

Chemical Analysis Report

SE-DIST-2020-07-29-01

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

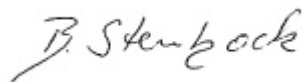
Event Description: **SMP- North Canal**
Request ID: **RQ-2020-07-27-14**
Customer: **SE-DIST**
Project ID: **SMP**

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 20-AUG-2020 14:38



NON-CONFORMANCE REPORT INCLUDED

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: North Canal @US1

Collection Date/Time: 07/28/2020 12:00

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186808	EPA 180.1 Rev. 2.0	Turbidity	5.0	AY	NTU	P385365	
	EPA 300.0 Rev. 2.1	Chloride	190		mg Cl/L	P385626	
		Sulfate	55	Y	mg SO4/L	P385630	
	SM 2120 B-2011	Color (true)	86	AY	PCU	P385355	
	SM 2320 B-2011	Total Alkalinity	143	Y	mg CaCO3/L	P385441	
	SM 2540 C-2011	TDS	596	Y	mg/L	P385782	
	SM 2540 D-2011	TSS	6	IY	mg/L	P385784	
	SM 4500 F-C-2011	Fluoride	0.31		mg F/L	P385444	
2186809	EPA 350.1 Rev. 2.0	Ammonia-N	0.062	Y	mg N/L	P385478	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.78	YJ	mg N/L	P385417	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.20	Y	mg N/L	P385369	
	EPA 365.1 Rev. 2.0	Total-P	0.16	Y	mg P/L	P385506	
	SM 5310 B-2011	Organic Carbon	14	Y	mg C/L	P385450	
2186810	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10	Y	mg P/L	P385326	
2186816	EPA 8321B	Aldicarb	0.020	UY	ug/L	P385439	
		Aldicarb Sulfone	0.0020	UY	ug/L	P385439	
		Aldicarb Sulfoxide	0.0020	UY	ug/L	P385439	MS, RPD
		Carbaryl	0.0020	UY	ug/L	P385439	
		Carbofuran	0.0020	UY	ug/L	P385439	
		3-Hydroxycarbofuran	0.0020	UY	ug/L	P385439	
		Methiocarb	0.0020	UY	ug/L	P385439	
		Methomyl	0.0020	UY	ug/L	P385439	
		Oxamyl	0.0020	UY	ug/L	P385439	MS
		Propoxur	0.0020	UY	ug/L	P385439	
2186817		2,4-D	0.20	Y	ug/L	P385308	
		Acesulfame K**	0.10	UY	ug/L	P385298	
		AMPA**	1.5	Y	ug/L	P385298	
		Sucralose**	1.4	Y	ug/L	P385298	
		Acetaminophen**	0.0080	UY	ug/L	P385308	
		Acetamiprid**	0.0020	UY	ug/L	P385308	
		Endothall**	0.25	UY	ug/L	P385298	
		Glufosinate**	0.10	UY	ug/L	P385298	
		Glyphosate**	3.8	Y	ug/L	P385298	
		Afidopyrophen**	0.0020	UY	ug/L	P385308	
		Bentazon	0.16	Y	ug/L	P385308	
		Benzovindiflupyr**	0.0020	UY	ug/L	P385308	
		Carbamazepine**	0.0019	IY	ug/L	P385308	
		Clothianidin**	0.0082	Y	ug/L	P385308	
		Dinotefuran**	0.0026	IY	ug/L	P385308	
		Diuron	0.0020	UY	ug/L	P385308	
		Fenuron	0.016	UY	ug/L	P385308	
		Fluridone**	0.011	Y	ug/L	P385308	
		Imazapyr**	0.069	Y	ug/L	P385308	

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186817	EPA 8321B	Hydrocodone**	0.0020	UY	ug/L	P385308	
		Ibuprofen**	0.020	UY	ug/L	P385308	
		Imidacloprid	0.052	Y	ug/L	P385308	
		Linuron	0.0040	UY	ug/L	P385308	
		Mandestrobin**	0.0020	UY	ug/L	P385308	
		MCP	0.0020	UY	ug/L	P385308	
		Naproxen**	0.0080	UY	ug/L	P385308	
		Primidone**	0.0098	IY	ug/L	P385308	
		Pyraclostrobin**	0.0020	UY	ug/L	P385308	
		Thiamethoxam**	0.017	Y	ug/L	P385308	
		Tolfenpyrad**	0.0020	UY	ug/L	P385308	
		Triclopyr**	0.0040	UY	ug/L	P385308	
2186820	EPA 8270E	Aldrin	4.2	UY	ng/L	P385297	
		Alpha-BHC	2.1	UY	ng/L	P385297	
		Alpha-Chlordane	1.1	UY	ng/L	P385297	
		Beta-BHC	8.5	UY	ng/L	P385297	
		Beta-Cyfluthrin**	16	UY	ng/L	P385297	
		Bifenthrin**	4.2	UY	ng/L	P385297	
		Delta-BHC	8.5	UY	ng/L	P385297	
		Gamma-BHC	8.5	UY	ng/L	P385297	
		Chlorothalonil	2.1	UY	ng/L	P385297	
		Cis-Nonachlor**	1.1	UY	ng/L	P385297	
		Cypermethrin	21	UY	ng/L	P385297	
		Dacthal**	1.1	UY	ng/L	P385297	
		DDD-p,p'	5.3	UY	ng/L	P385297	
		DDE-p,p'	5.3	UY	ng/L	P385297	
		DDT-p,p'	6.4	UY	ng/L	P385297	
		Dicofol	32	UY	ng/L	P385297	
		Dieldrin	4.2	UY	ng/L	P385297	
		Endosulfan I	4.2	UY	ng/L	P385297	
		Endosulfan II	4.2	UY	ng/L	P385297	
		Endosulfan Sulfate	2.1	UY	ng/L	P385297	
		Endrin	2.1	UY	ng/L	P385297	
		Endrin Aldehyde	2.1	UY	ng/L	P385297	
		Endrin Ketone	2.1	UY	ng/L	P385297	
		Ethalfuralin**	3.2	UY	ng/L	P385297	
		Gamma-Chlordane	1.1	UY	ng/L	P385297	
		Heptachlor	1.6	UY	ng/L	P385297	
		Heptachlor Epoxide	2.1	UY	ng/L	P385297	
		Hexachlorobenzene	2.1	UY	ng/L	P385297	MS
		Lambda-Cyhalothrin**	16	UY	ng/L	P385297	
		Methoxychlor	4.2	UY	ng/L	P385297	
		Mirex	2.1	UY	ng/L	P385297	
		Permethrin	11	UY	ng/L	P385297	
		Phenothrin**	32	UY	ng/L	P385297	

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186820	EPA 8270E	Prallethrin**	26	UY	ng/L	P385297	
		Trans-Nonachlor**	1.1	UY	ng/L	P385297	
		Trifluralin	2.6	UY	ng/L	P385297	
		Chlordane	5.3	UY	ng/L	P385297	
		Toxaphene	32	UY	ng/L	P385297	
2186821	EPA 8270E	Acetochlor	0.24	UY	ng/L	P385489	
		Alachlor	0.24	UY	ng/L	P385489	
		Ametryn	0.92	IY	ng/L	P385489	
		Atrazine	38	Y	ng/L	P385489	
		Atrazine Desethyl	8.9	Y	ng/L	P385489	
		Azinphos Methyl	1.9	UY	ng/L	P385489	MS, RPD
		Bromacil	27	Y	ng/L	P385489	
		Butylate	0.39	UY	ng/L	P385489	
		Carbophenothion	0.49	UY	ng/L	P385489	
		Chlorpyrifos Ethyl	0.24	UY	ng/L	P385489	
		Chlorpyrifos Methyl	0.049	UY	ng/L	P385489	
		Cyanazine	3.2	UY	ng/L	P385489	
		Demeton	1.5	UY	ng/L	P385489	
		Diazinon	0.12	UY	ng/L	P385489	
		Dimethenamid**	0.097	UY	ng/L	P385489	
		Disulfoton	0.49	UY	ng/L	P385489	
		Dithiopyr**	0.37	IY	ng/L	P385489	
		EPTC	1.2	UY	ng/L	P385489	
		Ethion	0.15	UY	ng/L	P385489	
		Ethoprop	0.097	UY	ng/L	P385489	
		Fenamiphos	0.49	UY	ng/L	P385489	
		Fipronil	0.44	IY	ng/L	P385489	
		Fipronil Desulfinyl**	0.70	Y	ng/L	P385489	
		Fipronil Sulfide	0.37	IY	ng/L	P385489	
		Fipronil Sulfone	0.98	Y	ng/L	P385489	
		Flumioxazin**	1.7	UY	ng/L	P385489	
		Fonofos	0.19	UY	ng/L	P385489	
		Hexazinone	1.7	IY	ng/L	P385489	
		Imazalil**	0.73	UYJ	ng/L	P385489	LCS, MS, RPD
		Malathion	0.34	UY	ng/L	P385489	
		Metaxyl	2.6	IY	ng/L	P385489	
		Metolachlor	19	Y	ng/L	P385489	
		Metribuzin	3.7	IY	ng/L	P385489	
		Mevinphos	0.49	UY	ng/L	P385489	
		Molinate	0.29	UY	ng/L	P385489	
		Naled**	1.5	UY	ng/L	P385489	
		Norflurazon	30	Y	ng/L	P385489	
		Oxadiazon	5.7	Y	ng/L	P385489	
		Parathion Ethyl	0.24	UY	ng/L	P385489	

