0 - 28
2400840	Cyanazine	2.44	Spike	P	0 - 48
2400840	Cyprodinil	2.75	Spike	P	0 - 29
2400840	Dechlorane 602	75.0	Spike	F	0 - 30
2400840	Dechlorane 603	22.7	Spike	P	0 - 30
2400840	Dechlorane Plus	13.6	Spike	P	0 - 30
2400840	Demeton	1.67	Spike	P	0 - 33
2400840	Diazinon	7.13	Spike	P	0 - 29
2400840	Difenoconazole	33.5	Spike	P	0 - 34
2400840	Dimethenamid	13.9	Spike	P	0 - 39
2400840	Dimethomorph	1.97	Spike	P	0 - 51
2400840	Disulfoton	1.67	Spike	P	0 - 30
2400840	Dithiopyr	14.0	Spike	P	0 - 26
2400840	EPTC	18.3	Spike	P	0 - 43
2400840	Ethion	15.3	Spike	P	0 - 79
2400840	Ethoprop	8.46	Spike	P	0 - 29
2400840	Etridiazole	15.5	Spike	P	0 - 33
2400840	Fenamiphos	7.21	Spike	P	0 - 40
2400840	Fenbuconazole	3.11	Spike	P	0 - 74
2400840	Fipronil	12.0	Spike	P	0 - 29
2400840	Fipronil Desulfinyl	2.89	Spike	P	0 - 32
2400840	Fipronil Sulfide	8.23	Spike	P	0 - 30
2400840	Fipronil Sulfone	14.8	Spike	P	0 - 33
2400840	Fluazifop-P-butyl	6.59	Spike	P	0 - 38
2400840	Fludioxonil	4.26	Spike	P	0 - 29
2400840	Flumioxazin	27.5	Spike	P	0 - 51
2400840	Flutolanil	2.67	Spike	P	0 - 25
2400840	Fluxapyroxad	28.5	Spike	P	0 - 45
2400840	Fonofos	35.5	Spike	F	0 - 27
2400840	Hexabromobenzene	9.98	Spike	P	0 - 30
2400840	Hexazinone	14.7	Spike	P	0 - 30
2400840	Imazalil	0.981	Spike	P	0 - 100
2400840	Iprodione	13.3	Spike	P	0 - 33
2400840	Loratadine	8.27	Spike	P	0 - 56

