

Chemical Analysis Report

NE-DIST-2020-08-28-02

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **ICW Boat**
Request ID: **RQ-2020-08-24-07**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 17-SEP-2020 14:50

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

Case Narrative

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

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Hopkins CR at Kings Rd.

Collection Date/Time: 08/27/2020 09:20

Field ID: 20030758

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2193074	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P386705	
	EPA 300.0 Rev. 2.1	Bromide	26		mg Br/L	P387263	
	SM 2320 B-2011	Total Alkalinity	110		mg CaCO3/L	P386764	
	SM 2540 D-2011	TSS	16		mg/L	P387004	
	SM 4500 F-C-2011	Fluoride	0.65		mg F/L	P386900	
2193075	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P387022	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.77		mg N/L	P386807	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.066		mg N/L	P386748	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P386754	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P386769	
2193076	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.087		mg P/L	P386708	
2193102	EPA 200.7 Rev. 4.4	Chromium	7.9	I	ug/L	P386925	
		Iron	630		ug/L	P386925	
		Manganese	33		ug/L	P386925	
		Zinc	15	U	ug/L	P386925	
	EPA 200.8 Rev. 5.4	Aluminum	525		ug/L	P386925	
		Antimony	0.23	I	ug/L	P386925	
		Arsenic	2.95		ug/L	P386925	
		Cadmium	0.080	U	ug/L	P386925	
		Copper	1.6	U	ug/L	P386925	
		Lead	1.3	I	ug/L	P386925	
		Nickel	2.0	U	ug/L	P386925	
		Selenium	0.80	U	ug/L	P386925	
		Silver	0.040	U	ug/L	P386925	
		Thallium	0.40	U	ug/L	P386925	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Bromide: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

Sample Location: ICW @ CM 15 Duval Co.

Collection Date/Time: 08/27/2020 09:50

Field ID: 27010114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2193071	EPA 180.1 Rev. 2.0	Turbidity	9.7		NTU	P386705	
	EPA 300.0 Rev. 2.1	Bromide	32		mg Br/L	P387263	
	SM 2320 B-2011	Total Alkalinity	96	A	mg CaCO3/L	P386764	
	SM 2540 D-2011	TSS	17	A	mg/L	P387004	
	SM 4500 F-C-2011	Fluoride	0.73		mg F/L	P386900	
2193072	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P387022	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.51		mg N/L	P386807	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.072		mg N/L	P386748	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P386754	
	SM 5310 B-2011	Organic Carbon	8.5		mg C/L	P386769	
2193073	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.057		mg P/L	P386708	
2193094	EPA 8321B	Aldicarb	0.020	U	ug/L	P386810	
		Aldicarb Sulfone	0.0020	U	ug/L	P386810	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P386810	
		Carbaryl	0.0020	U	ug/L	P386810	
		Carbofuran	0.0020	U	ug/L	P386810	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P386810	
		Methiocarb	0.0020	U	ug/L	P386810	
		Methomyl	0.0020	U	ug/L	P386810	
		Oxamyl	0.0020	U	ug/L	P386810	
		Propoxur	0.0020	U	ug/L	P386810	
2193095		2,4-D	0.011		ug/L	P386810	
		Acesulfame K**	0.10	UJ	ug/L	P386702	SUR
		AMPA**	1.0	U	ug/L	P386702	
		Sucralose**	0.33		ug/L	P386702	
		Acetaminophen**	0.0080	U	ug/L	P386810	
		Acetamiprid**	0.0020	U	ug/L	P386810	
		Endothal**	0.25	UJ	ug/L	P386702	SUR
		Glufosinate**	1.0	U	ug/L	P386702	
		Glyphosate**	1.0	U	ug/L	P386702	
		Afidopyropen**	0.0020	U	ug/L	P386810	
		Bentazon	0.0079		ug/L	P386810	
		Benzovindiflupyr**	0.0020	U	ug/L	P386810	
		Carbamazepine**	8.0E-04	U	ug/L	P386810	
		Clothianidin**	0.0020	U	ug/L	P386810	
		Dinotefuran**	0.0020	U	ug/L	P386810	
		Diuron	0.014		ug/L	P386810	
		Fenuron	0.016	U	ug/L	P386810	
		Fluridone**	0.018		ug/L	P386810	
		Imazapyr**	0.048		ug/L	P386810	
		Hydrocodone**	0.0020	U	ug/L	P386810	
		Ibuprofen**	0.020	U	ug/L	P386810	
		Imidacloprid	0.017		ug/L	P386810	

Field ID: 27010114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2193095	EPA 8321B	Linuron	0.0040	U	ug/L	P386810	
		Mandestrobin**	0.0020	U	ug/L	P386810	
		MCP	0.0020	U	ug/L	P386810	
		Naproxen**	0.0080	U	ug/L	P386810	
		Primidone**	0.0040	U	ug/L	P386810	
		Pyraclostrobin**	0.0020	U	ug/L	P386810	
		Thiamethoxam**	0.0020	U	ug/L	P386810	
		Tolfenpyrad**	0.0020	U	ug/L	P386810	
		Triclopyr**	0.0040	U	ug/L	P386810	
2193099	EPA 8270E	Aldrin	4.1	U	ng/L	P386636	
		Alpha-BHC	2.0	U	ng/L	P386636	
		Alpha-Chlordane	1.0	U	ng/L	P386636	
		Beta-BHC	8.2	U	ng/L	P386636	
		Beta-Cyfluthrin**	15	U	ng/L	P386636	
		Bifenthrin**	4.1	U	ng/L	P386636	
		Delta-BHC	8.2	U	ng/L	P386636	
		Gamma-BHC	8.2	U	ng/L	P386636	
		Chlorothalonil	2.0	U	ng/L	P386636	
		Cis-Nonachlor**	1.0	U	ng/L	P386636	
		Cypermethrin	20	U	ng/L	P386636	
		Dacthal**	1.0	U	ng/L	P386636	
		DDD-p,p'	5.1	U	ng/L	P386636	
		DDE-p,p'	5.1	U	ng/L	P386636	
		DDT-p,p'	6.1	U	ng/L	P386636	
		Deltamethrin**	20	U	ng/L	P386636	
		Dicofol	31	U	ng/L	P386636	
		Dieldrin	4.1	U	ng/L	P386636	
		Endosulfan I	4.1	U	ng/L	P386636	
		Endosulfan II	4.1	U	ng/L	P386636	
		Endosulfan Sulfate	2.0	U	ng/L	P386636	
		Endrin	2.0	U	ng/L	P386636	
		Endrin Aldehyde	2.0	U	ng/L	P386636	
		Endrin Ketone	2.0	U	ng/L	P386636	
		Ethalfuralin**	3.1	U	ng/L	P386636	
		Gamma-Chlordane	1.0	U	ng/L	P386636	
		Heptachlor	1.5	U	ng/L	P386636	
		Heptachlor Epoxide	2.0	U	ng/L	P386636	
		Hexachlorobenzene	2.0	U	ng/L	P386636	
		Lambda-Cyhalothrin**	15	U	ng/L	P386636	
		Methoxychlor	4.1	U	ng/L	P386636	
		Mirex	2.0	U	ng/L	P386636	
		Permethrin	10	U	ng/L	P386636	
		Phenothrin**	31	U	ng/L	P386636	
		Prallethrin**	26	U	ng/L	P386636	
		Trans-Nonachlor**	1.0	U	ng/L	P386636	

Field ID: 27010114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2193099	EPA 8270E	Trifluralin	2.6	U	ng/L	P386636	
	EPA 8276	Chlordane	5.1	U	ng/L	P386636	
		Toxaphene	31	U	ng/L	P386636	
2193100	EPA 8270E	Acetochlor	0.24	U	ng/L	P386604	
		Alachlor	0.24	U	ng/L	P386604	MS
		Ametryn	0.57	U	ng/L	P386604	
		Atrazine	12		ng/L	P386604	
		Atrazine Desethyl	5.3	I	ng/L	P386604	
		Azinphos Methyl	1.9	U	ng/L	P386604	
		Bromacil	0.47	U	ng/L	P386604	
		Butylate	0.38	U	ng/L	P386604	RPD
		Carbophenothion	0.47	U	ng/L	P386604	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P386604	
		Chlorpyrifos Methyl	0.047	U	ng/L	P386604	
		Cyanazine	3.1	U	ng/L	P386604	
		Demeton	1.4	U	ng/L	P386604	
		Diazinon	0.12	U	ng/L	P386604	
		Dimethenamid**	0.095	U	ng/L	P386604	
		Disulfoton	0.47	U	ng/L	P386604	
		Dithiopyr**	0.14	I	ng/L	P386604	
		EPTC	1.2	U	ng/L	P386604	
		Ethion	0.14	U	ng/L	P386604	
		Ethoprop	0.095	U	ng/L	P386604	
		Fenamiphos	0.47	U	ng/L	P386604	
		Fipronil	0.51	I	ng/L	P386604	
		Fipronil Desulfinyl**	0.40	I	ng/L	P386604	
		Fipronil Sulfide	0.42	I	ng/L	P386604	
		Fipronil Sulfone	1.2		ng/L	P386604	
		Flumioxazin**	1.7	U	ng/L	P386604	
		Fonofos	0.19	U	ng/L	P386604	
		Hexazinone	0.47	U	ng/L	P386604	
		Imazalil**	0.71	U	ng/L	P386604	
		Malathion	0.33	U	ng/L	P386604	
		Metalaxyl	0.71	U	ng/L	P386604	
		Metolachlor	2.8		ng/L	P386604	
		Metribuzin	3.5	I	ng/L	P386604	
		Mevinphos	0.47	U	ng/L	P386604	
		Molinate	0.28	U	ng/L	P386604	
		Naled**	1.4	U	ng/L	P386604	
		Norflurazon	0.47	U	ng/L	P386604	
		Oxadiazon	6.4		ng/L	P386604	
		Parathion Ethyl	0.24	U	ng/L	P386604	
		Parathion Methyl	0.52	U	ng/L	P386604	
		Pendimethalin	0.95	U	ng/L	P386604	
		Phorate	0.24	U	ng/L	P386604	