Field ID: G5SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186821	EPA 8270E	Parathion Methyl	0.54	UY	ng/L	P385489	
		Pendimethalin	0.97	UY	ng/L	P385489	
		Phorate	0.24	UY	ng/L	P385489	
		Prodiamine**	1.4	Y	ng/L	P385489	
		Prometon	0.88	UY	ng/L	P385489	
		Prometryn	0.19	UY	ng/L	P385489	
		Pronamide**	0.15	UY	ng/L	P385489	
		Propiconazole**	0.69	IY	ng/L	P385489	
		Simazine	0.49	UY	ng/L	P385489	
		Sulfentrazone**	84	Y	ng/L	P385489	
		Tebuconazole**	0.49	UY	ng/L	P385489	
		Terbufos	0.097	UY	ng/L	P385489	
		Terbutylazine	0.41	UY	ng/L	P385489	
2186824	EPA 200.7 Rev. 4.4	Barium	37.0		ug/L	P385397	
		Calcium	70.9		mg/L	P385397	
		Iron	850		ug/L	P385397	
		Magnesium	21.2		mg/L	P385397	
		Potassium	6.6		mg/L	P385397	
		Sodium	96.0		mg/L	P385397	
		Zinc	5.0	U	ug/L	P385397	
	EPA 200.8 Rev. 5.4	Aluminum	146		ug/L	P385397	
		Antimony	0.11	I	ug/L	P385397	
		Arsenic	1.17		ug/L	P385397	
		Boron**	85.6		ug/L	P385397	
		Cadmium	0.020	U	ug/L	P385397	
		Chromium	0.74	I	ug/L	P385397	
		Copper	3.33		ug/L	P385397	
		Lead	0.23	I	ug/L	P385397	
		Nickel	0.50	U	ug/L	P385397	
		Selenium	0.20	U	ug/L	P385397	
	SM 2340B	Silver	0.010	U	ug/L	P385397	
		Thallium	0.10	U	ug/L	P385397	
		Hardness	264		mg/L	P385397	

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
EPA 180.1 Rev. 2.0:	Sample temperature was outside the acceptable range when received at the laboratory.						
EPA 300.0 Rev. 2.1:	Sulfate: Sample temperature was outside the acceptable range when received at the laboratory.						
SM 2120 B-2011:	Sample temperature was outside the acceptable range when received at the laboratory.						
SM 2320 B-2011:	Sample temperature was outside the acceptable range when received at the laboratory.						
SM 2540 C-2011:	Sample temperature was outside the acceptable range when received at the laboratory.						
SM 2540 D-2011:	Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample temperature was outside the acceptable range when received at the laboratory.						
EPA 350.1 Rev. 2.0:	Sample temperature was outside the acceptable range when received at the laboratory.						
EPA 351.2 Rev. 2.0:	Sample temperature was outside the acceptable range when received at the laboratory. Refer to the Lab Analysis Report for an explanation of QC Codes.						
EPA 353.2 Rev. 2.0:	Sample temperature was outside the acceptable range when received at the laboratory.						
EPA 365.1 Rev. 2.0:	Total-P: Sample temperature was outside the acceptable range when received at the laboratory.						
SM 5310 B-2011:	Sample temperature was outside the acceptable range when received at the laboratory.						
EPA 365.1 Rev. 2.0 dissolved:	O-Phosphate-P: Sample temperature was outside the acceptable range when received at the laboratory.						
EPA 8321B:	Y - Sample was received with inadequate sample preservation; see NCR report.						
EPA 8321B:	MS accuracy for 2,4-D and bentazon could not be assessed due to high concentration of parameter in the spiked sample. Y - Sample was received with inadequate sample preservation; see NCR report.						
EPA 8270E:	Y - Due to improper preservation; see NCR report.						
EPA 8276:	Y - Due to improper preservation; see NCR report.						
EPA 8270E:	MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Y - Due to improper preservation; see NCR report. Refer to the Lab Analysis Report for an explanation of QC Codes.						

Sample Location: North Canal @US1

Collection Date/Time: 07/28/2020 12:15

Field ID: Fieldblank_280720

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186811	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P385365	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P385626	
		Sulfate	0.20	U	mg SO4/L	P385630	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P385355	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P385441	
	SM 2540 C-2011	TDS	15	U	mg/L	P385782	
	SM 2540 D-2011	TSS	2	U	mg/L	P385784	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P385444	
2186812	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P385478	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P385417	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P385368	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P385506	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P385450	
2186813	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P385326	
2186818	EPA 8321B	Aldicarb	0.020	U	ug/L	P385439	
		Aldicarb Sulfone	0.0020	U	ug/L	P385439	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P385439	MS, RPD
		Carbaryl	0.0020	U	ug/L	P385439	
		Carbofuran	0.0020	U	ug/L	P385439	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P385439	
		Methiocarb	0.0020	U	ug/L	P385439	
		Methomyl	0.0020	U	ug/L	P385439	
		Oxamyl	0.0020	U	ug/L	P385439	MS
		Propoxur	0.0020	U	ug/L	P385439	
2186819		2,4-D	0.0020	U	ug/L	P385308	
		Acesulfame K**	0.10	U	ug/L	P385298	
		AMPA**	0.10	U	ug/L	P385298	
		Sucralose**	0.010	U	ug/L	P385298	
		Acetaminophen**	0.0080	U	ug/L	P385308	
		Acetamiprid**	0.0020	U	ug/L	P385308	
		Endothall**	0.25	U	ug/L	P385298	
		Glufosinate**	0.10	U	ug/L	P385298	
		Glyphosate**	0.10	U	ug/L	P385298	
		Afidopyropen**	0.0020	U	ug/L	P385308	
		Bentazon	8.0E-04	U	ug/L	P385308	
		Benzovindiflupyr**	0.0020	U	ug/L	P385308	
		Carbamazepine**	8.0E-04	U	ug/L	P385308	
		Clothianidin**	0.0020	U	ug/L	P385308	
		Dinotefuran**	0.0020	U	ug/L	P385308	
		Diuron	0.0020	U	ug/L	P385308	
		Fenuron	0.016	U	ug/L	P385308	
		Fluridone**	8.0E-04	U	ug/L	P385308	
		Imazapyr**	0.0040	U	ug/L	P385308	

Field ID: Fieldblank_280720

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186819	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P385308	
		Ibuprofen**	0.020	U	ug/L	P385308	
		Imidacloprid	0.0020	U	ug/L	P385308	
		Linuron	0.0040	U	ug/L	P385308	
		Mandestrobin**	0.0020	U	ug/L	P385308	
		MCP	0.0020	U	ug/L	P385308	
		Naproxen**	0.0080	U	ug/L	P385308	
		Primidone**	0.0040	U	ug/L	P385308	
		Pyraclostrobin**	0.0020	U	ug/L	P385308	
		Thiamethoxam**	0.0020	U	ug/L	P385308	
		Tolfenpyrad**	0.0020	U	ug/L	P385308	
		Triclopyr**	0.0040	U	ug/L	P385308	
2186822	EPA 8270E	Aldrin	4.3	U	ng/L	P385297	
		Alpha-BHC	2.1	U	ng/L	P385297	
		Alpha-Chlordane	1.1	U	ng/L	P385297	
		Beta-BHC	8.5	U	ng/L	P385297	
		Beta-Cyfluthrin**	16	U	ng/L	P385297	
		Bifenthrin**	4.3	U	ng/L	P385297	
		Delta-BHC	8.5	U	ng/L	P385297	
		Gamma-BHC	8.5	U	ng/L	P385297	
		Chlorothalonil	2.1	U	ng/L	P385297	
		Cis-Nonachlor**	1.1	U	ng/L	P385297	
		Cypermethrin	21	U	ng/L	P385297	
		Dacthal**	1.1	U	ng/L	P385297	
		DDD-p,p'	5.3	U	ng/L	P385297	
		DDE-p,p'	5.3	U	ng/L	P385297	
		DDT-p,p'	6.4	U	ng/L	P385297	
		Dicofol	32	U	ng/L	P385297	
		Dieldrin	4.3	U	ng/L	P385297	
		Endosulfan I	4.3	U	ng/L	P385297	
		Endosulfan II	4.3	U	ng/L	P385297	
		Endosulfan Sulfate	2.1	U	ng/L	P385297	
		Endrin	2.1	U	ng/L	P385297	
		Endrin Aldehyde	2.1	U	ng/L	P385297	
		Endrin Ketone	2.1	U	ng/L	P385297	
		Ethalfuralin**	3.2	U	ng/L	P385297	
		Gamma-Chlordane	1.1	U	ng/L	P385297	
		Heptachlor	1.6	U	ng/L	P385297	
		Heptachlor Epoxide	2.1	U	ng/L	P385297	
		Hexachlorobenzene	2.1	U	ng/L	P385297	MS
		Lambda-Cyhalothrin**	16	U	ng/L	P385297	
		Methoxychlor	4.3	U	ng/L	P385297	
		Mirex	2.1	U	ng/L	P385297	
		Permethrin	11	U	ng/L	P385297	
		Phenothrin**	32	U	ng/L	P385297	