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P428618

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400840	Malathion	16.8	Spike	P	0 - 37
2400840	Metalaxyl	5.37	Spike	P	0 - 40
2400840	Metolachlor	8.20	Spike	P	0 - 29
2400840	Metribuzin	6.46	Spike	P	0 - 45
2400840	Mevinphos	0.509	Spike	P	0 - 29
2400840	Molinate	0.855	Spike	P	0 - 33
2400840	Myclobutanil	12.8	Spike	P	0 - 26
2400840	Naled	1.88	Spike	P	0 - 37
2400840	Napropamide	24.9	Spike	P	0 - 44
2400840	Norflurazon	15.6	Spike	P	0 - 30
2400840	Octinoxate	2.28	Spike	P	0 - 45
2400840	Oxadiazon	7.66	Spike	P	0 - 28
2400840	Oxybenzone	4.24	Spike	P	0 - 46
2400840	Oxyfluorfen	6.64	Spike	P	0 - 28
2400840	Parathion Ethyl	3.16	Spike	P	0 - 31
2400840	Parathion Methyl	1.57	Spike	P	0 - 29
2400840	PBB-153	20.5	Spike	P	0 - 30
2400840	PBDE-47	47.3	Spike	F	0 - 36
2400840	PBDE-99	56.5	Spike	F	0 - 40
2400840	Pendimethalin	28.0	Spike	P	0 - 33
2400840	Pentabromotoluene	8.88	Spike	P	0 - 30
2400840	Phenytol	23.5	Spike	P	0 - 100
2400840	Phorate	4.90	Spike	P	0 - 36
2400840	Prodiamine	14.2	Spike	P	0 - 71
2400840	Prometon	7.92	Spike	P	0 - 36
2400840	Prometryn	0.903	Spike	P	0 - 28
2400840	Pronamide	2.64	Spike	P	0 - 24
2400840	Propanil	2.23	Spike	P	0 - 28
2400840	Propargite	15.6	Spike	P	0 - 43
2400840	Propiconazole	3.92	Spike	P	0 - 33
2400840	Pyraflufen Ethyl	7.88	Spike	P	0 - 29
2400840	Pyridaben	3.72	Spike	P	0 - 30
2400840	Pyriproxyfen	18.9	Spike	P	0 - 79
2400840	Simazine	2.44	Spike	P	0 - 29
2400840	Stirophos	53.9	Spike	P	0 - 61
2400840	Sulfentrazone	8.25	Spike	P	0 - 33
2400840	Tebuconazole	56.8	Spike	P	0 - 69
2400840	Terbufos	2.37	Spike	P	0 - 29
2400840	Terbuthylazine	5.50	Spike	P	0 - 32
2400840	Tetradecachloro-m-terphenyl	11.0	Spike	P	0 - 30
2400840	Thiobencarb	10.1	Spike	P	0 - 26
2400840	Tri-o-cresyl Phosphate	12.8	Spike	P	0 - 33
2400840	Triadimefon	6.40	Spike	P	0 - 28
2400840	Tris(1-chloro-2-propyl) phosphate (TCPP)	4.57	Spike	P	0 - 30
2400840	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	12.9	Spike	P	0 - 30
2400840	Tris(2-chloroethyl) phosphate (TCEP)	14.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P428516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400278	Chlordane	0.232	Spike	P	0 - 25
2400278	Toxaphene	0.723	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P428314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400159	3-Hydroxycarbofuran	0.327	Spike	P	0 - 30
2400159	Aldicarb	1.17	Spike	P	0 - 30
2400159	Aldicarb Sulfone	2.22	Spike	P	0 - 30
2400159	Aldicarb Sulfoxide	0.233	Spike	P	0 - 30
2400159	Carbaryl	5.70	Spike	P	0 - 30
2400159	Carbofuran	0.580	Spike	P	0 - 30
2400159	Methiocarb	9.83	Spike	P	0 - 30
2400159	Methomyl	1.01	Spike	P	0 - 30
2400159	Oxamyl	13.7	Spike	P	0 - 30
2400159	Propoxur	3.67	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P428433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399997	2,4-D	3.19	Spike	P	0 - 30
2399997	2,4,5-T	4.27	Spike	P	0 - 30
2399997	Acetaminophen	0.756	Spike	P	0 - 30
2399997	Acetamiprid	11.2	Spike	P	0 - 30
2399997	Afidopyropen	8.09	Spike	P	0 - 30
2399997	Bentazon	15.7	Spike	P	0 - 30
2399997	Benzovindiflupyr	7.52	Spike	P	0 - 30
2399997	Carbamazepine	3.77	Spike	P	0 - 30
2399997	Clothianidin	2.22	Spike	P	0 - 30
2399997	Dinotefuran	0.350	Spike	P	0 - 30
2399997	Diuron	0.710	Spike	P	0 - 30
2399997	Fenuron	5.54	Spike	P	0 - 30
2399997	Fluridone	17.7	Spike	P	0 - 30
2399997	Hydrocodone	4.08	Spike	P	0 - 30
2399997	Ibuprofen	10.2	Spike	P	0 - 30
2399997	Imazapyr	1.33	Spike	P	0 - 30
2399997	Imidacloprid	2.33	Spike	P	0 - 30
2399997	Linuron	9.50	Spike	P	0 - 30
2399997	Mandestrobin	5.91	Spike	P	0 - 30
2399997	MCPP	15.0	Spike	P	0 - 30
2399997	Naproxen	11.3	Spike	P	0 - 30
2399997	Primidone	11.3	Spike	P	0 - 30
2399997	Pyraclostrobin	2.87	Spike	P	0 - 30
2399997	Silvex	6.71	Spike	P	0 - 30
2399997	Thiamethoxam	8.31	Spike	P	0 - 30
2399997	Tolfenpyrad	12.8	Spike	P	0 - 30
2399997	Triclopyr	5.12	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P428489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400440	Acesulfame K	0.723	Spike	P	0 - 30
2400440	AMPA	2.69	Spike	P	0 - 30
2400440	Endothall	3.42	Spike	P	0 - 30
2400440	Glufosinate	6.03	Spike	P	0 - 30
2400440	Glyphosate	4.49	Spike	P	0 - 30
2400440	Sucralose	12.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P428534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400453	2,4-D	0.272	Spike	P	0 - 30
2400453	2,4,5-T	25.8	Spike	P	0 - 30
2400453	Acetaminophen	8.05	Spike	P	0 - 30
2400453	Acetamiprid	7.65	Spike	P	0 - 30
2400453	Afidopyropen	10.6	Spike	P	0 - 30
2400453	Bentazon	5.21	Spike	P	0 - 30
2400453	Benzovindiflupyr	9.37	Spike	P	0 - 30
2400453	Carbamazepine	6.66	Spike	P	0 - 30
2400453	Clothianidin	6.00	Spike	P	0 - 30
2400453	Dinotefuran	8.75	Spike	P	0 - 30
2400453	Diuron	4.41	Spike	P	0 - 30
2400453	Fenuron	1.20	Spike	P	0 - 30
2400453	Fluridone	12.4	Spike	P	0 - 30
2400453	Hydrocodone	2.71	Spike	P	0 - 30
2400453	Ibuprofen	17.2	Spike	P	0 - 30
2400453	Imazapyr	7.43	Spike	P	0 - 30
2400453	Imidacloprid	8.02	Spike	P	0 - 30
2400453	Linuron	6.46	Spike	P	0 - 30
2400453	Mandestrobin	4.17	Spike	P	0 - 30
2400453	MCPP	0.567	Spike	P	0 - 30
2400453	Naproxen	15.3	Spike	P	0 - 30
2400453	Primidone	0.939	Spike	P	0 - 30
2400453	Pyraclostrobin	6.46	Spike	P	0 - 30
2400453	Silvex	4.09	Spike	P	0 - 30
2400453	Thiamethoxam	2.67	Spike	P	0 - 30
2400453	Tolfenpyrad	3.59	Spike	P	0 - 30
2400453	Triclopyr	0.274	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P428657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400492	Total Alkalinity	2.30	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P429116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400353	TDS	3.08	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P428931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400492	Fluoride	0.503	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P428701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400426	Organic Carbon	0.836	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2400439
Field Sample ID: 20030739

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	85.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	64.1	P	30 - 160
EPA 8321B	Diuron-d6	63.0	P	30 - 160
EPA 8321B	Endothall-d6	98.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	56.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.6	P	30 - 160
EPA 8321B	Primidone-d5	73.7	P	30 - 160
EPA 8321B	Sucralose-d6	86.1	P	30 - 160