Field ID: 27010114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2193100	EPA 8270E	Prodiamine**	0.17	U	ng/L	P386604	RPD
		Prometon	0.85	U	ng/L	P386604	
		Prometryn	0.19	U	ng/L	P386604	
		Pronamide**	0.14	U	ng/L	P386604	
		Propiconazole**	2.4		ng/L	P386604	
		Simazine	1.9	I	ng/L	P386604	
		Sulfentrazone**	7.3		ng/L	P386604	
		Tebuconazole**	4.8		ng/L	P386604	
		Terbufos	0.095	U	ng/L	P386604	
		Terbutylazine	0.40	U	ng/L	P386604	
2193101	EPA 200.7 Rev. 4.4	Chromium	8.2	I	ug/L	P386925	
		Iron	480		ug/L	P386925	
		Manganese	16		ug/L	P386925	
	EPA 200.8 Rev. 5.4	Zinc	15	U	ug/L	P386925	
		Aluminum	406		ug/L	P386925	
		Antimony	0.21	I	ug/L	P386925	
		Arsenic	2.57		ug/L	P386925	
		Cadmium	0.080	U	ug/L	P386925	
		Copper	1.6	U	ug/L	P386925	
		Lead	0.80	U	ug/L	P386925	
		Nickel	2.0	U	ug/L	P386925	
		Selenium	0.80	U	ug/L	P386925	
		Silver	0.040	U	ug/L	P386925	
		Thallium	0.40	U	ug/L	P386925	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Bromide: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

EPA 8321B: Results confirmed in sample duplicate. MDL for some parameters elevated due to matrix interference. 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.

Sample Location: Sisters Creek at Heckscher Dr.

Collection Date/Time: 08/27/2020 10:20

Field ID: 20030491

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2193077	EPA 180.1 Rev. 2.0	Turbidity	9.8		NTU	P386705	
	EPA 300.0 Rev. 2.1	Bromide	36		mg Br/L	P387263	
	SM 2320 B-2011	Total Alkalinity	98		mg CaCO3/L	P386764	
	SM 2540 D-2011	TSS	16		mg/L	P387004	
	SM 4500 F-C-2011	Fluoride	0.81		mg F/L	P386900	
2193078	EPA 350.1 Rev. 2.0	Ammonia-N	0.041		mg N/L	P387022	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.54		mg N/L	P386807	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.046		mg N/L	P386748	
	EPA 365.1 Rev. 2.0	Total-P	0.096		mg P/L	P386754	
	SM 5310 B-2011	Organic Carbon	7.1		mg C/L	P386769	
2193079	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.055		mg P/L	P386708	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Bromide: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386705

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P386925

Component	Result	Code	Units
Chromium	1.0	U	ug/L
Iron	30	U	ug/L
Manganese	1.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P386925

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387263

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387022

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386807

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386748

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P386754

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P386708

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

Reference Method: EPA 8270E
 Batch ID: P386604

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.50	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Flumioxazin	1.8	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Naled	1.5	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P386604

Component	Result	Code	Units
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P386636

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	8.0	U	ng/L
Beta-Cyfluthrin	15	U	ng/L
Bifenthrin	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
Dacthal	1.0	U	ng/L
DDD-p,p'	5.0	U	ng/L
DDE-p,p'	5.0	U	ng/L
DDT-p,p'	6.0	U	ng/L
Delta-BHC	8.0	U	ng/L
Deltamethrin	20	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfuralin	3.0	U	ng/L
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Lambda-Cyhalothrin	15	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Phenothrin	30	U	ng/L
Prallethrin	25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P386636

Component	Result	Code	Units
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276
 Batch ID: P386636

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
 Batch ID: P386702

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: P386810

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	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
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P386810

Component	Result	Code	Units
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	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: P386764

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

Reference Method: SM 2540 D-2011
Batch ID: P387004

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P386900

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P386769

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P386925

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chromium	105		P	85 - 115
Iron	103		P	85 - 115
Manganese	106		P	85 - 115
Zinc	109		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P386925

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	91.0		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	95.8		P	85 - 115
Cadmium	98.5		P	85 - 115
Copper	93.2		P	85 - 115
Lead	98.1		P	85 - 115
Nickel	91.5		P	85 - 115
Selenium	96.2		P	85 - 115
Silver	98.8		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bromide	94.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387022

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386807

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.1		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386748

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386754

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386708

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

Reference Method: EPA 8270E
Batch ID: P386604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	85.5	94.2	P/P	71 - 122
Alachlor	87.7	93.0	P/P	70 - 121
Ametryn	93.1	116	P/P	49 - 137
Atrazine	94.5	104	P/P	76 - 125
Atrazine Desethyl	89.9	97.7	P/P	31 - 144
Azinphos Methyl	104	109	P/P	67 - 150
Bromacil	91.4	99.9	P/P	36 - 121
Butylate	43.7	49.0	P/P	33 - 88.0
Carbophenothion	100	104	P/P	66 - 116
Chlorpyrifos Ethyl	90.1	95.7	P/P	73 - 117
Chlorpyrifos Methyl	81.0	88.3	P/P	68 - 121
Cyanazine	101	96.6	P/P	20 - 250
Demeton	73.9	73.5	P/P	30 - 123
Diazinon	87.3	93.8	P/P	70 - 128
Dimethenamid	86.4	95.1	P/P	66 - 122
Disulfoton	74.8	72.3	P/P	46 - 124
Dithiopyr	91.3	98.5	P/P	69 - 122
EPTC	44.3	49.1	P/P	31 - 90.0
Ethion	102	106	P/P	45 - 135
Ethoprop	75.3	72.4	P/P	59 - 118
Fenamiphos	96.6	92.9	P/P	30 - 136
Fipronil	95.8	104	P/P	57 - 127
Fipronil Desulfinyl	97.1	106	P/P	51 - 122
Fipronil Sulfide	98.0	102	P/P	57 - 119
Fipronil Sulfone	95.3	102	P/P	51 - 119
Flumioxazin	119	130	P/P	20 - 250
Fonofos	70.4	71.3	P/P	60 - 120
Hexazinone	102	108	P/P	57 - 142
Imazalil	130	106	P/P	30 - 139
Malathion	93.5	91.6	P/P	67 - 128
Metalaxyl	93.6	100	P/P	21 - 148
Metolachlor	90.8	97.8	P/P	70 - 120
Metribuzin	103	110	P/P	20 - 250
Mevinphos	66.4	60.2	P/P	47 - 116
Molinate	51.8	54.6	P/P	41 - 99.0
Naled	53.3	50.0	P/P	38 - 97.0
Norflurazon	93.7	105	P/P	54 - 127
Oxadiazon	92.7	101	P/P	65 - 122
Parathion Ethyl	89.8	90.4	P/P	71 - 113
Parathion Methyl	89.6	97.6	P/P	73 - 129
Pendimethalin	103	101	P/P	63 - 130
Phorate	60.1	62.6	P/P	48 - 118
Prodiamine	141	127	P/P	20 - 144
Prometon	83.3	98.4	P/P	53 - 120
Prometryn	93.3	105	P/P	63 - 119
Pronamide	88.6	114	P/P	81 - 122

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P386604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propiconazole	94.0	104	P/P	62 - 124
Simazine	105	121	P/P	77 - 129
Sulfentrazone	65.0	69.5	P/P	20 - 137
Tebuconazole	94.2	102	P/P	20 - 118
Terbufos	75.2	78.5	P/P	61 - 119
Terbutylazine	92.3	97.1	P/P	75 - 119