Field ID: Fieldblank_280720

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186822	EPA 8270E	Prallethrin**	27	U	ng/L	P385297	
		Trans-Nonachlor**	1.1	U	ng/L	P385297	
		Trifluralin	2.7	U	ng/L	P385297	
		Chlordane	5.3	U	ng/L	P385297	
		Toxaphene	32	U	ng/L	P385297	
2186823	EPA 8270E	Acetochlor	0.25	U	ng/L	P385489	
		Alachlor	0.25	U	ng/L	P385489	
		Ametryn	0.60	U	ng/L	P385489	
		Atrazine	0.25	U	ng/L	P385489	
		Atrazine Desethyl	1.5	U	ng/L	P385489	
		Azinphos Methyl	2.0	U	ng/L	P385489	MS, RPD
		Bromacil	0.50	U	ng/L	P385489	
		Butylate	0.40	U	ng/L	P385489	
		Carbophenothion	0.50	U	ng/L	P385489	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P385489	
		Chlorpyrifos Methyl	0.050	U	ng/L	P385489	
		Cyanazine	3.2	U	ng/L	P385489	
		Demeton	1.5	U	ng/L	P385489	
		Diazinon	0.12	U	ng/L	P385489	
		Dimethenamid**	0.10	U	ng/L	P385489	
		Disulfoton	0.50	U	ng/L	P385489	
		Dithiopyr**	0.10	U	ng/L	P385489	
		EPTC	1.2	U	ng/L	P385489	
		Ethion	0.15	U	ng/L	P385489	
		Ethoprop	0.10	U	ng/L	P385489	
		Fenamiphos	0.50	U	ng/L	P385489	
		Fipronil	0.25	U	ng/L	P385489	
		Fipronil Desulfinyl**	0.12	U	ng/L	P385489	
		Fipronil Sulfide	0.15	U	ng/L	P385489	
		Fipronil Sulfone	0.15	U	ng/L	P385489	
		Flumioxazin**	1.7	U	ng/L	P385489	
		Fonofos	0.20	U	ng/L	P385489	
		Hexazinone	0.50	U	ng/L	P385489	
		Imazalil**	0.75	UJ	ng/L	P385489	LCS, MS, RPD
		Malathion	0.35	U	ng/L	P385489	
		Metalaxyl	0.75	U	ng/L	P385489	
		Metolachlor	0.50	U	ng/L	P385489	
		Metribuzin	3.2	U	ng/L	P385489	
		Mevinphos	0.50	U	ng/L	P385489	
		Molinate	0.30	U	ng/L	P385489	
		Naled**	1.5	U	ng/L	P385489	
		Norflurazon	0.50	U	ng/L	P385489	
		Oxadiazon	0.10	U	ng/L	P385489	
		Parathion Ethyl	0.25	U	ng/L	P385489	

Field ID: Fieldblank_280720

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2186823	EPA 8270E	Parathion Methyl	0.55	U	ng/L	P385489	
		Pendimethalin	1.0	U	ng/L	P385489	
		Phorate	0.25	U	ng/L	P385489	
		Prodiamine**	0.17	U	ng/L	P385489	
		Prometon	0.90	U	ng/L	P385489	
		Prometryn	0.20	U	ng/L	P385489	
		Pronamide**	0.15	U	ng/L	P385489	
		Propiconazole**	0.50	U	ng/L	P385489	
		Simazine	0.50	U	ng/L	P385489	
		Sulfentrazone**	0.50	U	ng/L	P385489	
		Tebuconazole**	0.50	U	ng/L	P385489	
		Terbufos	0.10	U	ng/L	P385489	
		Terbuthylazine	0.42	U	ng/L	P385489	
2186825	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P385397	
		Calcium	0.075	U	mg/L	P385397	
		Iron	30	U	ug/L	P385397	
		Magnesium	0.040	U	mg/L	P385397	
		Potassium	0.30	U	mg/L	P385397	
		Sodium	0.50	U	mg/L	P385397	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P385397	
		Aluminum	5.0	U	ug/L	P385397	
		Antimony	0.050	U	ug/L	P385397	
		Arsenic	0.050	U	ug/L	P385397	
		Boron**	5.0	I	ug/L	P385397	
		Cadmium	0.020	U	ug/L	P385397	
		Chromium	0.40	U	ug/L	P385397	
		Copper	0.40	U	ug/L	P385397	
		Lead	0.20	U	ug/L	P385397	
		Nickel	0.50	U	ug/L	P385397	
		Selenium	0.20	U	ug/L	P385397	
		Silver	0.010	U	ug/L	P385397	
		Thallium	0.10	U	ug/L	P385397	
		Hardness	0.35	U	mg/L	P385397	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

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.

EPA 200.8 Rev. 5.4: The boron result was confirmed in the undigested sample on 08/06/2020.

Non-Conformance Report

NCR ID: 8362

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
SE-DIST-2020-07-29-01	TLH-2020-07-29-03	2186808	
SE-DIST-2020-07-29-01	TLH-2020-07-29-03	2186809	
SE-DIST-2020-07-29-01	TLH-2020-07-29-03	2186810	
SE-DIST-2020-07-29-01	TLH-2020-07-29-06	2186816	
SE-DIST-2020-07-29-01	TLH-2020-07-29-06	2186817	
SE-DIST-2020-07-29-01	TLH-2020-07-29-07	2186820	
SE-DIST-2020-07-29-01	TLH-2020-07-29-07	2186821	

NCR Type: SHIPPING/RECEIVING

NCR Category: Preservation Not Intact

Observation: Samples received outside the acceptable temperature range.

Resolution: Data will be qualified as appropriate.

Authorized by/Date: Kerry Tate, Ph.D. 8/20/2020

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

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P385365

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P385397

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P385397

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	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: P385626

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385630

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385478

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385417

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385368

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385369

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385506

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385326

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

Reference Method: EPA 8270E
Batch ID: P385297

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P385297

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

Reference Method: EPA 8270E
Batch ID: P385489

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P385489

Component	Result	Code	Units
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
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
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P385297

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

Reference Method: EPA 8321B
Batch ID: P385298

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: P385308

Component	Result	Code	Units
2,4-D	0.0020	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P385308

Component	Result	Code	Units
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
Naproxen	0.0080	U	ug/L
Primidone	0.0040	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: EPA 8321B
Batch ID: P385439

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

Reference Method: SM 2120 B-2011
Batch ID: P385355

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P385441

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P385782

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P385784

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P385444

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P385450

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: P385397

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	98.0		P	85 - 115
Calcium	101		P	85 - 115
Iron	103		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	101		P	85 - 115
Sodium	101		P	85 - 115
Zinc	98.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P385397

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	91.5		P	85 - 115
Antimony	93.9		P	85 - 115
Arsenic	95.0		P	85 - 115
Boron	99.9		P	85 - 115
Cadmium	93.0		P	85 - 115
Chromium	95.2		P	85 - 115
Copper	102		P	85 - 115
Lead	96.2		P	85 - 115
Nickel	101		P	85 - 115
Selenium	89.7		P	85 - 115
Silver	106		P	85 - 115
Thallium	95.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385626

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385630

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385478

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385417

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385368

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385369

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: P385506

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.1		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P385297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.6	49.9	P/P	20 - 87.0
Alpha-BHC	91.2	91.2	P/P	65 - 142
Alpha-Chlordane	80.1	78.5	P/P	58 - 106
Beta-BHC	98.6	108	P/P	65 - 179
Beta-Cyfluthrin	88.4	77.2	P/P	39 - 153
Bifenthrin	63.2	62.1	P/P	38 - 128
Chlorothalonil	99.5	78.5	P/P	20 - 214
Cis-Nonachlor	79.9	77.7	P/P	56 - 113
Cypermethrin	70.7	65.2	P/P	37 - 130
Dacthal	91.6	90.3	P/P	75 - 109
DDD-p,p'	88.9	86.9	P/P	66 - 119
DDE-p,p'	74.3	66.0	P/P	53 - 108
DDT-p,p'	78.1	77.0	P/P	57 - 133
Delta-BHC	126	128	P/P	68 - 187
Dicofol	107	98.5	P/P	66 - 123
Dieldrin	87.5	87.3	P/P	65 - 111
Endosulfan I	87.1	87.9	P/P	65 - 115
Endosulfan II	104	98.2	P/P	68 - 133
Endosulfan Sulfate	90.9	87.0	P/P	62 - 127
Endrin	92.6	86.5	P/P	64 - 122
Endrin Aldehyde	76.3	86.1	P/P	61 - 132
Endrin Ketone	94.3	91.1	P/P	66 - 120
Ethalfuralin	69.9	68.9	P/P	57 - 127
Gamma-BHC	90.4	95.8	P/P	71 - 158
Gamma-Chlordane	75.8	74.4	P/P	53 - 106
Heptachlor	61.1	62.0	P/P	45 - 96.0
Heptachlor Epoxide	84.2	83.5	P/P	64 - 109
Hexachlorobenzene	61.8	59.3	P/P	46 - 103