Lab Sample ID: 2400440
Field Sample ID: G2NE1208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	73.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	76.5	P	30 - 160
EPA 8321B	Diuron-d6	72.2	P	30 - 160
EPA 8321B	Endothall-d6	95.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.6	P	30 - 160
EPA 8321B	Primidone-d5	84.6	P	30 - 160
EPA 8321B	Sucralose-d6	89.2	P	30 - 160

Lab Sample ID: 2400441
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	63.8	P	30 - 160

Lab Sample ID: 2400442
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	131	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.9	P	30 - 160
EPA 8321B	Diuron-d6	80.1	P	30 - 160
EPA 8321B	Endothall-d6	88.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	66.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.3	P	30 - 160
EPA 8321B	Primidone-d5	106	P	30 - 160
EPA 8321B	Sucralose-d6	85.8	P	30 - 160

Lab Sample ID: 2400443
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	71.6	P	29 - 130
EPA 8270E	Decachlorobiphenyl	92.9	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	76.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	79.3	P	30 - 97.0

Quality Assurance Report Surrogates

Lab Sample ID: 2400443
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	76.5	P	30 - 101
EPA 8276	PCNB	89.0	P	48 - 121

Lab Sample ID: 2400444
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	76.4	P	20 - 200
EPA 8270E	Simazine-d10	90.3	P	62 - 142
EPA 8270E	Terbufos-d10	80.4	P	58 - 132
EPA 8270E	Terphenyl-d14	72.3	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A118589

Included Lab Sample IDs: 2400423, 2400425, 2400427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.5	103	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118591

Included Lab Sample IDs: 2400423, 2400425, 2400427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A118606

Included Lab Sample IDs: 2400439, 2400440, 2400442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	97.3	99.5	P/P	60 - 160
Acesulfame K	99.0	97.3	P/P	60 - 160
Sucralose	91.7	105	P/P	60 - 160
Sucralose	98.6	91.7	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A118625

Included Lab Sample IDs: 2400439, 2400440, 2400442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	113	113	P/P	60 - 160
AMPA	113	114	P/P	60 - 160
Endothall	95.7	98.2	P/P	60 - 160
Endothall	98.2	95.9	P/P	60 - 160
Glufosinate	105	100	P/P	60 - 160
Glufosinate	98.4	105	P/P	60 - 160
Glyphosate	113	119	P/P	60 - 160
Glyphosate	119	108	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118641

Included Lab Sample IDs: 2400423, 2400425, 2400427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.2	98.2	P/P	90 - 110
Sulfate	98.3	99.7	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A118645

Included Lab Sample IDs: 2400423, 2400425, 2400427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.1	95.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118655

Included Lab Sample IDs: 2400424, 2400426, 2400428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	99.3	P/P	90 - 110
Kjeldahl Nitrogen	99.3	98.7	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A118661

Included Lab Sample IDs: 2400424, 2400426, 2400428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.5	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118675

Included Lab Sample IDs: 2400424, 2400426, 2400428

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118690

Included Lab Sample IDs: 2400426, 2400428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.7	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A118697

Included Lab Sample IDs: 2400443

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	91.9		P	80 - 120
Alpha-BHC	98.0		P	80 - 120
Alpha-Chlordane	98.0		P	80 - 120
Beta-BHC	97.4		P	80 - 120
Beta-Cyfluthrin	94.3		P	80 - 120
Bifenthrin	92.0		P	80 - 120
Chlorothalonil	91.7		P	80 - 120
Cis-Nonachlor	95.2		P	80 - 120
Cypermethrin	93.0		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	99.0		P	80 - 120
DDE-p,p'	96.7		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	94.3		P	80 - 120
Deltamethrin	87.5		P	80 - 120
Dichlobenil	98.7		P	80 - 120
Dicofol	98.7		P	80 - 120
Dieldrin	95.7		P	80 - 120
Endosulfan I	93.6		P	80 - 120
Endosulfan II	92.0		P	80 - 120
Endosulfan Sulfate	96.6		P	80 - 120
Endrin	97.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118697
Included Lab Sample IDs: 2400443

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Aldehyde	97.2		P	80 - 120
Endrin Ketone	117		P	80 - 120
Esfenvalerate	91.5		P	80 - 120
Ethalfuralin	99.2		P	80 - 120
Fenpropathrin	94.5		P	80 - 120
Gamma-BHC	92.1		P	80 - 120
Gamma-Chlordane	96.1		P	80 - 120
Heptachlor	93.0		P	80 - 120
Heptachlor Epoxide	99.3		P	80 - 120
Hexachlorobenzene	99.9		P	80 - 120
Kepone	77.8*		F	80 - 120
Lambda-Cyhalothrin	95.7		P	80 - 120
Methoprene	94.2		P	80 - 120
Methoxychlor	94.6		P	80 - 120
MGK-264	98.5		P	80 - 120
Mirex	94.4		P	80 - 120
Oxychlordane	95.2		P	80 - 120
Permethrin	95.8		P	80 - 120
Phenothrin	95.6		P	80 - 120
Piperonyl Butoxide	96.3		P	80 - 120
Prallethrin	93.5		P	80 - 120
Tau-Fluvalinate	94.4		P	80 - 120
Tetramethrin	93.8		P	80 - 120
Trans-Nonachlor	95.4		P	80 - 120
Triclosan Methyl	96.0		P	80 - 120
Trifluralin	97.7		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A118753
Included Lab Sample IDs: 2400423, 2400425, 2400427