Reference Method: EPA 8270E
 Batch ID: P386636

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.2	52.2	P/P	20 - 87.0
Alpha-BHC	82.2	80.7	P/P	65 - 142
Alpha-Chlordane	86.1	84.0	P/P	58 - 106
Beta-BHC	106	104	P/P	65 - 179
Beta-Cyfluthrin	75.9	74.5	P/P	39 - 153
Bifenthrin	86.1	86.0	P/P	38 - 128
Chlorothalonil	50.8	47.0	P/P	20 - 214
Cis-Nonachlor	91.3	89.4	P/P	56 - 113
Cypermethrin	94.7	91.2	P/P	37 - 130
Dacthal	93.5	92.1	P/P	75 - 109
DDD-p,p'	94.9	93.4	P/P	66 - 119
DDE-p,p'	83.6	83.6	P/P	53 - 108
DDT-p,p'	83.0	82.2	P/P	57 - 133
Delta-BHC	118	112	P/P	68 - 187
Deltamethrin	103	101	P/P	50 - 200
Dicofol	95.6	98.9	P/P	66 - 123
Dieldrin	88.1	89.4	P/P	65 - 111
Endosulfan I	86.3	84.2	P/P	65 - 115
Endosulfan II	103	103	P/P	68 - 133
Endosulfan Sulfate	94.2	89.1	P/P	62 - 127
Endrin	82.7	76.8	P/P	64 - 122
Endrin Aldehyde	114	112	P/P	61 - 132
Endrin Ketone	91.5	91.0	P/P	66 - 120
Ethalfuralin	76.2	76.5	P/P	57 - 127
Gamma-BHC	98.3	95.1	P/P	71 - 158
Gamma-Chlordane	84.3	83.3	P/P	53 - 106
Heptachlor	72.4	70.1	P/P	45 - 96.0
Heptachlor Epoxide	88.4	87.5	P/P	64 - 109
Hexachlorobenzene	71.3	73.2	P/P	46 - 103
Lambda-Cyhalothrin	79.6	77.1	P/P	38 - 145
Methoxychlor	79.9	79.0	P/P	69 - 149
Mirex	68.5	68.8	P/P	31 - 90.0
Permethrin	81.9	82.6	P/P	41 - 108
Phenothrin	60.1	60.4	P/P	22 - 91.0
Prallethrin	57.3	56.1	P/P	32 - 92.0
Trans-Nonachlor	86.1	84.4	P/P	50 - 107
Trifluralin	77.6	78.1	P/P	58 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P386636

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.4	91.2	P/P	47 - 119
Toxaphene	88.3	85.2	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P386702

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	72.0		P	40 - 150
AMPA	70.2		P	40 - 150
Endothall	109		P	40 - 150
Glufosinate	95.9		P	40 - 150
Glyphosate	116		P	40 - 140
Sucralose	100		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P386810

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.1		P	30 - 160
3-Hydroxycarbofuran	83.7		P	30 - 160
Acetaminophen	92.7		P	30 - 160
Acetamiprid	75.6		P	30 - 160
Afidopyropen	56.9		P	30 - 160
Aldicarb	71.3		P	30 - 160
Aldicarb Sulfone	97.4		P	30 - 160
Aldicarb Sulfoxide	98.1		P	30 - 160
Bentazon	75.0		P	30 - 160
Benzovindiflupyr	71.8		P	30 - 160
Carbamazepine	64.1		P	30 - 160
Carbaryl	68.4		P	30 - 160
Carbofuran	55.8		P	30 - 160
Clothianidin	89.3		P	30 - 160
Dinotefuran	100		P	30 - 160
Diuron	66.9		P	30 - 160
Fenuron	105		P	30 - 160
Fluridone	77.3		P	30 - 160
Hydrocodone	93.4		P	30 - 160
Ibuprofen	77.7		P	30 - 160
Imazapyr	80.5		P	30 - 160
Imidacloprid	105		P	30 - 160
Linuron	75.9		P	30 - 160
Mandestrobin	77.5		P	30 - 160
MCPP	101		P	30 - 160
Methiocarb	55.8		P	30 - 160
Methomyl	94.7		P	30 - 160
Naproxen	47.6		P	30 - 160
Oxamyl	93.2		P	30 - 160
Primidone	87.0		P	30 - 160
Propoxur	60.6		P	30 - 160
Pyraclostrobin	57.6		P	30 - 160
Thiamethoxam	90.6		P	30 - 160
Tolfenpyrad	44.7		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P386810

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	63.1		P	30 - 160

Reference Method: SM 2320 B-2011
Batch ID: P386764

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P386900

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P386769

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	104		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P386925

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193579	Chromium	105	99.8	P/P	70 - 130
2193579	Iron	109	108	P/P	70 - 130
2193579	Manganese	110	108	P/P	70 - 130
2193579	Zinc	113	110	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P386925

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193579	Aluminum	92.3	90.6	P/P	70 - 130
2193579	Antimony	101	102	P/P	70 - 130
2193579	Arsenic	97.3	97.5	P/P	70 - 130
2193579	Cadmium	99.1	97.7	P/P	70 - 130
2193579	Copper	97.9	97.6	P/P	70 - 130
2193579	Lead	97.8	98.2	P/P	70 - 130
2193579	Nickel	96.0	94.8	P/P	70 - 130
2193579	Selenium	98.0	96.4	P/P	70 - 130
2193579	Silver	96.8	97.0	P/P	70 - 130
2193579	Thallium	98.9	102	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193332	Bromide	92.0	91.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193097	Ammonia-N	103	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386807

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193097	Kjeldahl Nitrogen	94.7	96.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193072	NO2NO3-N	99.3	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2192828	Total-P	104	104	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2192991	O-Phosphate-P	102	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P386604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2192191	Acetochlor	78.3	71.1	P/P	68 - 126
2192191	Alachlor	71.0	63.6	P/F	66 - 125
2192191	Azinphos Methyl	148	130	P/P	54 - 162
2192191	Bromacil	98.3	89.4	P/P	34 - 144
2192191	Butylate	59.5	41.6	P/P	16 - 92.0
2192191	Carbophenothion	89.8	87.1	P/P	30 - 131
2192191	Chlorpyrifos Ethyl	85.3	88.8	P/P	63 - 124
2192191	Chlorpyrifos Methyl	85.8	85.3	P/P	64 - 125
2192191	Cyanazine	98.9	90.7	P/P	13 - 245
2192191	Demeton	86.5	103	P/P	20 - 154
2192191	Diazinon	88.9	82.7	P/P	66 - 141
2192191	Dimethenamid	81.2	75.4	P/P	50 - 130
2192191	Disulfoton	80.0	73.6	P/P	55 - 130
2192191	Dithiopyr	78.6	72.8	P/P	66 - 122
2192191	EPTC	51.6	46.7	P/P	15 - 93.0
2192191	Ethion	88.6	79.4	P/P	15 - 148
2192191	Ethoprop	83.5	80.8	P/P	59 - 126
2192191	Fenamiphos	75.0	76.5	P/P	39 - 137
2192191	Fipronil	103	95.4	P/P	47 - 131
2192191	Fipronil Desulfynil	93.7	86.0	P/P	43 - 121
2192191	Fipronil Sulfide	96.7	97.5	P/P	29 - 134
2192191	Fipronil Sulfone	115	110	P/P	19 - 131
2192191	Flumioxazin	188	187	P/P	10 - 300
2192191	Fonofos	81.8	77.3	P/P	62 - 128
2192191	Hexazinone	89.1	94.2	P/P	58 - 154
2192191	Imazalil	58.0	53.4	P/P	10 - 215
2192191	Malathion	95.2	92.6	P/P	54 - 135
2192191	Metalaxyl	85.0	77.6	P/P	46 - 136
2192191	Metribuzin	118	118	P/P	44 - 277
2192191	Mevinphos	77.4	79.5	P/P	44 - 135
2192191	Molinate	68.4	65.3	P/P	31 - 104
2192191	Naled	64.0	55.9	P/P	33 - 113
2192191	Norflurazon	78.8	74.1	P/P	32 - 134
2192191	Oxadiazon	75.6	66.9	P/P	55 - 123
2192191	Parathion Ethyl	86.8	93.8	P/P	67 - 120
2192191	Parathion Methyl	93.4	92.1	P/P	70 - 140
2192191	Pendimethalin	109	110	P/P	59 - 145
2192191	Phorate	89.6	99.9	P/P	52 - 127
2192191	Prodiamine	134	93.3	P/P	11 - 157
2192191	Prometon	79.6	77.4	P/P	55 - 130
2192191	Prometryn	89.0	81.8	P/P	55 - 127
2192191	Pronamide	81.4	85.3	P/P	66 - 150
2192191	Propiconazole	94.3	81.0	P/P	14 - 178
2192191	Tebuconazole	31.1	41.8	P/P	10 - 122
2192191	Terbufos	90.8	89.1	P/P	65 - 131
2192191	Terbutylazine	88.9	80.2	P/P	63 - 131