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P385297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lambda-Cyhalothrin	80.8	70.0	P/P	38 - 145
Methoxychlor	86.1	82.7	P/P	69 - 149
Mirex	54.9	54.2	P/P	31 - 90.0
Permethrin	63.2	59.9	P/P	41 - 108
Phenothrin	49.3	47.6	P/P	22 - 91.0
Prallethrin	77.0	73.9	P/P	32 - 92.0
Trans-Nonachlor	71.7	71.3	P/P	50 - 107
Trifluralin	68.9	67.3	P/P	58 - 119

Reference Method: EPA 8270E
Batch ID: P385489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	113	108	P/P	71 - 122
Alachlor	109	106	P/P	70 - 121
Ametryn	117	117	P/P	49 - 137
Atrazine	111	111	P/P	76 - 125
Atrazine Desethyl	122	121	P/P	31 - 144
Azinphos Methyl	148	139	P/P	67 - 150
Bromacil	91.8	95.6	P/P	36 - 121
Butylate	58.0	57.1	P/P	33 - 88.0
Carbophenothion	93.8	99.4	P/P	50 - 150
Chlorpyrifos Ethyl	97.9	98.4	P/P	73 - 117
Chlorpyrifos Methyl	98.7	99.3	P/P	68 - 121
Cyanazine	171	165	P/P	20 - 250
Demeton	89.6	89.3	P/P	30 - 123
Diazinon	113	110	P/P	70 - 128
Dimethenamid	109	104	P/P	66 - 122
Disulfoton	92.3	94.7	P/P	46 - 124
Dithiopyr	104	103	P/P	69 - 122
EPTC	55.6	57.8	P/P	31 - 90.0
Ethion	85.3	88.2	P/P	45 - 135
Ethoprop	94.8	96.1	P/P	59 - 118
Fenamiphos	95.5	98.1	P/P	30 - 136
Fipronil	113	115	P/P	57 - 127
Fipronil Desulfinyl	110	113	P/P	51 - 122
Fipronil Sulfide	91.7	97.0	P/P	57 - 119
Fipronil Sulfone	87.9	94.7	P/P	51 - 119
Flumioxazin	127	126	P/P	70 - 200
Fonofos	92.2	89.4	P/P	60 - 120
Hexazinone	106	107	P/P	57 - 142
Imazalil	153	112	F/P	50 - 150
Malathion	108	114	P/P	67 - 128
Metalaxyl	109	107	P/P	21 - 148
Metolachlor	104	102	P/P	70 - 120
Metribuzin	165	158	P/P	20 - 253
Mevinphos	92.0	91.6	P/P	47 - 116
Molinate	71.1	72.1	P/P	41 - 99.0
Naled	72.3	78.5	P/P	40 - 130
Norflurazon	108	110	P/P	54 - 127
Oxadiazon	96.2	98.2	P/P	65 - 122
Parathion Ethyl	92.5	97.6	P/P	71 - 113

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P385489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Methyl	118	116	P/P	73 - 129
Pendimethalin	86.8	89.7	P/P	63 - 130
Phorate	91.7	89.7	P/P	48 - 118
Prodiamine	70.4	67.0	P/P	20 - 144
Prometon	108	103	P/P	53 - 120
Prometryn	113	113	P/P	63 - 119
Pronamide	109	107	P/P	50 - 150
Propiconazole	103	97.4	P/P	50 - 150
Simazine	118	116	P/P	77 - 129
Sulfentrazone	53.1	57.9	P/P	50 - 150
Tebuconazole	77.0	81.8	P/P	20 - 118
Terbufos	98.1	96.0	P/P	61 - 119
Terbutylazine	101	100	P/P	75 - 119

Reference Method: EPA 8276
Batch ID: P385297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	86.1	91.6	P/P	47 - 119
Toxaphene	94.2	91.1	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P385298

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	115		P	40 - 150
AMPA	82.0		P	40 - 150
Endothall	97.0		P	40 - 150
Glufosinate	92.9		P	40 - 150
Glyphosate	89.5		P	40 - 140
Sucralose	89.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P385308

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	93.9		P	30 - 160
Acetaminophen	87.5		P	30 - 160
Acetamiprid	80.1		P	30 - 160
Afidopyropen	68.4		P	30 - 160
Bentazon	68.9		P	30 - 160
Benzovindiflupyr	59.6		P	30 - 160
Carbamazepine	73.9		P	30 - 160
Clothianidin	91.5		P	30 - 160
Dinotefuran	93.3		P	30 - 160
Diuron	67.5		P	30 - 160
Fenuron	92.9		P	30 - 160
Fluridone	97.5		P	30 - 160
Hydrocodone	83.9		P	30 - 160
Ibuprofen	79.0		P	30 - 160
Imazapyr	58.2		P	30 - 160
Imidacloprid	113		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P385308

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Linuron	69.3		P	30 - 160
Mandestrobin	78.5		P	30 - 160
MCPP	112		P	30 - 160
Naproxen	62.6		P	30 - 160
Primidone	92.3		P	30 - 160
Pyraclostrobin	56.9		P	30 - 160
Thiamethoxam	91.1		P	30 - 160
Tolfenpyrad	30.9		P	30 - 160
Triclopyr	70.2		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P385439

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	87.3		P	30 - 160
Aldicarb	52.4		P	30 - 160
Aldicarb Sulfone	90.9		P	30 - 160
Aldicarb Sulfoxide	101		P	30 - 160
Carbaryl	42.5		P	30 - 160
Carbofuran	48.8		P	30 - 160
Methiocarb	50.5		P	30 - 160
Methomyl	92.4		P	30 - 160
Oxamyl	93.1		P	30 - 160
Propoxur	53.1		P	30 - 160

Reference Method: SM 2120 B-2011
Batch ID: P385355

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P385441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P385444

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.5		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P385450

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P385397

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186892	Barium	96.8	102	P/P	80 - 120
2186892	Calcium	102	102	P/P	80 - 120
2186892	Iron	106	106	P/P	80 - 120
2186892	Magnesium	104	103	P/P	80 - 120
2186892	Potassium	102	103	P/P	80 - 120
2186892	Sodium	99.9		P	80 - 120
2186892	Zinc	100	105	P/P	80 - 120
2187196	Barium	103		P	80 - 120
2187196	Calcium	99.0		P	80 - 120
2187196	Iron	105		P	80 - 120
2187196	Magnesium	103		P	80 - 120
2187196	Potassium	102		P	80 - 120
2187196	Sodium	99.7		P	80 - 120
2187196	Zinc	107		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P385397

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186892	Aluminum	91.9	91.3	P/P	80 - 120
2186892	Antimony	96.4	95.0	P/P	80 - 120
2186892	Arsenic	95.6	94.1	P/P	80 - 120
2186892	Boron	101	102	P/P	80 - 120
2186892	Cadmium	92.7	91.5	P/P	80 - 120
2186892	Chromium	98.3	98.2	P/P	80 - 120
2186892	Copper	102	102	P/P	80 - 120
2186892	Lead	100	99.2	P/P	80 - 120
2186892	Nickel	100	99.6	P/P	80 - 120
2186892	Selenium	87.9	86.8	P/P	80 - 120
2186892	Silver	106	105	P/P	80 - 120
2186892	Thallium	99.9	100	P/P	80 - 120
2187196	Aluminum	92.8		P	80 - 120
2187196	Antimony	97.6		P	80 - 120
2187196	Arsenic	96.8		P	80 - 120
2187196	Boron	105		P	80 - 120
2187196	Cadmium	96.7		P	80 - 120
2187196	Chromium	100		P	80 - 120
2187196	Copper	103		P	80 - 120
2187196	Lead	100		P	80 - 120
2187196	Nickel	102		P	80 - 120
2187196	Selenium	86.6		P	80 - 120
2187196	Silver	105		P	80 - 120
2187196	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385626

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186495	Chloride	103		P	90 - 110
2186871	Chloride	104		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P385630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186495	Sulfate	103		P	90 - 110
2186871	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P385478

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186719	Ammonia-N	98.4	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P385417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186809	Kjeldahl Nitrogen	113	102	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P385368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186345	NO2NO3-N	98.8	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P385369

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186809	NO2NO3-N	97.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P385506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186502	Total-P	107	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P385326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186720	O-Phosphate-P	100	99.0	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P385297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186485	Aldrin	42.8	56.3	P/P	32 - 82.0
2186485	Alpha-BHC	86.6	88.6	P/P	68 - 157
2186485	Alpha-Chlordane	65.1	78.4	P/P	54 - 108
2186485	Beta-BHC	68.2	90.7	P/P	54 - 200
2186485	Beta-Cyfluthrin	97.5	93.5	P/P	50 - 154
2186485	Bifenthrin	62.4	59.1	P/P	49 - 124
2186485	Chlorothalonil	174	198	P/P	10 - 289
2186485	Cis-Nonachlor	63.1	75.0	P/P	53 - 112
2186485	Cypermethrin	68.7	70.6	P/P	43 - 141