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A118754
Included Lab Sample IDs: 2400424, 2400426, 2400428

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A118767
Included Lab Sample IDs: 2400424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	99.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A118768

Included Lab Sample IDs: 2400439, 2400440, 2400442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.4	90.5	P/P	50 - 150
2,4-D	92.0	89.4	P/P	50 - 150
2,4,5-T	79.4	96.9	P/P	50 - 150
2,4,5-T	83.4	79.4	P/P	50 - 150
3-Hydroxycarbofuran	96.3	96.1	P/P	60 - 150
Acetaminophen	85.2	89.7	P/P	60 - 160
Acetaminophen	90.7	85.2	P/P	60 - 160
Acetamiprid	115	115	P/P	50 - 150
Acetamiprid	115	114	P/P	50 - 150
Afidopyropen	109	113	P/P	50 - 150
Afidopyropen	87.6	109	P/P	50 - 150
Aldicarb	85.7	106	P/P	60 - 150
Aldicarb Sulfone	97.6	94.1	P/P	50 - 150
Aldicarb Sulfoxide	104	88.9	P/P	50 - 150
Bentazon	101	96.7	P/P	50 - 160
Bentazon	102	101	P/P	50 - 160
Benzovindiflupyr	103	105	P/P	50 - 150
Benzovindiflupyr	105	108	P/P	50 - 150
Carbamazepine	105	96.7	P/P	60 - 150
Carbamazepine	98.5	105	P/P	60 - 150
Carbaryl	120	114	P/P	60 - 150
Carbofuran	118	112	P/P	50 - 150
Clothianidin	101	100	P/P	60 - 150
Clothianidin	94.4	101	P/P	60 - 150
Dinotefuran	97.3	99.4	P/P	50 - 150
Dinotefuran	98.2	97.3	P/P	50 - 150
Diuron	121	119	P/P	60 - 160
Diuron	123	121	P/P	60 - 160
Fenuron	101	99.3	P/P	60 - 150
Fenuron	99.3	97.2	P/P	60 - 150
Fluridone	90.5	91.6	P/P	60 - 160
Fluridone	91.6	89.6	P/P	60 - 160
Hydrocodone	105	113	P/P	60 - 150
Hydrocodone	107	105	P/P	60 - 150
Ibuprofen	65.8	89.8	P/P	50 - 160
Ibuprofen	71.8	65.8	P/P	50 - 160
Imazapyr	106	107	P/P	50 - 150
Imazapyr	107	112	P/P	50 - 150
Imidacloprid	93.1	101	P/P	60 - 150
Imidacloprid	96.8	93.1	P/P	60 - 150
Linuron	101	107	P/P	60 - 150
Linuron	87.4	101	P/P	60 - 150
Mandestrobin	103	106	P/P	50 - 150
Mandestrobin	106	109	P/P	50 - 150
MCPP	102	99.5	P/P	50 - 150
MCPP	99.5	99.7	P/P	50 - 150
Methiocarb	101	105	P/P	50 - 150
Methomyl	103	101	P/P	50 - 150
Naproxen	106	87.4	P/P	50 - 160
Naproxen	64.4	106	P/P	50 - 160
Oxamyl	93.4	96.3	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A118768

Included Lab Sample IDs: 2400439, 2400440, 2400442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	101	103	P/P	60 - 150
Primidone	103	94.3	P/P	60 - 150
Propoxur	110	114	P/P	50 - 150
Pyraclostrobin	106	107	P/P	60 - 150
Pyraclostrobin	107	107	P/P	60 - 150
Silvex	106	108	P/P	50 - 150
Silvex	108	102	P/P	50 - 150
Thiamethoxam	105	107	P/P	50 - 150
Thiamethoxam	107	104	P/P	50 - 150
Tolfenpyrad	102	99.0	P/P	60 - 150
Tolfenpyrad	99.0	103	P/P	60 - 150
Triclopyr	85.4	98.6	P/P	50 - 150
Triclopyr	93.2	85.4	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A118775

Included Lab Sample IDs: 2400443

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.2		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 8270E