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P386636

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193123	Aldrin	52.1	50.9	P/P	32 - 82.0
2193123	Alpha-BHC	78.9	78.1	P/P	68 - 157
2193123	Alpha-Chlordane	80.5	79.2	P/P	54 - 108
2193123	Beta-BHC	88.3	89.1	P/P	54 - 200
2193123	Beta-Cyfluthrin	82.1	79.5	P/P	50 - 154
2193123	Bifenthrin	87.8	87.6	P/P	49 - 124
2193123	Chlorothalonil	58.0	58.3	P/P	10 - 289
2193123	Cis-Nonachlor	85.1	83.4	P/P	53 - 112
2193123	Cypermethrin	89.9	89.8	P/P	43 - 141
2193123	Dacthal	86.2	84.6	P/P	75 - 112
2193123	DDD-p,p'	86.9	86.6	P/P	58 - 125
2193123	DDE-p,p'	80.5	80.1	P/P	50 - 108
2193123	DDT-p,p'	80.2	81.2	P/P	52 - 140
2193123	Delta-BHC	111	111	P/P	61 - 228
2193123	Deltamethrin	104	105	P/P	50 - 200
2193123	Dicofol	94.9	93.7	P/P	59 - 130
2193123	Dieldrin	83.0	83.1	P/P	57 - 121
2193123	Endosulfan I	81.4	82.1	P/P	62 - 123
2193123	Endosulfan II	87.0	93.8	P/P	48 - 163
2193123	Endosulfan Sulfate	86.9	84.4	P/P	63 - 132
2193123	Endrin	81.6	81.7	P/P	58 - 128
2193123	Endrin Aldehyde	92.6	87.5	P/P	44 - 126
2193123	Endrin Ketone	83.9	83.8	P/P	68 - 127
2193123	Ethalfuralin	72.4	75.1	P/P	55 - 131
2193123	Gamma-BHC	87.9	88.0	P/P	54 - 206
2193123	Gamma-Chlordane	78.3	76.8	P/P	52 - 105
2193123	Heptachlor	69.1	67.9	P/P	47 - 94.0
2193123	Heptachlor Epoxide	81.8	80.5	P/P	61 - 113
2193123	Hexachlorobenzene	66.4	67.3	P/P	45 - 100
2193123	Lambda-Cyhalothrin	81.9	81.3	P/P	37 - 165
2193123	Methoxychlor	77.0	76.7	P/P	63 - 153
2193123	Mirex	68.4	68.5	P/P	38 - 90.0
2193123	Permethrin	82.1	82.1	P/P	45 - 112
2193123	Phenothrin	61.7	61.9	P/P	22 - 118
2193123	Prallethrin	55.1	52.1	P/P	21 - 114
2193123	Trans-Nonachlor	80.0	77.8	P/P	50 - 103
2193123	Trifluralin	73.8	74.4	P/P	57 - 122

Reference Method: EPA 8276
 Batch ID: P386636

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193099	Chlordane	90.9	94.9	P/P	34 - 129
2193099	Toxaphene	95.1	103	P/P	26 - 123

Reference Method: EPA 8321B
 Batch ID: P386702

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193053	Acesulfame K	78.9	85.6	P/P	40 - 150
2193053	AMPA	92.9	97.4	P/P	40 - 150
2193053	Endothall	113	124	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P386702

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193053	Glufosinate	120	115	P/P	40 - 150
2193053	Glyphosate	96.1	98.4	P/P	40 - 140
2193053	Sucralose	101	103	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P386810

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193261	3-Hydroxycarbofuran	68.4	68.9	P/P	30 - 160
2193261	Aldicarb	48.5	56.7	P/P	30 - 160
2193261	Aldicarb Sulfone	85.0	86.7	P/P	30 - 160
2193261	Aldicarb Sulfoxide	41.8	41.5	P/P	30 - 160
2193261	Carbaryl	52.7	56.4	P/P	30 - 160
2193261	Carbofuran	49.4	49.7	P/P	30 - 160
2193261	Methiocarb	52.3	53.8	P/P	30 - 160
2193261	Methomyl	88.0	87.0	P/P	30 - 160
2193261	Oxamyl	80.3	81.5	P/P	30 - 160
2193261	Propoxur	49.2	51.2	P/P	30 - 160
2193354	2,4-D	91.3	88.1	P/P	30 - 160
2193354	Acetaminophen	77.5	81.7	P/P	30 - 160
2193354	Acetamiprid	67.1	68.2	P/P	30 - 160
2193354	Afidopyropen	53.5	53.1	P/P	30 - 160
2193354	Bentazon	39.6	46.3	P/P	30 - 160
2193354	Benzovindiflupyr	64.8	63.2	P/P	30 - 160
2193354	Carbamazepine	53.9	56.6	P/P	30 - 160
2193354	Clothianidin	59.9	61.4	P/P	30 - 160
2193354	Dinotefuran	78.8	83.2	P/P	30 - 160
2193354	Diuron	54.1	52.8	P/P	30 - 160
2193354	Fenuron	68.2	72.4	P/P	30 - 160
2193354	Fluridone	75.4	94.7	P/P	30 - 160
2193354	Hydrocodone	64.7	70.3	P/P	30 - 160
2193354	Ibuprofen	83.5	71.2	P/P	30 - 160
2193354	Imidacloprid	109	118	P/P	30 - 160
2193354	Linuron	67.1	68.9	P/P	30 - 160
2193354	Mandestrobin	70.5	75.6	P/P	30 - 160
2193354	MCP	111	110	P/P	30 - 160
2193354	Naproxen	49.2	63.2	P/P	30 - 160
2193354	Primidone	76.8	79.3	P/P	30 - 160
2193354	Pyraclostrobin	59.1	60.2	P/P	30 - 160
2193354	Thiamethoxam	72.7	71.8	P/P	30 - 160
2193354	Tolfenpyrad	51.7	48.2	P/P	30 - 160
2193354	Triclopyr	87.5	87.4	P/P	30 - 160

Reference Method: SM 4500 F-C-2011
Batch ID: P386900

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193249	Fluoride	99.4	100	P/P	94 - 107

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P386769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2193072	Organic Carbon	101	99.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193035	Turbidity	0.984	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P386925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193579	Chromium	4.99	Spike	P	0 - 20
2193579	Iron	0.143	Spike	P	0 - 20
2193579	Manganese	1.78	Spike	P	0 - 20
2193579	Zinc	3.12	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P386925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193579	Aluminum	1.75	Spike	P	0 - 20
2193579	Antimony	0.862	Spike	P	0 - 20
2193579	Arsenic	0.212	Spike	P	0 - 20
2193579	Cadmium	1.40	Spike	P	0 - 20
2193579	Copper	0.268	Spike	P	0 - 20
2193579	Lead	0.400	Spike	P	0 - 20
2193579	Nickel	1.26	Spike	P	0 - 20
2193579	Selenium	1.66	Spike	P	0 - 20
2193579	Silver	0.141	Spike	P	0 - 20
2193579	Thallium	2.73	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P387263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193332	Bromide	0.341	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P387022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193097	Ammonia-N	1.62	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386807