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P385297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186485	Dacthal	75.0	85.5	P/P	75 - 112
2186485	DDD-p,p'	68.0	79.7	P/P	58 - 125
2186485	DDE-p,p'	64.2	69.9	P/P	50 - 108
2186485	DDT-p,p'	77.5	72.5	P/P	52 - 140
2186485	Delta-BHC	107	126	P/P	61 - 228
2186485	Dicofol	107	105	P/P	59 - 130
2186485	Dieldrin	74.9	82.2	P/P	57 - 121
2186485	Endosulfan I	81.9	88.2	P/P	62 - 123
2186485	Endosulfan II	87.4	96.1	P/P	48 - 163
2186485	Endosulfan Sulfate	93.5	93.1	P/P	63 - 132
2186485	Endrin	70.7	82.2	P/P	58 - 128
2186485	Endrin Aldehyde	52.9	47.6	P/P	44 - 126
2186485	Endrin Ketone	85.4	96.3	P/P	68 - 127
2186485	Ethalfuralin	69.8	71.2	P/P	55 - 131
2186485	Gamma-BHC	75.2	85.7	P/P	54 - 206
2186485	Gamma-Chlordane	60.0	73.5	P/P	52 - 105
2186485	Heptachlor	49.9	60.8	P/P	47 - 94.0
2186485	Heptachlor Epoxide	71.8	83.3	P/P	61 - 113
2186485	Hexachlorobenzene	43.3	52.7	F/P	45 - 100
2186485	Lambda-Cyhalothrin	82.6	82.9	P/P	37 - 165
2186485	Methoxychlor	80.9	70.8	P/P	63 - 153
2186485	Mirex	53.0	58.8	P/P	38 - 90.0
2186485	Permethrin	55.0	60.2	P/P	45 - 112
2186485	Phenothrin	46.8	58.9	P/P	22 - 118
2186485	Prallethrin	58.1	72.0	P/P	21 - 114
2186485	Trans-Nonachlor	59.7	72.0	P/P	50 - 103
2186485	Trifluralin	64.2	68.5	P/P	57 - 122

Reference Method: EPA 8270E
Batch ID: P385489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2187617	Acetochlor	100	104	P/P	68 - 126
2187617	Alachlor	101	98.4	P/P	66 - 125
2187617	Ametryn	135	128	P/P	31 - 182
2187617	Atrazine	106	110	P/P	68 - 137
2187617	Atrazine Desethyl	109	114	P/P	13 - 161
2187617	Azinphos Methyl	130	227	P/F	54 - 162
2187617	Butylate	61.0	63.5	P/P	16 - 92.0
2187617	Carbophenothion	85.8	84.1	P/P	50 - 150
2187617	Chlorpyrifos Ethyl	92.9	94.0	P/P	63 - 124
2187617	Chlorpyrifos Methyl	94.9	94.3	P/P	64 - 125
2187617	Cyanazine	166	165	P/P	13 - 245
2187617	Demeton	91.9	90.2	P/P	20 - 154
2187617	Diazinon	114	120	P/P	66 - 141
2187617	Dimethenamid	95.2	94.7	P/P	50 - 130
2187617	Disulfoton	98.2	101	P/P	55 - 130
2187617	Dithiopyr	92.6	92.3	P/P	66 - 122
2187617	EPTC	64.0	65.3	P/P	15 - 93.0
2187617	Ethion	76.4	73.5	P/P	15 - 148
2187617	Ethoprop	109	109	P/P	59 - 126
2187617	Fenamiphos	64.8	61.0	P/P	39 - 137

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P385489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2187617	Fipronil	106	105	P/P	47 - 131
2187617	Fipronil Desulfinyl	102	103	P/P	43 - 121
2187617	Fipronil Sulfide	99.4	84.1	P/P	29 - 134
2187617	Fipronil Sulfone	75.1	74.3	P/P	19 - 131
2187617	Flumioxazin	194	193	P/P	70 - 200
2187617	Fonofos	95.8	97.1	P/P	62 - 128
2187617	Hexazinone	111	104	P/P	58 - 154
2187617	Imazalil	194	195	F/F	50 - 150
2187617	Malathion	96.4	99.3	P/P	54 - 135
2187617	Metolachlor	94.7	91.3	P/P	62 - 126
2187617	Metribuzin	149	153	P/P	44 - 277
2187617	Mevinphos	94.1	90.7	P/P	44 - 135
2187617	Molinate	75.9	78.1	P/P	31 - 104
2187617	Naled	60.9	63.2	P/P	40 - 130
2187617	Oxadiazon	86.3	86.4	P/P	55 - 123
2187617	Parathion Ethyl	96.6	93.7	P/P	67 - 120
2187617	Parathion Methyl	118	113	P/P	70 - 140
2187617	Pendimethalin	103	101	P/P	59 - 145
2187617	Phorate	94.0	93.9	P/P	52 - 127
2187617	Prodiamine	84.3	84.1	P/P	11 - 157
2187617	Prometon	107	105	P/P	55 - 130
2187617	Prometryn	98.8	102	P/P	55 - 127
2187617	Pronamide	104	100	P/P	50 - 150
2187617	Propiconazole	95.7	97.6	P/P	50 - 150
2187617	Sulfentrazone	87.2	91.5	P/P	50 - 150
2187617	Tebuconazole	67.7	66.3	P/P	10 - 122
2187617	Terbufos	101	102	P/P	65 - 131
2187617	Terbutylazine	93.3	93.3	P/P	63 - 131

Reference Method: EPA 8276
Batch ID: P385297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186820	Chlordane	81.1	84.4	P/P	34 - 129
2186820	Toxaphene	74.5	80.4	P/P	26 - 123

Reference Method: EPA 8321B
Batch ID: P385298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186301	Acesulfame K	105	108	P/P	40 - 150
2186301	AMPA	49.0	60.6	P/P	40 - 150
2186301	Endothall	118	121	P/P	40 - 150
2186301	Glufosinate	93.5	106	P/P	40 - 150
2186301	Glyphosate	77.8	77.8	P/P	40 - 140
2186301	Sucralose	93.7	98.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P385308

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186499	Acetaminophen	81.0	81.0	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P385308

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186499	Acetamiprid	72.3	72.1	P/P	30 - 160
2186499	Afidopyropen	68.1	62.0	P/P	30 - 160
2186499	Benzovindiflupyr	54.4	51.4	P/P	30 - 160
2186499	Carbamazepine	60.4	59.5	P/P	30 - 160
2186499	Clothianidin	78.8	81.8	P/P	30 - 160
2186499	Dinotefuran	86.9	88.0	P/P	30 - 160
2186499	Diuron	50.1	50.6	P/P	30 - 160
2186499	Fenuron	74.3	72.3	P/P	30 - 160
2186499	Fluridone	92.2	91.9	P/P	30 - 160
2186499	Hydrocodone	71.4	67.6	P/P	30 - 160
2186499	Ibuprofen	60.6	64.1	P/P	30 - 160
2186499	Imazapyr	61.8	50.6	P/P	30 - 160
2186499	Imidacloprid	131	135	P/P	30 - 160
2186499	Linuron	55.8	58.1	P/P	30 - 160
2186499	Mandestrobin	71.8	68.2	P/P	30 - 160
2186499	MCCP	101	97.8	P/P	30 - 160
2186499	Naproxen	48.7	48.5	P/P	30 - 160
2186499	Primidone	79.4	93.2	P/P	30 - 160
2186499	Pyraclostrobin	52.9	54.0	P/P	30 - 160
2186499	Thiamethoxam	90.0	78.2	P/P	30 - 160
2186499	Tolfenpyrad	36.3	39.4	P/P	30 - 160
2186499	Triclopyr	60.6	71.5	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P385439

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2187612	3-Hydroxycarbofuran	72.2	68.0	P/P	30 - 160
2187612	Aldicarb	45.4	49.9	P/P	30 - 160
2187612	Aldicarb Sulfone	51.6	53.6	P/P	30 - 160
2187612	Aldicarb Sulfoxide	15.7	37.6	F/P	30 - 160
2187612	Carbaryl	39.9	38.2	P/P	30 - 160
2187612	Carbofuran	45.3	42.8	P/P	30 - 160
2187612	Methiocarb	44.7	44.0	P/P	30 - 160
2187612	Methomyl	78.6	76.5	P/P	30 - 160
2187612	Oxamyl	23.7	25.0	F/F	30 - 160
2187612	Propoxur	46.0	44.9	P/P	30 - 160

Reference Method: SM 4500 F-C-2011
Batch ID: P385444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186828	Fluoride	100	101	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P385450

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2186874	Organic Carbon	93.2	87.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P385365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186808	Turbidity	6.21	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P385397

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186892	Barium	4.73	Spike	P	0 - 20
2186892	Calcium	0.266	Spike	P	0 - 20
2186892	Iron	0.0716	Spike	P	0 - 20
2186892	Magnesium	0.865	Spike	P	0 - 20
2186892	Potassium	0.343	Spike	P	0 - 20
2186892	Sodium	0.864	Spike	P	0 - 20
2186892	Zinc	5.15	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P385397