Run ID: A118787

Included Lab Sample IDs: 2400444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	93.4		P	80 - 120
Ametryn	96.0		P	80 - 120
Atrazine	105		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	88.3		P	80 - 120
Azoxystrobin	113		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	106		P	80 - 120
Caffeine	99.8		P	80 - 120
Carbophenothion	84.2		P	80 - 120
Carfentrazone Ethyl	86.3		P	80 - 120
Chlorfenapyr	98.0		P	80 - 120
Chlorpyrifos Ethyl	97.2		P	80 - 120
Chlorpyrifos Methyl	94.9		P	80 - 120
Coumaphos	89.0		P	80 - 120
Cyanazine	117		P	80 - 120
Cyprodinil	90.6		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	99.8		P	80 - 120
Difenoconazole	118		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	116		P	80 - 120
Disulfoton	96.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118787
Included Lab Sample IDs: 2400444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dithiopyr	101		P	80 - 120
EPTC	105		P	80 - 120
Ethion	92.8		P	80 - 120
Ethoprop	97.9		P	80 - 120
Etridiazole	107		P	80 - 120
Fenamiphos	105		P	80 - 120
Fenbuconazole	88.3		P	80 - 120
Fipronil	119		P	80 - 120
Fipronil Desulfinyl	86.5		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	108		P	80 - 120
Fluazifop-P-butyl	98.3		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	107		P	80 - 120
Flutolanil	98.4		P	80 - 120
Fluxapyroxad	83.6		P	80 - 120
Fonofos	91.8		P	80 - 120
Hexazinone	97.9		P	80 - 120
Imazalil	88.8		P	80 - 120
Iprodione	89.5		P	80 - 120
Loratadine	118		P	80 - 120
Malathion	96.6		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	98.3		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	109		P	80 - 120
Molinate	95.7		P	80 - 120
Myclobutanil	113		P	80 - 120
Naled	103		P	80 - 120
Napropamide	104		P	80 - 120
Norflurazon	98.3		P	80 - 120
Oxadiazon	95.3		P	80 - 120
Oxyfluorfen	108		P	80 - 120
Parathion Ethyl	116		P	80 - 120
Parathion Methyl	94.3		P	80 - 120
Pendimethalin	87.2		P	80 - 120
Phenytol	103		P	80 - 120
Phorate	101		P	80 - 120
Prodiamine	96.8		P	80 - 120
Prometon	97.0		P	80 - 120
Prometryn	97.9		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	95.1		P	80 - 120
Propargite	100		P	80 - 120
Propiconazole	88.6		P	80 - 120
Pyraflufen Ethyl	95.4		P	80 - 120
Pyridaben	93.1		P	80 - 120
Pyriproxyfen	96.7		P	80 - 120
Simazine	99.4		P	80 - 120
Stirophos	93.5		P	80 - 120
Sulfentrazone	87.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118787
Included Lab Sample IDs: 2400444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tebuconazole	88.6		P	80 - 120
Terbufos	94.9		P	80 - 120
Terbutylazine	96.0		P	80 - 120
Thiobencarb	103		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118844
Included Lab Sample IDs: 2400444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.6		P	80 - 120
Avobenzene	90.2		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	103		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	96.5		P	80 - 120
Octinoxate	91.2		P	80 - 120
Oxybenzone	88.5		P	80 - 120
PBB-153	96.5		P	80 - 120
PBDE-47	92.4		P	80 - 120
PBDE-99	96.0		P	80 - 120
Pentabromotoluene	99.9		P	80 - 120
Tetradecachloro-m-terphenyl	97.5		P	80 - 120
Tri-o-cresyl Phosphate	94.4		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.0		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	87.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118875
Included Lab Sample IDs: 2400443

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	101		P	80 - 120
PCB-1260	100		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	96.8				0.323	
EPA 180.1 Rev. 2.0	Turbidity	98.4				7.18	
EPA 300.0 Rev. 2.1	Chloride	101	98.0	99.7		0.890	
	Sulfate	102	98.5	99.5			
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	99.8	99.6			0.150
	Ammonia-N	99.0	98.6	96.6			1.89
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.2	101	106			3.60
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	101	101			0.0
EPA 365.1 Rev. 2.0	Total-P	99.6	100	101			0.873
EPA 8270E	2-Ethylhexyl	94.7	110	78.7			33.0
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	72.8	89.6	87.1			2.78
	Alachlor	106	105	97.7			7.55
	Aldrin	49.6	46.1	46.9			1.69
	Alpha-BHC	95.1	92.1	88.6			3.91
	Alpha-Chlordane	80.8	54.0	52.8			0.882
	Ametryn	107	112	115			2.88
	Atrazine	98.3					3.09
	Atrazine Desethyl	90.1	79.3	87.7			8.09
	Avobenzone	124	136	128			6.26
	Azinphos Methyl	116	119	116			2.08
	Azoxystrobin	104	138	101			25.7
	Beta-BHC	92.6	111	89.2			21.6
	Beta-Cyfluthrin	96.4	92.2	73.8			22.2
	Bifenthrin	67.9	56.2	59.3			5.29
	Bromacil	112	122	111			8.43
	Butylate	61.8	50.0	58.0			14.8
	Caffeine	93.1	132	863			128
	Carbophenothion	111	104	113			8.14
	Carfentrazone Ethyl	127	115	127			9.59
	Chlorfenapyr	65.0					9.29
	Chlorothalonil	70.3	93.7	63.8			38.1
	Chlorpyrifos Ethyl	82.6	72.9	75.3			3.26
	Chlorpyrifos Methyl	96.1	102	101			0.926
	Cis-Nonachlor	76.0	55.8	63.8			13.3
	Coumaphos	137	129	150			14.8
	Cyanazine	131	128	132			2.44
	Cypermethrin	92.4	84.3	69.5			19.2
	Cyprodinil	91.3	107	104			2.75
	Dacthal	95.7	95.6	88.0			8.22
	DDD-p,p'	71.9	52.8	58.5			10.3
	DDE-p,p'	77.1	59.8	67.4			12.1
	DDT-p,p'	81.2	68.8	66.8			2.94
	Dechlorane 602	74.9	87.7	39.8			75.0
	Dechlorane 603	99.2	120	95.3			22.7
	Dechlorane Plus	64.0	69.9	61.0			13.6
	Delta-BHC	90.1	110	86.9			23.3
	Deltamethrin	105	103	77.9			28.0
	Demeton	76.3	103	105			1.67
	Diazinon	118	115	123			7.13
	Dichlobenil	70.1	70.3	58.3			18.7
	Dicofol	82.9	73.0	71.2			2.57
	Dieldrin	79.0	64.3	71.6			10.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Difenoconazole	111	93.2	131		33.5
	Dimethenamid	108	104	120		13.9
	Dimethomorph	83.3	136	139		1.97
	Disulfoton	108	113	115		1.67
	Dithiopyr	107	85.6	98.5		14.0
	Endosulfan I	77.1	61.0	69.5		13.1
	Endosulfan II	81.7	65.0	73.0		11.6
	Endosulfan Sulfate	91.6	85.5	79.6		7.11
	Endrin	84.5	63.0	71.6		12.8
	Endrin Aldehyde	80.5	79.9	72.0		10.4
	Endrin Ketone	127	115	111		3.64
	EPTC	60.9	45.4	54.5		18.3
	Esfenvalerate	90.0	90.0	68.4		27.3
	Ethalfuralin	79.7	66.4	65.2		1.73
	Ethion	106	98.0	114		15.3
	Ethoprop	101	101	92.7		8.46
	Etridiazole	66.5	61.4	71.7		15.5
	Fenamiphos	77.7	103	96.3		7.21
	Fenbuconazole	79.5	81.3	83.8		3.11
	Fenpropathrin	86.2	76.3	66.0		14.4
	Fipronil	75.5				12.0
	Fipronil Desulfinyl	94.6				2.89
	Fipronil Sulfide	89.0				8.23
	Fipronil Sulfone	107				14.8
	Fluazifop-P-butyl	70.7	67.6	63.3		6.59
	Fludioxonil	83.7	68.4	74.7		4.26
	Flumioxazin	183	153	202		27.5
	Flutolanil	82.5	103	106		2.67
	Fluxapyroxad	103	85.2	114		28.5
	Fonofos	83.3	108	75.4		35.5
	Gamma-BHC	87.3	113	87.2		25.5
	Gamma-Chlordane	76.6	54.9	63.1		9.71
	Heptachlor	72.0	61.8	62.2		0.711
	Heptachlor Epoxide	84.7	69.1	63.3		6.21
	Hexabromobenzene	86.1	96.0	86.8		9.98
	Hexachlorobenzene	63.4	53.7	49.3		8.70
	Hexazinone	96.1	96.6	117		14.7
	Imazalil	77.2	139	140		0.981
	Iprodione	91.3	91.9	105		13.3
	Kepone	86.5	115	87.0		27.3
	Lambda-Cyhalothrin	80.2	83.2	67.3		21.2
	Loratadine	140	148	166		8.27
	Malathion	96.5	96.8	115		16.8
	Metalaxyl	107	85.7	90.4		5.37
	Methoprene	63.9	58.3	58.9		1.08
	Methoxychlor	93.2	86.0	78.2		9.54
	Metolachlor	90.5	106	97.5		8.20
	Metribuzin	109	106	99.1		6.46
	Mevinphos	88.7	96.1	95.6		0.509
	MGK-264	79.6	91.8	77.9		16.3
	Mirex	65.4	49.0	56.4		14.0
	Molinate	61.0	57.0	57.5		0.855
	Myclobutanil	110	101	115		12.8
	Naled	43.5	49.6	50.6		1.88