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193097	Kjeldahl Nitrogen	1.81	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193072	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2192828	Total-P	0.341	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2192991	O-Phosphate-P	2.42	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P386604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2192191	Acetochlor	9.55	Spike	P	0 - 30
2192191	Alachlor	11.0	Spike	P	0 - 30
2192191	Ametryn	3.61	Spike	P	0 - 30
2192191	Atrazine	22.0	Spike	P	0 - 30
2192191	Atrazine Desethyl	10.8	Spike	P	0 - 30
2192191	Azinphos Methyl	12.8	Spike	P	0 - 30
2192191	Bromacil	9.47	Spike	P	0 - 30
2192191	Butylate	35.5	Spike	F	0 - 30
2192191	Carbophenothion	3.02	Spike	P	0 - 30
2192191	Chlorpyrifos Ethyl	4.11	Spike	P	0 - 30
2192191	Chlorpyrifos Methyl	0.679	Spike	P	0 - 30
2192191	Cyanazine	8.65	Spike	P	0 - 30
2192191	Demeton	17.0	Spike	P	0 - 30
2192191	Diazinon	7.17	Spike	P	0 - 30
2192191	Dimethenamid	7.49	Spike	P	0 - 30
2192191	Disulfoton	8.24	Spike	P	0 - 30
2192191	Dithiopyr	7.25	Spike	P	0 - 30
2192191	EPTC	9.94	Spike	P	0 - 30
2192191	Ethion	11.0	Spike	P	0 - 30
2192191	Ethoprop	3.36	Spike	P	0 - 30
2192191	Fenamiphos	2.03	Spike	P	0 - 30
2192191	Fipronil	7.61	Spike	P	0 - 30
2192191	Fipronil Desulfinyl	6.48	Spike	P	0 - 30
2192191	Fipronil Sulfide	0.656	Spike	P	0 - 30
2192191	Fipronil Sulfone	1.96	Spike	P	0 - 30
2192191	Flumioxazin	0.601	Spike	P	0 - 30
2192191	Fonofos	5.73	Spike	P	0 - 30
2192191	Hexazinone	5.03	Spike	P	0 - 30
2192191	Imazalil	8.20	Spike	P	0 - 30
2192191	Malathion	2.72	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P386604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2192191	Metalaxyl	9.16	Spike	P	0 - 30
2192191	Metolachlor	8.14	Spike	P	0 - 30
2192191	Metribuzin	0.344	Spike	P	0 - 30
2192191	Mevinphos	2.67	Spike	P	0 - 30
2192191	Molinate	4.73	Spike	P	0 - 30
2192191	Naled	13.4	Spike	P	0 - 30
2192191	Norflurazon	6.09	Spike	P	0 - 30
2192191	Oxadiazon	8.55	Spike	P	0 - 30
2192191	Parathion Ethyl	7.81	Spike	P	0 - 30
2192191	Parathion Methyl	1.40	Spike	P	0 - 30
2192191	Pendimethalin	0.634	Spike	P	0 - 30
2192191	Phorate	11.0	Spike	P	0 - 30
2192191	Prodiamine	36.2	Spike	F	0 - 30
2192191	Prometon	2.78	Spike	P	0 - 30
2192191	Prometryn	8.38	Spike	P	0 - 30
2192191	Pronamide	4.63	Spike	P	0 - 30
2192191	Propiconazole	12.3	Spike	P	0 - 30
2192191	Simazine	7.45	Spike	P	0 - 30
2192191	Sulfentrazone	1.33	Spike	P	0 - 30
2192191	Tebuconazole	29.6	Spike	P	0 - 30
2192191	Terbufos	1.86	Spike	P	0 - 30
2192191	Terbutylazine	10.3	Spike	P	0 - 30
LFB	Acetochlor	9.71	LCS	P	0 - 30
LFB	Alachlor	5.82	LCS	P	0 - 30
LFB	Ametryn	21.5	LCS	P	0 - 30
LFB	Atrazine	9.48	LCS	P	0 - 30
LFB	Atrazine Desethyl	8.34	LCS	P	0 - 30
LFB	Azinphos Methyl	5.09	LCS	P	0 - 30
LFB	Bromacil	8.87	LCS	P	0 - 30
LFB	Butylate	11.3	LCS	P	0 - 30
LFB	Carbophenothion	4.00	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	6.01	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	8.67	LCS	P	0 - 30
LFB	Cyanazine	3.99	LCS	P	0 - 30
LFB	Demeton	0.558	LCS	P	0 - 30
LFB	Diazinon	7.17	LCS	P	0 - 30
LFB	Dimethenamid	9.60	LCS	P	0 - 30
LFB	Disulfoton	3.42	LCS	P	0 - 30
LFB	Dithiopyr	7.58	LCS	P	0 - 30
LFB	EPTC	10.4	LCS	P	0 - 30
LFB	Ethion	3.54	LCS	P	0 - 30
LFB	Ethoprop	3.84	LCS	P	0 - 30
LFB	Fenamiphos	3.90	LCS	P	0 - 30
LFB	Fipronil	8.38	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	8.64	LCS	P	0 - 30
LFB	Fipronil Sulfide	4.17	LCS	P	0 - 30
LFB	Fipronil Sulfone	6.74	LCS	P	0 - 30
LFB	Flumioxazin	9.35	LCS	P	0 - 30
LFB	Fonofos	1.18	LCS	P	0 - 30
LFB	Hexazinone	6.20	LCS	P	0 - 30
LFB	Imazalil	20.3	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P386604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Malathion	2.07	LCS	P	0 - 30
LFB	Metalaxyl	6.82	LCS	P	0 - 30
LFB	Metolachlor	7.44	LCS	P	0 - 30
LFB	Metribuzin	6.08	LCS	P	0 - 30
LFB	Mevinphos	9.73	LCS	P	0 - 30
LFB	Molinate	5.31	LCS	P	0 - 30
LFB	Naled	6.41	LCS	P	0 - 30
LFB	Norflurazon	11.6	LCS	P	0 - 30
LFB	Oxadiazon	8.70	LCS	P	0 - 30
LFB	Parathion Ethyl	0.720	LCS	P	0 - 30
LFB	Parathion Methyl	8.51	LCS	P	0 - 30
LFB	Pendimethalin	2.27	LCS	P	0 - 30
LFB	Phorate	4.15	LCS	P	0 - 30
LFB	Prodiamine	10.0	LCS	P	0 - 30
LFB	Prometon	16.6	LCS	P	0 - 30
LFB	Prometryn	11.6	LCS	P	0 - 30
LFB	Pronamide	25.4	LCS	P	0 - 30
LFB	Propiconazole	9.93	LCS	P	0 - 30
LFB	Simazine	14.7	LCS	P	0 - 30
LFB	Sulfentrazone	6.75	LCS	P	0 - 30
LFB	Tebuconazole	7.79	LCS	P	0 - 30
LFB	Terbufos	4.34	LCS	P	0 - 30
LFB	Terbutylazine	5.03	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P386636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193123	Aldrin	2.28	Spike	P	0 - 30
2193123	Alpha-BHC	0.993	Spike	P	0 - 30
2193123	Alpha-Chlordane	1.65	Spike	P	0 - 30
2193123	Beta-BHC	0.855	Spike	P	0 - 30
2193123	Beta-Cyfluthrin	3.29	Spike	P	0 - 30
2193123	Bifenthrin	0.264	Spike	P	0 - 30
2193123	Chlorothalonil	0.572	Spike	P	0 - 30
2193123	Cis-Nonachlor	2.02	Spike	P	0 - 30
2193123	Cypermethrin	0.116	Spike	P	0 - 30
2193123	Dacthal	1.84	Spike	P	0 - 30
2193123	DDD-p,p'	0.405	Spike	P	0 - 30
2193123	DDE-p,p'	0.564	Spike	P	0 - 30
2193123	DDT-p,p'	1.19	Spike	P	0 - 30
2193123	Delta-BHC	0.149	Spike	P	0 - 30
2193123	Deltamethrin	1.12	Spike	P	0 - 30
2193123	Dicofol	1.34	Spike	P	0 - 30
2193123	Dieldrin	0.0275	Spike	P	0 - 30
2193123	Endosulfan I	0.885	Spike	P	0 - 30
2193123	Endosulfan II	7.53	Spike	P	0 - 30
2193123	Endosulfan Sulfate	2.94	Spike	P	0 - 30
2193123	Endrin	0.231	Spike	P	0 - 30
2193123	Endrin Aldehyde	5.62	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P386636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193123	Endrin Ketone	0.111	Spike	P	0 - 30
2193123	Ethalfuralin	3.68	Spike	P	0 - 30
2193123	Gamma-BHC	0.183	Spike	P	0 - 30
2193123	Gamma-Chlordane	1.94	Spike	P	0 - 30
2193123	Heptachlor	1.67	Spike	P	0 - 30
2193123	Heptachlor Epoxide	1.54	Spike	P	0 - 30
2193123	Hexachlorobenzene	1.46	Spike	P	0 - 30
2193123	Lambda-Cyhalothrin	0.748	Spike	P	0 - 30
2193123	Methoxychlor	0.505	Spike	P	0 - 30
2193123	Mirex	0.147	Spike	P	0 - 30
2193123	Permethrin	0.0103	Spike	P	0 - 30
2193123	Phenothrin	0.264	Spike	P	0 - 30
2193123	Prallethrin	5.44	Spike	P	0 - 30
2193123	Trans-Nonachlor	2.77	Spike	P	0 - 30
2193123	Trifluralin	0.739	Spike	P	0 - 30
LFB	Aldrin	0.0131	LCS	P	0 - 30
LFB	Alpha-BHC	1.88	LCS	P	0 - 30
LFB	Alpha-Chlordane	2.39	LCS	P	0 - 30
LFB	Beta-BHC	1.68	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	1.88	LCS	P	0 - 30
LFB	Bifenthrin	0.0773	LCS	P	0 - 30
LFB	Chlorothalonil	7.74	LCS	P	0 - 30
LFB	Cis-Nonachlor	2.09	LCS	P	0 - 30
LFB	Cypermethrin	3.76	LCS	P	0 - 30
LFB	Dacthal	1.56	LCS	P	0 - 30
LFB	DDD-p,p'	1.66	LCS	P	0 - 30
LFB	DDE-p,p'	0.0658	LCS	P	0 - 30
LFB	DDT-p,p'	0.853	LCS	P	0 - 30
LFB	Delta-BHC	5.58	LCS	P	0 - 30
LFB	Deltamethrin	1.77	LCS	P	0 - 30
LFB	Dicofol	3.43	LCS	P	0 - 30
LFB	Dieldrin	1.44	LCS	P	0 - 30
LFB	Endosulfan I	2.54	LCS	P	0 - 30
LFB	Endosulfan II	0.0736	LCS	P	0 - 30
LFB	Endosulfan Sulfate	5.57	LCS	P	0 - 30
LFB	Endrin	7.37	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.91	LCS	P	0 - 30
LFB	Endrin Ketone	0.487	LCS	P	0 - 30
LFB	Ethalfuralin	0.428	LCS	P	0 - 30
LFB	Gamma-BHC	3.34	LCS	P	0 - 30
LFB	Gamma-Chlordane	1.25	LCS	P	0 - 30
LFB	Heptachlor	3.29	LCS	P	0 - 30
LFB	Heptachlor Epoxide	1.00	LCS	P	0 - 30
LFB	Hexachlorobenzene	2.68	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	3.10	LCS	P	0 - 30
LFB	Methoxychlor	1.22	LCS	P	0 - 30
LFB	Mirex	0.493	LCS	P	0 - 30
LFB	Permethrin	0.892	LCS	P	0 - 30
LFB	Phenothrin	0.505	LCS	P	0 - 30
LFB	Prallethrin	2.10	LCS	P	0 - 30
LFB	Trans-Nonachlor	2.06	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P386636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Trifluralin	0.681	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P386636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193099	Chlordane	4.34	Spike	P	0 - 30
2193099	Toxaphene	7.63	Spike	P	0 - 30
LFB	Chlordane	1.31	LCS	P	0 - 30
LFB	Toxaphene	3.59	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P386702