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186892	Aluminum	0.632	Spike	P	0 - 20
2186892	Antimony	1.48	Spike	P	0 - 20
2186892	Arsenic	1.50	Spike	P	0 - 20
2186892	Boron	0.883	Spike	P	0 - 20
2186892	Cadmium	1.35	Spike	P	0 - 20
2186892	Chromium	0.0570	Spike	P	0 - 20
2186892	Copper	0.0412	Spike	P	0 - 20
2186892	Lead	1.10	Spike	P	0 - 20
2186892	Nickel	0.601	Spike	P	0 - 20
2186892	Selenium	1.18	Spike	P	0 - 20
2186892	Silver	1.14	Spike	P	0 - 20
2186892	Thallium	0.550	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385626

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186495	Chloride	0.543	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186495	Sulfate	0.959	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385478

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186719	Ammonia-N	0.779	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186809	Kjeldahl Nitrogen	6.26	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186345	NO2NO3-N	0.462	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186809	NO2NO3-N	0.745	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186502	Total-P	1.14	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186720	O-Phosphate-P	0.846	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P385297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186485	Aldrin	27.1	Spike	P	0 - 30
2186485	Alpha-BHC	2.33	Spike	P	0 - 30
2186485	Alpha-Chlordane	18.5	Spike	P	0 - 30
2186485	Beta-BHC	28.3	Spike	P	0 - 30
2186485	Beta-Cyfluthrin	4.23	Spike	P	0 - 30
2186485	Bifenthrin	5.45	Spike	P	0 - 30
2186485	Chlorothalonil	12.9	Spike	P	0 - 30
2186485	Cis-Nonachlor	17.2	Spike	P	0 - 30
2186485	Cypermethrin	2.67	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P385297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186485	Dacthal	13.0	Spike	P	0 - 30
2186485	DDD-p,p'	15.9	Spike	P	0 - 30
2186485	DDE-p,p'	8.48	Spike	P	0 - 30
2186485	DDT-p,p'	6.63	Spike	P	0 - 30
2186485	Delta-BHC	16.5	Spike	P	0 - 30
2186485	Dicofol	1.02	Spike	P	0 - 30
2186485	Dieldrin	9.41	Spike	P	0 - 30
2186485	Endosulfan I	7.41	Spike	P	0 - 30
2186485	Endosulfan II	9.44	Spike	P	0 - 30
2186485	Endosulfan Sulfate	0.458	Spike	P	0 - 30
2186485	Endrin	15.1	Spike	P	0 - 30
2186485	Endrin Aldehyde	10.6	Spike	P	0 - 30
2186485	Endrin Ketone	12.0	Spike	P	0 - 30
2186485	Ethalfuralin	1.99	Spike	P	0 - 30
2186485	Gamma-BHC	13.1	Spike	P	0 - 30
2186485	Gamma-Chlordane	20.2	Spike	P	0 - 30
2186485	Heptachlor	19.7	Spike	P	0 - 30
2186485	Heptachlor Epoxide	14.9	Spike	P	0 - 30
2186485	Hexachlorobenzene	19.5	Spike	P	0 - 30
2186485	Lambda-Cyhalothrin	0.335	Spike	P	0 - 30
2186485	Methoxychlor	13.3	Spike	P	0 - 30
2186485	Mirex	10.4	Spike	P	0 - 30
2186485	Permethrin	8.97	Spike	P	0 - 30
2186485	Phenothrin	22.9	Spike	P	0 - 30
2186485	Prallethrin	21.4	Spike	P	0 - 30
2186485	Trans-Nonachlor	18.7	Spike	P	0 - 30
2186485	Trifluralin	6.45	Spike	P	0 - 30
LFB	Aldrin	1.43	LCS	P	0 - 30
LFB	Alpha-BHC	0.0101	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.92	LCS	P	0 - 30
LFB	Beta-BHC	8.96	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	13.5	LCS	P	0 - 30
LFB	Bifenthrin	1.68	LCS	P	0 - 30
LFB	Chlorothalonil	23.6	LCS	P	0 - 30
LFB	Cis-Nonachlor	2.85	LCS	P	0 - 30
LFB	Cypermethrin	8.11	LCS	P	0 - 30
LFB	Dacthal	1.45	LCS	P	0 - 30
LFB	DDD-p,p'	2.34	LCS	P	0 - 30
LFB	DDE-p,p'	11.9	LCS	P	0 - 30
LFB	DDT-p,p'	1.31	LCS	P	0 - 30
LFB	Delta-BHC	1.73	LCS	P	0 - 30
LFB	Dicofol	7.97	LCS	P	0 - 30
LFB	Dieldrin	0.218	LCS	P	0 - 30
LFB	Endosulfan I	0.901	LCS	P	0 - 30
LFB	Endosulfan II	5.51	LCS	P	0 - 30
LFB	Endosulfan Sulfate	4.39	LCS	P	0 - 30
LFB	Endrin	6.85	LCS	P	0 - 30
LFB	Endrin Aldehyde	12.1	LCS	P	0 - 30
LFB	Endrin Ketone	3.49	LCS	P	0 - 30
LFB	Ethalfuralin	1.46	LCS	P	0 - 30
LFB	Gamma-BHC	5.78	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P385297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Gamma-Chlordane	1.85	LCS	P	0 - 30
LFB	Heptachlor	1.34	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.804	LCS	P	0 - 30
LFB	Hexachlorobenzene	4.11	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	14.2	LCS	P	0 - 30
LFB	Methoxychlor	4.08	LCS	P	0 - 30
LFB	Mirex	1.38	LCS	P	0 - 30
LFB	Permethrin	5.40	LCS	P	0 - 30
LFB	Phenothrin	3.54	LCS	P	0 - 30
LFB	Prallethrin	4.10	LCS	P	0 - 30
LFB	Trans-Nonachlor	0.471	LCS	P	0 - 30
LFB	Trifluralin	2.41	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P385489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2187617	Acetochlor	4.01	Spike	P	0 - 30
2187617	Alachlor	2.55	Spike	P	0 - 30
2187617	Ametryn	5.65	Spike	P	0 - 30
2187617	Atrazine	2.49	Spike	P	0 - 30
2187617	Atrazine Desethyl	3.85	Spike	P	0 - 30
2187617	Azinphos Methyl	54.3	Spike	F	0 - 30
2187617	Bromacil	8.09	Spike	P	0 - 30
2187617	Butylate	3.96	Spike	P	0 - 30
2187617	Carbophenothion	2.00	Spike	P	0 - 30
2187617	Chlorpyrifos Ethyl	1.15	Spike	P	0 - 30
2187617	Chlorpyrifos Methyl	0.662	Spike	P	0 - 30
2187617	Cyanazine	0.355	Spike	P	0 - 30
2187617	Demeton	1.85	Spike	P	0 - 30
2187617	Diazinon	5.31	Spike	P	0 - 30
2187617	Dimethenamid	0.616	Spike	P	0 - 30
2187617	Disulfoton	2.55	Spike	P	0 - 30
2187617	Dithiopyr	0.371	Spike	P	0 - 30
2187617	EPTC	1.89	Spike	P	0 - 30
2187617	Ethion	3.90	Spike	P	0 - 30
2187617	Ethoprop	0.163	Spike	P	0 - 30
2187617	Fenamiphos	6.01	Spike	P	0 - 30
2187617	Fipronil	0.839	Spike	P	0 - 30
2187617	Fipronil Desulfinyl	0.514	Spike	P	0 - 30
2187617	Fipronil Sulfide	16.7	Spike	P	0 - 30
2187617	Fipronil Sulfone	1.14	Spike	P	0 - 30
2187617	Flumioxazin	0.337	Spike	P	0 - 30
2187617	Fonofos	1.35	Spike	P	0 - 30
2187617	Hexazinone	6.28	Spike	P	0 - 30
2187617	Imazalil	0.365	Spike	P	0 - 30
2187617	Malathion	2.88	Spike	P	0 - 30
2187617	Metalaxyl	0.261	Spike	P	0 - 30
2187617	Metolachlor	3.59	Spike	P	0 - 30
2187617	Metribuzin	3.00	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P385489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2187617	Mevinphos	3.64	Spike	P	0 - 30
2187617	Molinate	2.94	Spike	P	0 - 30
2187617	Naled	3.85	Spike	P	0 - 30
2187617	Norflurazon	10.1	Spike	P	0 - 30
2187617	Oxadiazon	0.103	Spike	P	0 - 30
2187617	Parathion Ethyl	3.01	Spike	P	0 - 30
2187617	Parathion Methyl	4.40	Spike	P	0 - 30
2187617	Pendimethalin	2.10	Spike	P	0 - 30
2187617	Phorate	0.130	Spike	P	0 - 30
2187617	Prodiamine	0.206	Spike	P	0 - 30
2187617	Prometon	1.72	Spike	P	0 - 30
2187617	Prometryn	3.15	Spike	P	0 - 30
2187617	Pronamide	3.75	Spike	P	0 - 30
2187617	Propiconazole	2.02	Spike	P	0 - 30
2187617	Simazine	0.320	Spike	P	0 - 30
2187617	Sulfentrazone	4.87	Spike	P	0 - 30
2187617	Tebuconazole	2.03	Spike	P	0 - 30
2187617	Terbufos	0.605	Spike	P	0 - 30
2187617	Terbutylazine	0.0348	Spike	P	0 - 30
LFB	Acetochlor	3.94	LCS	P	0 - 30
LFB	Alachlor	2.96	LCS	P	0 - 30
LFB	Ametryn	0.246	LCS	P	0 - 30
LFB	Atrazine	0.425	LCS	P	0 - 30
LFB	Atrazine Desethyl	0.487	LCS	P	0 - 30
LFB	Azinphos Methyl	6.09	LCS	P	0 - 30
LFB	Bromacil	4.01	LCS	P	0 - 30
LFB	Butylate	1.63	LCS	P	0 - 30
LFB	Carbophenothion	5.88	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	0.501	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.677	LCS	P	0 - 30
LFB	Cyanazine	3.59	LCS	P	0 - 30
LFB	Demeton	0.414	LCS	P	0 - 30
LFB	Diazinon	2.93	LCS	P	0 - 30
LFB	Dimethenamid	5.34	LCS	P	0 - 30
LFB	Disulfoton	2.49	LCS	P	0 - 30
LFB	Dithiopyr	0.915	LCS	P	0 - 30
LFB	EPTC	3.84	LCS	P	0 - 30
LFB	Ethion	3.39	LCS	P	0 - 30
LFB	Ethoprop	1.38	LCS	P	0 - 30
LFB	Fenamiphos	2.63	LCS	P	0 - 30
LFB	Fipronil	1.36	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	3.24	LCS	P	0 - 30
LFB	Fipronil Sulfide	5.67	LCS	P	0 - 30
LFB	Fipronil Sulfone	7.35	LCS	P	0 - 30
LFB	Flumioxazin	0.491	LCS	P	0 - 30
LFB	Fonofos	3.05	LCS	P	0 - 30
LFB	Hexazinone	0.820	LCS	P	0 - 30
LFB	Imazalil	31.1	LCS	F	0 - 30
LFB	Malathion	4.88	LCS	P	0 - 30
LFB	Metalaxyl	2.07	LCS	P	0 - 30
LFB	Metolachlor	2.03	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P385489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Metribuzin	4.17	LCS	P	0 - 30
LFB	Mevinphos	0.332	LCS	P	0 - 30
LFB	Molinate	1.45	LCS	P	0 - 30
LFB	Naled	8.23	LCS	P	0 - 30
LFB	Norflurazon	2.38	LCS	P	0 - 30
LFB	Oxadiazon	2.05	LCS	P	0 - 30
LFB	Parathion Ethyl	5.32	LCS	P	0 - 30
LFB	Parathion Methyl	1.40	LCS	P	0 - 30
LFB	Pendimethalin	3.29	LCS	P	0 - 30
LFB	Phorate	2.29	LCS	P	0 - 30
LFB	Prodiamine	5.01	LCS	P	0 - 30
LFB	Prometon	3.90	LCS	P	0 - 30
LFB	Prometryn	0.166	LCS	P	0 - 30
LFB	Pronamide	1.72	LCS	P	0 - 30
LFB	Propiconazole	5.17	LCS	P	0 - 30
LFB	Simazine	1.43	LCS	P	0 - 30
LFB	Sulfentrazone	8.57	LCS	P	0 - 30
LFB	Tebuconazole	6.11	LCS	P	0 - 30
LFB	Terbufos	2.10	LCS	P	0 - 30
LFB	Terbutylazine	1.15	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P385297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186820	Chlordane	4.04	Spike	P	0 - 30
2186820	Toxaphene	7.55	Spike	P	0 - 30
LFB	Chlordane	6.20	LCS	P	0 - 30
LFB	Toxaphene	3.27	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P385298