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Napropamide	79.9	70.9	91.1			24.9
	Norflurazon	104	99.6	116			15.6
	Octinoxate	110	82.3	80.2			2.28
	Oxadiazon	92.5	81.4	87.9			7.66
	Oxybenzone	68.8	82.2	78.8			4.24
	Oxychlordane	74.1	59.4	63.1			5.97
	Oxyfluorfen	96.8	103	110			6.64
	Parathion Ethyl	93.8	107	103			3.16
	Parathion Methyl	108	118	116			1.57
	PBB-153	100	117	95.3			20.5
	PBDE-47	78.4	87.4	53.9			47.3
	PBDE-99	80.3	94.5	52.8			56.5
	PCB-1016	81.3	84.8	99.4			15.9
	PCB-1260	75.0	77.8	82.8			6.24
	Pendimethalin	135	119	89.6			28.0
	Pentabromotoluene	72.0	83.5	76.4			8.88
	Permethrin	86.3	81.0	66.1			20.3
	Phenothrin	59.5	70.3	53.8			26.7
	Phenytoin	127					23.5
	Phorate	96.3	142	149			4.90
	Piperonyl Butoxide	93.9	98.6	89.4			9.78
	Prallethrin	68.1	59.0	63.9			7.98
	Prodiamine	68.8	70.6	81.4			14.2
	Prometon	102	103	111			7.92
	Prometryn	126	129	128			0.903
	Pronamide	114	137	134			2.64
	Propanil	122	116	119			2.23
	Propargite	108	86.0	101			15.6
	Propiconazole	70.3	111	107			3.92
	Pyraflufen Ethyl	57.3	63.5	58.6			7.88
	Pyridaben	80.5	118	122			3.72
	Pyriproxyfen	122	124	103			18.9
	Simazine	80.5					2.44
	Stirophos	97.3	105	60.7			53.9
	Sulfentrazone	104	119	103			8.25
	Tau-Fluvalinate	84.3	87.4	66.1			27.8
	Tebuconazole	90.6	120	43.7			56.8
	Terbufos	117	134	137			2.37
	Terbutylazine	82.8	101	95.4			5.50
	Tetradecachloro-m-terphenyl	139	161	144			11.0
	Tetramethrin	73.6	76.9	66.2			14.9
	Thiobencarb	110	101	111			10.1
	Trans-Nonachlor	77.5	57.5	62.9			7.14
	Tri-o-cresyl Phosphate	80.7	91.0	80.1			12.8
	Triadimefon	95.1	95.8	102			6.40
	Triclosan Methyl	79.7	63.9	72.4			12.5
	Trifluralin	82.6	70.3	70.0			0.317
	Tris(1-chloro-2-propyl) phosphate (TCPP)	43.4					4.57
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	69.3					12.9
	Tris(2-chloroethyl) phosphate (TCEP)	78.0	95.6	83.2			14.0
EPA 8276	Chlordane	82.6	87.4	87.6			0.232