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193053	Acesulfame K	8.11	Spike	P	0 - 30
2193053	AMPA	4.71	Spike	P	0 - 30
2193053	Endothall	9.19	Spike	P	0 - 30
2193053	Glufosinate	4.71	Spike	P	0 - 30
2193053	Glyphosate	2.31	Spike	P	0 - 30
2193053	Sucralose	2.12	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P386810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193261	3-Hydroxycarbofuran	0.765	Spike	P	0 - 30
2193261	Aldicarb	15.6	Spike	P	0 - 30
2193261	Aldicarb Sulfone	1.97	Spike	P	0 - 30
2193261	Aldicarb Sulfoxide	0.774	Spike	P	0 - 30
2193261	Carbaryl	6.63	Spike	P	0 - 30
2193261	Carbofuran	0.538	Spike	P	0 - 30
2193261	Methiocarb	2.70	Spike	P	0 - 30
2193261	Methomyl	1.08	Spike	P	0 - 30
2193261	Oxamyl	1.49	Spike	P	0 - 30
2193261	Propoxur	3.92	Spike	P	0 - 30
2193354	2,4-D	3.11	Spike	P	0 - 30
2193354	Acetaminophen	5.28	Spike	P	0 - 30
2193354	Acetamiprid	1.62	Spike	P	0 - 30
2193354	Afidopyropen	0.775	Spike	P	0 - 30
2193354	Bentazon	4.84	Spike	P	0 - 30
2193354	Benzovindiflupyr	2.40	Spike	P	0 - 30
2193354	Carbamazepine	4.85	Spike	P	0 - 30
2193354	Clothianidin	2.53	Spike	P	0 - 30
2193354	Dinotefuran	4.79	Spike	P	0 - 30
2193354	Diuron	2.22	Spike	P	0 - 30
2193354	Fenuron	5.91	Spike	P	0 - 30
2193354	Fluridone	17.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P386810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193354	Hydrocodone	8.37	Spike	P	0 - 30
2193354	Ibuprofen	15.8	Spike	P	0 - 30
2193354	Imazapyr	7.74	Spike	P	0 - 30
2193354	Imidacloprid	6.78	Spike	P	0 - 30
2193354	Linuron	2.58	Spike	P	0 - 30
2193354	Mandestrobin	7.03	Spike	P	0 - 30
2193354	MCP	0.860	Spike	P	0 - 30
2193354	Naproxen	24.9	Spike	P	0 - 30
2193354	Primidone	3.13	Spike	P	0 - 30
2193354	Pyraclostrobin	1.77	Spike	P	0 - 30
2193354	Thiamethoxam	1.14	Spike	P	0 - 30
2193354	Tolfenpyrad	6.96	Spike	P	0 - 30
2193354	Triclopyr	0.124	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P386764

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193071	Total Alkalinity	0.158	Sample	P	0 - 8.1

Reference Method: SM 2540 D-2011
Batch ID: P387004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193071	TSS	2.35	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P386900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193249	Fluoride	0.499	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P386769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2193072	Organic Carbon	0.864	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2193094
Field Sample ID: 27010114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	45.8	P	30 - 160

Lab Sample ID: 2193095
Field Sample ID: 27010114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.7	P	30 - 160
EPA 8321B	Diuron-d6	58.1	P	30 - 160
EPA 8321B	Endothall-d6	540	F	30 - 160
EPA 8321B	Endothall-d6	540	F	30 - 160
EPA 8321B	Glyphosate 13C 15N	91.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	91.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	88.0	P	30 - 160
EPA 8321B	Primidone-d5	97.1	P	30 - 160
EPA 8321B	Sucralose-d6	73.1	P	30 - 160
EPA 8321B	Sucralose-d6	73.1	P	30 - 160

Lab Sample ID: 2193099
Field Sample ID: 27010114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.4	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	61.2	P	34 - 106
EPA 8276	Decachlorobiphenyl	55.2	P	26 - 97.0
EPA 8276	PCNB	88.4	P	38 - 141

Lab Sample ID: 2193100
Field Sample ID: 27010114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	107	P	72 - 135
EPA 8270E	Terbufos-d10	101	P	57 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A100711

Included Lab Sample IDs: 2193071, 2193074, 2193077

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A100712

Included Lab Sample IDs: 2193073, 2193076, 2193079

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.7	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A100723

Included Lab Sample IDs: 2193095

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A100725

Included Lab Sample IDs: 2193072, 2193075, 2193078

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A100734

Included Lab Sample IDs: 2193071, 2193074, 2193077

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.8	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A100736

Included Lab Sample IDs: 2193072, 2193075, 2193078

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	97.4	P/P	90 - 110
Organic Carbon	99.2	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A100738

Included Lab Sample IDs: 2193095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	72.6	71.0	P/P	60 - 160
Endothall	108	106	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100757

Included Lab Sample IDs: 2193072, 2193075

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100757

Included Lab Sample IDs: 2193072, 2193075

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100778

Included Lab Sample IDs: 2193078

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	98.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A100779

Included Lab Sample IDs: 2193095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	85.0	82.5	P/P	60 - 160
Glufosinate	88.1	90.7	P/P	60 - 160
Glyphosate	117	111	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A100780

Included Lab Sample IDs: 2193072, 2193075, 2193078

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.1	96.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A100781

Included Lab Sample IDs: 2193095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	140	109	P/P	50 - 150
3-Hydroxycarbofuran	111	118	P/P	60 - 150
Acetaminophen	136	142	P/P	60 - 160
Acetamiprid	141	142	P/P	50 - 150
Afidopyropen	101	123	P/P	50 - 150
Aldicarb	74.4	102	P/P	60 - 150
Aldicarb Sulfone	105	114	P/P	50 - 150
Aldicarb Sulfoxide	103	114	P/P	50 - 150
Bentazon	113	125	P/P	50 - 160
Benzovindiflupyr	133	116	P/P	50 - 150
Carbamazepine	132	135	P/P	60 - 150
Carbaryl	123	132	P/P	60 - 150
Carbofuran	132	138	P/P	50 - 150
Clothianidin	131	134	P/P	60 - 150
Dinotefuran	118	124	P/P	50 - 150
Diuron	134	137	P/P	60 - 160
Fenuron	129	127	P/P	60 - 150
Fluridone	102	110	P/P	60 - 160
Hydrocodone	129	132	P/P	60 - 150
Ibuprofen	123	103	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A100781

Included Lab Sample IDs: 2193095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imazapyr	106	102	P/P	50 - 160
Imidacloprid	132	138	P/P	60 - 150
Linuron	135	131	P/P	60 - 150
Mandestrobin	136	128	P/P	50 - 150
MCPP	122	123	P/P	50 - 150
Methiocarb	113	124	P/P	50 - 150
Methomyl	104	113	P/P	50 - 150
Naproxen	103	80.8	P/P	50 - 160
Oxamyl	108	118	P/P	50 - 150
Primidone	133	135	P/P	60 - 150
Propoxur	127	136	P/P	50 - 150
Pyraclostrobin	117	117	P/P	60 - 150
Thiamethoxam	140	137	P/P	50 - 150
Tolfenpyrad	121	117	P/P	60 - 150
Triclopyr	118	111	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A100791

Included Lab Sample IDs: 2193099

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	89.2		P	80 - 120
Toxaphene	107		P	80 - 120

Reference Method: SM 4500 F-C-2011

Run ID: A100801

Included Lab Sample IDs: 2193071, 2193074, 2193077

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

Reference Method: EPA 8270E

Run ID: A100804

Included Lab Sample IDs: 2193099

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.8		P	80 - 120
Alpha-BHC	99.8		P	80 - 120
Alpha-Chlordane	98.1		P	80 - 120
Beta-BHC	84.2		P	80 - 120
Beta-Cyfluthrin	87.6		P	80 - 120
Bifenthrin	97.9		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	96.2		P	80 - 120
Cypermethrin	93.2		P	80 - 120
Dacthal	98.0		P	80 - 120
DDD-p,p'	97.7		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	98.5		P	80 - 120
Deltamethrin	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A100804
Included Lab Sample IDs: 2193099

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dicofol	104		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	98.2		P	80 - 120
Endosulfan II	87.3		P	80 - 120
Endosulfan Sulfate	100		P	80 - 120
Endrin	92.8		P	80 - 120
Endrin Aldehyde	108		P	80 - 120
Endrin Ketone	94.8		P	80 - 120
Ethalfuralin	101		P	80 - 120
Gamma-BHC	93.1		P	80 - 120
Gamma-Chlordane	97.6		P	80 - 120
Heptachlor	98.6		P	80 - 120
Heptachlor Epoxide	98.9		P	80 - 120
Hexachlorobenzene	96.9		P	80 - 120
Lambda-Cyhalothrin	85.8		P	80 - 120
Methoxychlor	99.6		P	80 - 120
Mirex	98.8		P	80 - 120
Permethrin	92.1		P	80 - 120
Phenothrin	90.7		P	80 - 120
Prallethrin	87.8		P	80 - 120
Trans-Nonachlor	98.0		P	80 - 120
Trifluralin	98.2		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A100833
Included Lab Sample IDs: 2193072, 2193075, 2193078

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A100837
Included Lab Sample IDs: 2193101, 2193102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	105	99.0	P/P	90 - 110
Iron	105	109	P/P	90 - 110
Manganese	105	101	P/P	90 - 110
Zinc	107	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A100890
Included Lab Sample IDs: 2193101, 2193102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.3	94.6	P/P	90 - 110
Arsenic	94.7	93.8	P/P	90 - 110
Cadmium	98.1	97.1	P/P	90 - 110
Copper	94.5	92.8	P/P	90 - 110
Lead	97.0	96.5	P/P	90 - 110
Nickel	92.8	92.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A100890

Included Lab Sample IDs: 2193101, 2193102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Selenium	97.0	97.6	P/P	90 - 110
Silver	102	99.8	P/P	90 - 110
Thallium	97.0	95.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A100907