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186301	Acesulfame K	3.41	Spike	P	0 - 30
2186301	AMPA	21.2	Spike	P	0 - 30
2186301	Endothall	2.22	Spike	P	0 - 30
2186301	Glufosinate	12.9	Spike	P	0 - 30
2186301	Glyphosate	0.0167	Spike	P	0 - 30
2186301	Sucralose	5.07	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P385308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186499	2,4-D	1.18	Spike	P	0 - 30
2186499	Acetaminophen	0.0156	Spike	P	0 - 30
2186499	Acetamiprid	0.348	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P385308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186499	Afidopyropen	9.32	Spike	P	0 - 30
2186499	Bentazon	0.458	Spike	P	0 - 30
2186499	Benzovindiflupyr	5.54	Spike	P	0 - 30
2186499	Carbamazepine	1.52	Spike	P	0 - 30
2186499	Clothianidin	3.38	Spike	P	0 - 30
2186499	Dinotefuran	1.28	Spike	P	0 - 30
2186499	Diuron	0.833	Spike	P	0 - 30
2186499	Fenuron	2.75	Spike	P	0 - 30
2186499	Fluridone	0.266	Spike	P	0 - 30
2186499	Hydrocodone	5.39	Spike	P	0 - 30
2186499	Ibuprofen	5.60	Spike	P	0 - 30
2186499	Imazapyr	13.0	Spike	P	0 - 30
2186499	Imidacloprid	2.62	Spike	P	0 - 30
2186499	Linuron	4.10	Spike	P	0 - 30
2186499	Mandestrobin	5.15	Spike	P	0 - 30
2186499	MCPP	3.62	Spike	P	0 - 30
2186499	Naproxen	0.365	Spike	P	0 - 30
2186499	Primidone	15.9	Spike	P	0 - 30
2186499	Pyraclostrobin	2.18	Spike	P	0 - 30
2186499	Thiamethoxam	13.9	Spike	P	0 - 30
2186499	Tolfenpyrad	8.17	Spike	P	0 - 30
2186499	Triclopyr	16.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P385439

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2187612	3-Hydroxycarbofuran	5.99	Spike	P	0 - 30
2187612	Aldicarb	9.54	Spike	P	0 - 30
2187612	Aldicarb Sulfone	3.92	Spike	P	0 - 30
2187612	Aldicarb Sulfoxide	82.2	Spike	F	0 - 30
2187612	Carbaryl	4.42	Spike	P	0 - 30
2187612	Carbofuran	5.68	Spike	P	0 - 30
2187612	Methiocarb	1.57	Spike	P	0 - 30
2187612	Methomyl	2.68	Spike	P	0 - 30
2187612	Oxamyl	5.66	Spike	P	0 - 30
2187612	Propoxur	2.38	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P385355

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186808	Color (true)	1.72	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P385441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P385441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186828	Total Alkalinity	0.282	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P385782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186718	TDS	0.428	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P385444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186828	Fluoride	0.454	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P385450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2186874	Organic Carbon	3.70	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2186816
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	34.0	P	30 - 160

Lab Sample ID: 2186817
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	51.3	P	30 - 160
EPA 8321B	Diuron-d6	57.6	P	30 - 160
EPA 8321B	Endothall-d6	68.6	P	30 - 160
EPA 8321B	Endothall-d6	68.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	80.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	80.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.9	P	30 - 160
EPA 8321B	Primidone-d5	81.3	P	30 - 160
EPA 8321B	Sucralose-d6	95.0	P	30 - 160
EPA 8321B	Sucralose-d6	95.0	P	30 - 160

Lab Sample ID: 2186818
Field Sample ID: Fieldblank_280720

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	57.5	P	30 - 160

Lab Sample ID: 2186819
Field Sample ID: Fieldblank_280720

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	72.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.0	P	30 - 160
EPA 8321B	Diuron-d6	87.5	P	30 - 160
EPA 8321B	Endothall-d6	88.6	P	30 - 160
EPA 8321B	Endothall-d6	88.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	148	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	148	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.1	P	30 - 160
EPA 8321B	Primidone-d5	91.3	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160

Lab Sample ID: 2186820
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	69.2	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	48.1	P	34 - 106
EPA 8276	Decachlorobiphenyl	59.0	P	26 - 97.0
EPA 8276	PCNB	67.3	P	38 - 141

Quality Assurance Report Surrogates

Lab Sample ID: 2186821
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	115	P	72 - 135
EPA 8270E	Terbufos-d10	115	P	57 - 134

Lab Sample ID: 2186822
Field Sample ID: Fieldblank_280720

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	71.0	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	54.2	P	34 - 106
EPA 8276	Decachlorobiphenyl	63.4	P	26 - 97.0
EPA 8276	PCNB	67.7	P	38 - 141

Lab Sample ID: 2186823
Field Sample ID: Fieldblank_280720

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	107	P	72 - 135
EPA 8270E	Terbufos-d10	118	P	57 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A100153

Included Lab Sample IDs: 2186810, 2186813

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A100159

Included Lab Sample IDs: 2186817, 2186819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	93.4	99.0	P/P	60 - 160
Sucralose	99.0	95.5	P/P	60 - 160

Reference Method: SM 2120 B-2011

Run ID: A100169

Included Lab Sample IDs: 2186808, 2186811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A100175

Included Lab Sample IDs: 2186809, 2186812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.0	P/P	90 - 110
NO2NO3-N	99.0	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A100176

Included Lab Sample IDs: 2186808, 2186811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A100198

Included Lab Sample IDs: 2186817, 2186819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	64.9	68.0	P/P	60 - 160
Endothall	105	103	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A100200

Included Lab Sample IDs: 2186808, 2186811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	98.8	P/P	90 - 110
Total Alkalinity	98.8	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A100200