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8276	Toxaphene	95.7	111	111		0.723
EPA 8321B	2,4-D	98.4	89.5	92.4		3.19
	2,4-D	112	118	119		0.272
	2,4,5-T	84.6	103	108		4.27
	2,4,5-T	110	122	94.2		25.8
	3-Hydroxycarbofuran	70.0	69.2	69.5		0.327
	Acesulfame K	99.5	88.9	89.6		0.723
	Acetaminophen	69.2	94.4	95.1		0.756
	Acetaminophen	77.1	80.6	74.3		8.05
	Acetamiprid	79.1	49.8	44.5		11.2
	Acetamiprid	84.5	95.4	88.4		7.65
	Afidopyropen	58.0	72.9	79.0		8.09
	Afidopyropen	73.7	87.3	78.5		10.6
	Aldicarb	62.7	44.7	44.1		1.17
	Aldicarb Sulfone	81.2	73.8	72.2		2.22
	Aldicarb Sulfoxide	98.4	32.3	32.4		0.233
	AMPA	121	102	99.5		2.69
	Bentazon	80.6				15.7
	Bentazon	77.1	60.9	57.8		5.21
	Benzovindiflupyr	81.4	89.0	82.6		7.52
	Benzovindiflupyr	86.9	85.6	77.9		9.37
	Carbamazepine	78.5	57.5	59.8		3.77
	Carbamazepine	85.2	80.0	74.8		6.66
	Carbaryl	86.4	71.3	67.3		5.70
	Carbofuran	76.3	51.1	50.8		0.580
	Clothianidin	82.7	73.2	74.9		2.22
	Clothianidin	88.7	98.7	92.9		6.00
	Dinotefuran	88.1	49.4	49.6		0.350
	Dinotefuran	88.1	79.9	73.2		8.75
	Diuron	99.6	71.7	71.2		0.710
	Diuron	109	93.9	89.9		4.41
	Endothall	94.0	94.4	97.7		3.42
	Fenuron	79.1	38.4	40.6		5.54
	Fenuron	88.3	66.8	66.0		1.20
	Fluridone	64.9	69.0	57.7		17.7
	Fluridone	82.5	70.9	62.6		12.4
	Glufosinate	103	82.3	87.4		6.03
	Glyphosate	126	96.7	91.3		4.49
	Hydrocodone	83.7	46.2	44.4		4.08
	Hydrocodone	90.7	72.0	70.1		2.71
	Ibuprofen	59.7	61.7	55.7		10.2
	Ibuprofen	67.6	75.2	63.3		17.2
	Imazapyr	87.2	71.1	68.9		1.33
	Imazapyr	99.4	100	93.3		7.43
	Imidacloprid	82.3	99.4	102		2.33
	Imidacloprid	93.2	131	121		8.02
	Linuron	70.3	74.8	68.0		9.50
	Linuron	88.0	82.9	77.7		6.46
	Mandestrobin	83.2	89.1	83.9		5.91
	Mandestrobin	83.2	90.7	87.0		4.17
	MCPP	96.8	104	121		15.0
	MCPP	103	113	112		0.567
	Methiocarb	76.1	71.6	64.9		9.83
	Methomyl	85.1	54.3	53.7		1.01

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Naproxen	66.0	66.7	59.6		11.3
	Naproxen	64.9	60.2	70.2		15.3
	Oxamyl	80.2	62.7	71.9		13.7
	Primidone	83.8	69.6	78.0		11.3
	Primidone	93.5	95.8	94.9		0.939
	Propoxur	76.8	47.6	45.9		3.67
	Pyraclostrobin	74.4	80.2	77.9		2.87
	Pyraclostrobin	74.9	83.3	78.1		6.46
	Silvex	100	114	106		6.71
	Silvex	106	109	105		4.09
	Sucralose	100	95.2	110		12.4
	Thiamethoxam	80.2	53.9	58.6		8.31
	Thiamethoxam	84.8	95.4	92.9		2.67
	Tolfenpyrad	53.0	49.2	55.9		12.8
	Tolfenpyrad	51.0	43.1	41.6		3.59
	Triclopyr	95.8	123	117		5.12
	Triclopyr	110	112	113		0.274
SM 2320 B-2011	Total Alkalinity	94.6			2.30	
SM 2540 C-2015	TDS	106			3.08	
SM 2540 D-2015	TSS	96.9				
SM 4500-F- C-2011	Fluoride	100	100	101		0.503
SM 5310 B-2011	Organic Carbon	95.5	94.5	95.6		0.836

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2400423, 2400425, 2400427
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2400423, 2400425, 2400427
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2400423, 2400425, 2400427
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2400423, 2400425, 2400427
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2400424, 2400426, 2400428
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2400424, 2400426, 2400428
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2400424, 2400426, 2400428
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2400424, 2400426, 2400428
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2400444
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2400443
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2400444
EPA 8270E	PCBs in water matrices by GC/MS/MS	2400443
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2400443
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2400441
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2400439, 2400440, 2400442
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2400423, 2400425, 2400427
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2400423, 2400425, 2400427
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2400423, 2400425, 2400427
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2400423, 2400425, 2400427
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2400424, 2400426, 2400428