Included Lab Sample IDs: 2193101, 2193102

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

Reference Method: EPA 8270E

Run ID: A100919

Included Lab Sample IDs: 2193100

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.5		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	98.1		P	80 - 120
Atrazine Desethyl	96.1		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	92.9		P	80 - 120
Carbophenothion	100		P	80 - 120
Chlorpyrifos Ethyl	100		P	80 - 120
Chlorpyrifos Methyl	99.4		P	80 - 120
Cyanazine	97.3		P	80 - 120
Demeton	95.1		P	80 - 120
Diazinon	96.8		P	80 - 120
Dimethenamid	98.7		P	80 - 120
Disulfoton	96.3		P	80 - 120
Dithiopyr	99.5		P	80 - 120
EPTC	94.5		P	80 - 120
Ethion	100		P	80 - 120
Ethoprop	99.2		P	80 - 120
Fenamiphos	106		P	80 - 120
Fipronil	99.6		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	97.3		P	80 - 120
Flumioxazin	93.4		P	80 - 120
Fonofos	96.4		P	80 - 120
Hexazinone	107		P	80 - 120
Imazalil	108		P	80 - 120
Malathion	100		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	96.7		P	80 - 120
Metribuzin	97.0		P	80 - 120
Mevinphos	97.1		P	80 - 120
Molinate	94.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A100919

Included Lab Sample IDs: 2193100

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naled	92.8		P	80 - 120
Norflurazon	98.7		P	80 - 120
Oxadiazon	97.7		P	80 - 120
Parathion Ethyl	92.5		P	80 - 120
Parathion Methyl	103		P	80 - 120
Pendimethalin	92.7		P	80 - 120
Phorate	99.8		P	80 - 120
Prodiamine	90.7		P	80 - 120
Prometon	97.1		P	80 - 120
Prometryn	98.1		P	80 - 120
Pronamide	99.4		P	80 - 120
Propiconazole	99.5		P	80 - 120
Simazine	113		P	80 - 120
Sulfentrazone	101		P	80 - 120
Tebuconazole	99.4		P	80 - 120
Terbufos	98.8		P	80 - 120
Terbuthylazine	99.8		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A100925

Included Lab Sample IDs: 2193071, 2193074, 2193077

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	98.8	99.3	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						0.984	
EPA 200.7 Rev. 4.4	Chromium	105		105	99.8			4.99
	Iron	103		109	108			0.143
	Manganese	106		110	108			1.78
	Zinc	109		113	110			3.12
EPA 200.8 Rev. 5.4	Aluminum	91.0		92.3	90.6			1.75
	Antimony	102		101	102			0.862
	Arsenic	95.8		97.3	97.5			0.212
	Cadmium	98.5		99.1	97.7			1.40
	Copper	93.2		97.9	97.6			0.268
	Lead	98.1		97.8	98.2			0.400
	Nickel	91.5		96.0	94.8			1.26
	Selenium	96.2		98.0	96.4			1.66
	Silver	98.8		96.8	97.0			0.141
	Thallium	101		98.9	102			2.73
EPA 300.0 Rev. 2.1	Bromide	94.0		92.0	91.6			0.341
EPA 350.1 Rev. 2.0	Ammonia-N	101		103	101			1.62
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.1		94.7	96.7			1.81
EPA 353.2 Rev. 2.0	NO2NO3-N	102		99.3	99.3			0.0
EPA 365.1 Rev. 2.0	Total-P	107		104	104			0.341
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103		102	104			2.42
EPA 8270E	Acetochlor	85.5	94.2	78.3	71.1	9.71		9.55
	Alachlor	87.7	93.0	71.0	63.6	5.82		11.0
	Aldrin	52.2	52.2	52.1	50.9	0.0131		2.28
	Alpha-BHC	82.2	80.7	78.9	78.1	1.88		0.993
	Alpha-Chlordane	86.1	84.0	80.5	79.2	2.39		1.65
	Ametryn	93.1	116			21.5		3.61
	Atrazine	94.5	104			9.48		22.0
	Atrazine Desethyl	89.9	97.7			8.34		10.8
	Azinphos Methyl	104	109	148	130	5.09		12.8
	Beta-BHC	106	104	88.3	89.1	1.68		0.855
	Beta-Cyfluthrin	75.9	74.5	82.1	79.5	1.88		3.29
	Bifenthrin	86.1	86.0	87.8	87.6	0.0773		0.264
	Bromacil	91.4	99.9	98.3	89.4	8.87		9.47
	Butylate	43.7	49.0	59.5	41.6	11.3		35.5
	Carbophenothion	100	104	89.8	87.1	4.00		3.02
	Chlorothalonil	50.8	47.0	58.0	58.3	7.74		0.572
	Chlorpyrifos Ethyl	90.1	95.7	85.3	88.8	6.01		4.11
	Chlorpyrifos Methyl	81.0	88.3	85.8	85.3	8.67		0.679
	Cis-Nonachlor	91.3	89.4	85.1	83.4	2.09		2.02
	Cyanazine	101	96.6	98.9	90.7	3.99		8.65
	Cypermethrin	94.7	91.2	89.9	89.8	3.76		0.116
	Dacthal	93.5	92.1	86.2	84.6	1.56		1.84
	DDD-p,p'	94.9	93.4	86.9	86.6	1.66		0.405
	DDE-p,p'	83.6	83.6	80.5	80.1	0.0658		0.564
	DDT-p,p'	83.0	82.2	80.2	81.2	0.853		1.19
	Delta-BHC	118	112	111	111	5.58		0.149
	Deltamethrin	103	101	104	105	1.77		1.12
	Demeton	73.9	73.5	86.5	103	0.558		17.0
	Diazinon	87.3	93.8	88.9	82.7	7.17		7.17
	Dicofol	95.6	98.9	94.9	93.7	3.43		1.34
	Dieldrin	88.1	89.4	83.0	83.1	1.44		0.0275
	Dimethenamid	86.4	95.1	81.2	75.4	9.60		7.49
	Disulfoton	74.8	72.3	80.0	73.6	3.42		8.24

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Dithiopyr	91.3	98.5	78.6	72.8	7.58		7.25
	Endosulfan I	86.3	84.2	81.4	82.1	2.54		0.885
	Endosulfan II	103	103	87.0	93.8	0.0736		7.53
	Endosulfan Sulfate	94.2	89.1	86.9	84.4	5.57		2.94
	Endrin	82.7	76.8	81.6	81.7	7.37		0.231
	Endrin Aldehyde	114	112	92.6	87.5	1.91		5.62
	Endrin Ketone	91.5	91.0	83.9	83.8	0.487		0.111
	EPTC	44.3	49.1	51.6	46.7	10.4		9.94
	Ethalfuralin	76.2	76.5	72.4	75.1	0.428		3.68
	Ethion	102	106	88.6	79.4	3.54		11.0
	Ethoprop	75.3	72.4	83.5	80.8	3.84		3.36
	Fenamiphos	96.6	92.9	75.0	76.5	3.90		2.03
	Fipronil	95.8	104	103	95.4	8.38		7.61
	Fipronil Desulfinyl	97.1	106	93.7	86.0	8.64		6.48
	Fipronil Sulfide	98.0	102	96.7	97.5	4.17		0.656
	Fipronil Sulfone	95.3	102	115	110	6.74		1.96
	Flumioxazin	119	130	188	187	9.35		0.601
	Fonofos	70.4	71.3	81.8	77.3	1.18		5.73
	Gamma-BHC	98.3	95.1	87.9	88.0	3.34		0.183
	Gamma-Chlordane	84.3	83.3	78.3	76.8	1.25		1.94
	Heptachlor	72.4	70.1	69.1	67.9	3.29		1.67
	Heptachlor Epoxide	88.4	87.5	81.8	80.5	1.00		1.54
	Hexachlorobenzene	71.3	73.2	66.4	67.3	2.68		1.46
	Hexazinone	102	108	89.1	94.2	6.20		5.03
	Imazalil	130	106	58.0	53.4	20.3		8.20
	Lambda-Cyhalothrin	79.6	77.1	81.9	81.3	3.10		0.748
	Malathion	93.5	91.6	95.2	92.6	2.07		2.72
	Metalaxyl	93.6	100	85.0	77.6	6.82		9.16
	Methoxychlor	79.9	79.0	77.0	76.7	1.22		0.505
	Metolachlor	90.8	97.8			7.44		8.14
	Metribuzin	103	110	118	118	6.08		0.344
	Mevinphos	66.4	60.2	77.4	79.5	9.73		2.67
	Mirex	68.5	68.8	68.4	68.5	0.493		0.147
	Molinate	51.8	54.6	68.4	65.3	5.31		4.73
	Naled	53.3	50.0	64.0	55.9	6.41		13.4
	Norflurazon	93.7	105	78.8	74.1	11.6		6.09
	Oxadiazon	92.7	101	75.6	66.9	8.70		8.55
	Parathion Ethyl	89.8	90.4	86.8	93.8	0.720		7.81
	Parathion Methyl	89.6	97.6	93.4	92.1	8.51		1.40
	Pendimethalin	103	101	109	110	2.27		0.634
	Permethrin	81.9	82.6	82.1	82.1	0.892		0.0103
	Phenothrin	60.1	60.4	61.7	61.9	0.505		0.264
	Phorate	60.1	62.6	89.6	99.9	4.15		11.0
	Prallethrin	57.3	56.1	55.1	52.1	2.10		5.44
	Prodimamine	141	127	134	93.3	10.0		36.2
	Prometon	83.3	98.4	79.6	77.4	16.6		2.78
	Prometryn	93.3	105	89.0	81.8	11.6		8.38
	Pronamide	88.6	114	81.4	85.3	25.4		4.63
	Propiconazole	94.0	104	94.3	81.0	9.93		12.3
	Simazine	105	121			14.7		7.45
	Sulfentrazone	65.0	69.5			6.75		1.33
	Tebuconazole	94.2	102	31.1	41.8	7.79		29.6
	Terbufos	75.2	78.5	90.8	89.1	4.34		1.86
	Terbuthylazine	92.3	97.1	88.9	80.2	5.03		10.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
EPA 8270E	Trans-Nonachlor	86.1	84.4	80.0	77.8	2.06	2.77
	Trifluralin	77.6	78.1	73.8	74.4	0.681	0.739
EPA 8276	Chlordane	92.4	91.2	90.9	94.9	1.31	4.34
	Toxaphene	88.3	85.2	95.1	103	3.59	7.63
EPA 8321B	2,4-D	89.1		88.1	91.3		3.11
	3-Hydroxycarbofuran	83.7		68.4	68.9		0.765
	Acesulfame K	72.0		78.9	85.6		8.11
	Acetaminophen	92.7		77.5	81.7		5.28
	Acetamiprid	75.6		67.1	68.2		1.62
	Afidopyropen	56.9		53.5	53.1		0.775
	Aldicarb	71.3		48.5	56.7		15.6
	Aldicarb Sulfone	97.4		85.0	86.7		1.97
	Aldicarb Sulfoxide	98.1		41.8	41.5		0.774
	AMPA	70.2		92.9	97.4		4.71
	Bentazon	75.0		46.3	39.6		4.84
	Benzovindiflupyr	71.8		64.8	63.2		2.40
	Carbamazepine	64.1		53.9	56.6		4.85
	Carbaryl	68.4		52.7	56.4		6.63
	Carbofuran	55.8		49.4	49.7		0.538
	Clothianidin	89.3		59.9	61.4		2.53
	Dinotefuran	100		78.8	83.2		4.79
	Diuron	66.9		54.1	52.8		2.22
	Endothall	109		113	124		9.19
	Fenuron	105		68.2	72.4		5.91
	Fluridone	77.3		75.4	94.7		17.2
	Glufosinate	95.9		120	115		4.71
	Glyphosate	116		96.1	98.4		2.31
	Hydrocodone	93.4		64.7	70.3		8.37
	Ibuprofen	77.7		71.2	83.5		15.8
	Imazapyr	80.5					7.74
	Imidacloprid	105		109	118		6.78
	Linuron	75.9		67.1	68.9		2.58
	Mandestrobin	77.5		70.5	75.6		7.03
	MCPP	101		110	111		0.860
	Methiocarb	55.8		52.3	53.8		2.70
	Methomyl	94.7		88.0	87.0		1.08
	Naproxen	47.6		63.2	49.2		24.9
	Oxamyl	93.2		80.3	81.5		1.49
	Primidone	87.0		76.8	79.3		3.13
	Propoxur	60.6		49.2	51.2		3.92
	Pyraclostrobin	57.6		60.2	59.1		1.77
	Sucralose	100		101	103		2.12
	Thiamethoxam	90.6		72.7	71.8		1.14
	Tolfenpyrad	44.7		48.2	51.7		6.96
	Triclopyr	63.1		87.4	87.5		0.124
SM 2320 B-2011	Total Alkalinity	101				0.158	
SM 2540 D-2011	TSS					2.35	
SM 4500 F-C-2011	Fluoride	99.6		99.4	100		0.499
SM 5310 B-2011	Organic Carbon	104		101	99.8		0.864

Reference Method Descriptions

Method	Description	Associated Samples
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Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2193071, 2193074, 2193077
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2193101, 2193102
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2193101, 2193102
EPA 300.0 Rev. 2.1	Bromide in aqueous matrices	2193071, 2193074, 2193077
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2193072, 2193075, 2193078
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2193072, 2193075, 2193078
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2193072, 2193075, 2193078
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2193072, 2193075, 2193078
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2193073, 2193076, 2193079
EPA 8270E	Organochlorine pesticides in water matrices by GC/MS-SIM	2193099
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2193100
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2193099
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2193094
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2193095
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2193095
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2193071, 2193074, 2193077
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2193071, 2193074, 2193077
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2193071, 2193074, 2193077
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2193072, 2193075, 2193078

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	08/28/2020			08/28/2020 14:51	Yen Ta	2193071, 2193074, 2193077
EPA 200.7 Rev. 4.4	08/28/2020	09/03/2020 15:00	Elliott D. Healy	09/04/2020 19:16	Betina Topolski	2193101
	08/28/2020	09/03/2020 15:00	Elliott D. Healy	09/04/2020 19:24	Betina Topolski	2193102
EPA 200.8 Rev. 5.4	08/28/2020	09/03/2020 15:00	Elliott D. Healy	09/09/2020 15:17	Alexander Thompson	2193101
	08/28/2020	09/03/2020 15:00	Elliott D. Healy	09/09/2020 15:23	Alexander Thompson	2193102
	08/28/2020	09/03/2020 15:00	Elliott D. Healy	09/10/2020 13:53	Alexander Thompson	2193101
	08/28/2020	09/03/2020 15:00	Elliott D. Healy	09/10/2020 13:57	Alexander Thompson	2193102
EPA 300.0 Rev. 2.1	08/28/2020			09/10/2020 04:04	Lipi Saha	2193071
	08/28/2020			09/10/2020 04:21	Lipi Saha	2193074
	08/28/2020			09/10/2020 04:38	Lipi Saha	2193077
EPA 350.1 Rev. 2.0	08/28/2020			09/05/2020 17:21	Ping Hua	2193072
	08/28/2020			09/05/2020 17:22	Ping Hua	2193075
	08/28/2020			09/05/2020 17:24	Ping Hua	2193078
EPA 351.2 Rev. 2.0	08/28/2020	09/01/2020 11:35	Sima Feizi	09/02/2020 11:32	Virginia P. Brown	2193072
	08/28/2020	09/01/2020 11:35	Sima Feizi	09/02/2020 11:34	Virginia P. Brown	2193075
	08/28/2020	09/01/2020 11:35	Sima Feizi	09/02/2020 11:36	Virginia P. Brown	2193078
EPA 353.2 Rev. 2.0	08/28/2020			08/31/2020 10:37	Beverly Y. Sanders	2193072
	08/28/2020			08/31/2020 10:43	Beverly Y. Sanders	2193075
	08/28/2020			08/31/2020 10:44	Beverly Y. Sanders	2193078
EPA 365.1 Rev. 2.0	08/28/2020	08/31/2020 15:00	Yen Ta	09/01/2020 13:00	Benjamin T. Nordmann	2193072
	08/28/2020	08/31/2020 15:00	Yen Ta	09/01/2020 13:03	Benjamin T. Nordmann	2193075
	08/28/2020	08/31/2020 15:00	Yen Ta	09/02/2020 11:56	Lipi Saha	2193078
EPA 365.1 Rev. 2.0 dissolved	08/28/2020			08/28/2020 15:46	Samantha Davila	2193073
	08/28/2020			08/28/2020 15:47	Samantha Davila	2193076
	08/28/2020			08/28/2020 15:48	Samantha Davila	2193079
EPA 8270E	08/28/2020	08/28/2020 13:30	Fe-Val Siddell	09/02/2020 18:48	Vandana T. Nagar	2193100
	08/28/2020	08/31/2020 10:30	Rasheda Ghaffari	09/03/2020 02:16	Michael Poppell	2193099
EPA 8276	08/28/2020	08/31/2020 10:30	Rasheda Ghaffari	09/02/2020 08:43	Arthur Maknenko	2193099
EPA 8321B	08/28/2020	08/28/2020 16:15	Rebecca Ware	08/28/2020 18:17	Rebecca Ware	2193095
	08/28/2020	08/28/2020 16:15	Rebecca Ware	08/31/2020 22:31	Rebecca Ware	2193095
	08/28/2020	08/28/2020 16:15	Rebecca Ware	09/01/2020 20:54	Rebecca Ware	2193095
	08/28/2020	09/02/2020 14:30	Hoor Shaik	09/02/2020 17:33	Mohammad Ghaffari	2193094
	08/28/2020	09/02/2020 14:30	Hoor Shaik	09/02/2020 23:20	Mohammad Ghaffari	2193095
SM 2320 B-2011	08/28/2020			08/31/2020 22:20	Dale L. Simmons	2193071
	08/28/2020			08/31/2020 22:33	Dale L. Simmons	2193074
	08/28/2020			08/31/2020 22:45	Dale L. Simmons	2193077
SM 2540 D-2011	08/28/2020			08/31/2020 14:39	Yijie Li	2193071, 2193074, 2193077
SM 4500 F-C-2011	08/28/2020			09/02/2020 22:37	Dale L. Simmons	2193071
	08/28/2020			09/02/2020 22:42	Dale L. Simmons	2193074
	08/28/2020			09/02/2020 22:48	Dale L. Simmons	2193077

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	08/28/2020			08/31/2020 20:47	David Boose	2193072
	08/28/2020			09/01/2020 01:09	David Boose	2193075
	08/28/2020			09/01/2020 01:21	David Boose	2193078