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	04/14/2023			04/14/2023 14:27	Chandler E Cox	2400423
	04/14/2023			04/14/2023 14:28	Chandler E Cox	2400425, 2400427
EPA 180.1 Rev. 2.0	04/14/2023			04/14/2023 14:11	Khloe J Berg	2400423
	04/14/2023			04/14/2023 14:12	Khloe J Berg	2400425
	04/14/2023			04/14/2023 14:13	Khloe J Berg	2400427
EPA 300.0 Rev. 2.1	04/14/2023			04/21/2023 01:47	James L Waggeberby	2400423
	04/14/2023			04/21/2023 02:02	James L Waggeberby	2400425
	04/14/2023			04/21/2023 02:17	James L Waggeberby	2400427
EPA 350.1 Rev. 2.0	04/14/2023			04/20/2023 12:24	Khloe J Berg	2400426
	04/14/2023			04/20/2023 12:25	Khloe J Berg	2400428
	04/14/2023			04/25/2023 13:44	Ping Hua	2400424
EPA 351.2 Rev. 2.0	04/14/2023	04/17/2023 11:20	Simonne.V. Calhoun	04/19/2023 10:37	Samantha L Bates	2400424
	04/14/2023	04/17/2023 11:20	Simonne.V. Calhoun	04/19/2023 10:42	Samantha L Bates	2400426
	04/14/2023	04/17/2023 11:20	Simonne.V. Calhoun	04/19/2023 10:47	Samantha L Bates	2400428
EPA 353.2 Rev. 2.0	04/14/2023			04/25/2023 09:56	Beverly Y. Sanders	2400424
	04/14/2023			04/25/2023 09:58	Beverly Y. Sanders	2400426
	04/14/2023			04/25/2023 09:59	Beverly Y. Sanders	2400428
EPA 365.1 Rev. 2.0	04/14/2023	04/18/2023 13:49	Adam P Silver	04/19/2023 13:10	Simonne.V. Calhoun	2400428
	04/14/2023	04/18/2023 13:49	Adam P Silver	04/19/2023 13:19	Simonne.V. Calhoun	2400424
	04/14/2023	04/18/2023 13:49	Adam P Silver	04/19/2023 13:20	Simonne.V. Calhoun	2400426
EPA 8270E	04/14/2023	04/18/2023 08:00	Fe-Val Siddell	04/20/2023 22:53	Michael Poppell	2400443
	04/14/2023	04/18/2023 08:00	Fe-Val Siddell	04/24/2023 00:39	Julie Wi	2400443
	04/14/2023	04/20/2023 08:00	Rasheda Ghaffari	04/25/2023 16:48	Vandana T. Nagar	2400444
	04/14/2023	04/20/2023 08:00	Rasheda Ghaffari	04/27/2023 19:52	Arthur Maknenko	2400444
EPA 8276	04/14/2023	04/18/2023 08:00	Fe-Val Siddell	04/25/2023 11:28	Arthur Maknenko	2400443
EPA 8321B	04/14/2023	04/14/2023 12:00	Manjita Shrestha	04/14/2023 17:24	Manjita Shrestha	2400440
	04/14/2023	04/14/2023 12:00	Manjita Shrestha	04/14/2023 17:37	Manjita Shrestha	2400439
	04/14/2023	04/14/2023 12:00	Manjita Shrestha	04/14/2023 18:03	Manjita Shrestha	2400442
	04/14/2023	04/14/2023 12:00	Manjita Shrestha	04/14/2023 19:35	Manjita Shrestha	2400442
	04/14/2023	04/14/2023 12:00	Manjita Shrestha	04/15/2023 11:04	Manjita Shrestha	2400440
	04/14/2023	04/14/2023 12:00	Manjita Shrestha	04/15/2023 11:18	Manjita Shrestha	2400439
	04/14/2023	04/14/2023 12:00	Manjita Shrestha	04/15/2023 11:46	Manjita Shrestha	2400442
	04/14/2023	04/14/2023 13:00	Hoor Shaik	04/17/2023 21:35	Juyoung Kim	2400441
	04/14/2023	04/14/2023 13:00	Hoor Shaik	04/18/2023 14:11	Juyoung Kim	2400439
	04/14/2023	04/14/2023 13:00	Hoor Shaik	04/18/2023 14:30	Juyoung Kim	2400440
SM 2320 B-2011	04/14/2023	04/15/2023 09:00	Hoor Shaik	04/18/2023 16:41	Juyoung Kim	2400442
	04/14/2023			04/19/2023 01:30	Dale L. Simmons	2400425
	04/14/2023			04/19/2023 01:41	Dale L. Simmons	2400427
SM 2540 C-2015	04/14/2023			04/19/2023 02:13	Dale L. Simmons	2400423
	04/14/2023			04/19/2023 15:28	Yijie Li	2400423, 2400425, 2400427

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2540 D-2015	04/14/2023			04/19/2023 15:28	Yijie Li	2400423, 2400425, 2400427
	04/14/2023			04/25/2023 10:23	Dale L. Simmons	2400425
	04/14/2023			04/25/2023 10:28	Dale L. Simmons	2400427
	04/14/2023			04/25/2023 10:39	Dale L. Simmons	2400423
SM 5310 B-2011	04/14/2023			04/19/2023 04:18	Elise M. Gillis	2400426
	04/14/2023			04/19/2023 05:42	Elise M. Gillis	2400424
	04/14/2023			04/19/2023 05:56	Elise M. Gillis	2400428