Included Lab Sample IDs: 2186808, 2186811

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

Reference Method: SM 5310 B-2011

Run ID: A100203

Included Lab Sample IDs: 2186809, 2186812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	98.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A100212

Included Lab Sample IDs: 2186809, 2186812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	99.8	P/P	90 - 110
Ammonia-N	99.8	98.9	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A100216

Included Lab Sample IDs: 2186824, 2186825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	98.2	P/P	90 - 110
Calcium	98.4	101	P/P	90 - 110
Iron	102	104	P/P	90 - 110
Magnesium	99.6	103	P/P	90 - 110
Potassium	100	100	P/P	90 - 110
Sodium	99.5	102	P/P	90 - 110
Zinc	99.7	98.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A100223

Included Lab Sample IDs: 2186817, 2186819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	76.7	80.2	P/P	60 - 160
Glufosinate	106	105	P/P	60 - 160
Glyphosate	93.7	95.0	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A100234

Included Lab Sample IDs: 2186809, 2186812

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A100249

Included Lab Sample IDs: 2186820, 2186822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.4		P	80 - 120
Chlordane	98.4		P	80 - 120
Toxaphene	111		P	80 - 120
Toxaphene	115		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A100267

Included Lab Sample IDs: 2186808, 2186811

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

Reference Method: EPA 8321B

Run ID: A100276

Included Lab Sample IDs: 2186817, 2186819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	82.4	82.9	P/P	50 - 150
Acetaminophen	108	116	P/P	60 - 160
Acetamiprid	113	108	P/P	50 - 150
Afidopyropen	97.2	103	P/P	50 - 150
Bentazon	99.9	97.0	P/P	50 - 160
Benzovindiflupyr	94.2	101	P/P	50 - 150
Carbamazepine	120	119	P/P	60 - 150
Clothianidin	111	112	P/P	60 - 150
Dinotefuran	96.3	99.8	P/P	50 - 150
Diuron	107	107	P/P	60 - 160
Fenuron	109	114	P/P	60 - 150
Fluridone	125	128	P/P	60 - 160
Hydrocodone	106	105	P/P	60 - 150
Ibuprofen	89.9	89.5	P/P	50 - 160
Imazapyr	72.3	73.0	P/P	50 - 150
Imidacloprid	106	112	P/P	60 - 150
Linuron	97.7	101	P/P	60 - 150
Mandestrobin	119	123	P/P	50 - 150
MCPP	93.4	90.3	P/P	50 - 150
Naproxen	82.9	94.0	P/P	50 - 160
Primidone	103	111	P/P	60 - 150
Pyraclostrobin	93.6	101	P/P	60 - 150
Thiamethoxam	120	113	P/P	50 - 150
Tolfenpyrad	78.1	81.1	P/P	60 - 150
Triclopyr	82.1	86.8	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A100283

Included Lab Sample IDs: 2186816, 2186818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	122	135	P/P	60 - 150
Aldicarb	96.7	104	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A100283

Included Lab Sample IDs: 2186816, 2186818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfone	118	117	P/P	50 - 150
Aldicarb Sulfoxide	122	112	P/P	50 - 150
Bentazon	102	117	P/P	50 - 160
Carbaryl	115	117	P/P	60 - 150
Carbofuran	112	122	P/P	50 - 150
Methiocarb	96.9	108	P/P	50 - 150
Methomyl	115	114	P/P	50 - 150
Oxamyl	119	116	P/P	50 - 150
Propoxur	122	130	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100284

Included Lab Sample IDs: 2186809

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

Reference Method: EPA 8270E

Run ID: A100309

Included Lab Sample IDs: 2186820, 2186822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.9		P	80 - 120
Alpha-BHC	111		P	80 - 120
Alpha-Chlordane	99.9		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	116		P	80 - 120
Bifenthrin	98.4		P	80 - 120
Chlorothalonil	110		P	80 - 120
Cis-Nonachlor	98.1		P	80 - 120
Cypermethrin	97.2		P	80 - 120
Dacthal	99.7		P	80 - 120
DDD-p,p'	98.2		P	80 - 120
DDE-p,p'	97.6		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	100		P	80 - 120
Dicofol	120		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	99.5		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	96.7		P	80 - 120
Endrin	99.4		P	80 - 120
Endrin Aldehyde	102		P	80 - 120
Endrin Ketone	95.3		P	80 - 120
Ethalfuralin	98.0		P	80 - 120
Gamma-BHC	109		P	80 - 120
Gamma-Chlordane	99.1		P	80 - 120
Heptachlor	98.3		P	80 - 120
Heptachlor Epoxide	98.6		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Lambda-Cyhalothrin	99.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A100309

Included Lab Sample IDs: 2186820, 2186822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	103		P	80 - 120
Mirex	99.4		P	80 - 120
Permethrin	93.4		P	80 - 120
Phenothrin	95.9		P	80 - 120
Prallethrin	95.5		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Trifluralin	96.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A100326

Included Lab Sample IDs: 2186824, 2186825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	93.1	94.5	P/P	90 - 110
Aluminum	93.7	93.1	P/P	90 - 110
Antimony	94.6	95.3	P/P	90 - 110
Antimony	95.3	94.6	P/P	90 - 110
Arsenic	93.9	94.3	P/P	90 - 110
Arsenic	95.9	93.9	P/P	90 - 110
Boron	101	103	P/P	90 - 110
Boron	97.9	101	P/P	90 - 110
Cadmium	92.5	93.2	P/P	90 - 110
Cadmium	93.2	93.3	P/P	90 - 110
Chromium	95.8	96.3	P/P	90 - 110
Chromium	96.3	96.7	P/P	90 - 110
Lead	95.9	96.6	P/P	90 - 110
Lead	96.2	95.9	P/P	90 - 110
Selenium	91.5	90.5	P/P	90 - 110
Selenium	92.5	91.5	P/P	90 - 110
Silver	103	104	P/P	90 - 110
Silver	104	103	P/P	90 - 110
Thallium	94.0	94.0	P/P	90 - 110
Thallium	94.6	94.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A100356

Included Lab Sample IDs: 2186824, 2186825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	101	99.0	P/P	90 - 110
Copper	102	101	P/P	90 - 110
Nickel	101	99.8	P/P	90 - 110
Nickel	104	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A100360

Included Lab Sample IDs: 2186812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	96.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A100409

Included Lab Sample IDs: 2186821, 2186823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	94.3		P	80 - 120
Atrazine	98.9		P	80 - 120
Atrazine Desethyl	105		P	80 - 120
Azinphos Methyl	106		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	97.7		P	80 - 120
Carbophenothion	98.2		P	80 - 120
Chlorpyrifos Ethyl	95.5		P	80 - 120
Chlorpyrifos Methyl	97.2		P	80 - 120
Cyanazine	97.0		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	101		P	80 - 120
Dimethenamid	103		P	80 - 120
Disulfoton	94.2		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	99.2		P	80 - 120
Ethion	98.0		P	80 - 120
Ethoprop	100		P	80 - 120
Fenamiphos	97.0		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	99.6		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Flumioxazin	98.5		P	80 - 120
Fonofos	98.7		P	80 - 120
Hexazinone	103		P	80 - 120
Imazalil	116		P	80 - 120
Malathion	97.0		P	80 - 120
Metalaxyl	103		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	94.2		P	80 - 120
Molinate	100		P	80 - 120
Naled	103		P	80 - 120
Norflurazon	98.5		P	80 - 120
Oxadiazon	99.4		P	80 - 120
Parathion Ethyl	96.1		P	80 - 120
Parathion Methyl	99.1		P	80 - 120
Pendimethalin	96.6		P	80 - 120
Phorate	99.0		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	98.1		P	80 - 120
Propiconazole	103		P	80 - 120
Simazine	103		P	80 - 120
Sulfentrazone	96.7		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	96.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A100409

Included Lab Sample IDs: 2186821, 2186823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbutylazine	103		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	
EPA 180.1 Rev. 2.0	Turbidity							6.21	
EPA 200.7 Rev. 4.4	Barium	98.0		96.8	102	103			4.73
	Calcium	101		102	102	99.0			0.266
	Iron	103		106	106	105			0.0716
	Magnesium	103		104	103	103			0.865
	Potassium	101		102	103	102			0.343
	Sodium	101		99.9	99.7				0.864
	Zinc	98.9		100	105	107			5.15
EPA 200.8 Rev. 5.4	Aluminum	91.5		91.9	91.3	92.8			0.632
	Antimony	93.9		96.4	95.0	97.6			1.48
	Arsenic	95.0		96.8	95.6	94.1			1.50
	Boron	99.9		101	102	105			0.883
	Cadmium	93.0		92.7	91.5	96.7			1.35
	Chromium	95.2		98.3	98.2	100			0.0570
	Copper	102		102	102	103			0.0412
	Lead	96.2		100	99.2	100			1.10
	Nickel	101		100	99.6	102			0.601
	Selenium	89.7		87.9	86.8	86.6			1.18
	Silver	106		106	105	105			1.14
	Thallium	95.6		99.9	100	103			0.550
EPA 300.0 Rev. 2.1	Chloride	105		103	104			0.543	
	Sulfate	105		103	104			0.959	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2		98.4	97.4				0.779
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107		113	102				6.26
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101		98.8	98.0				0.462
	NO ₂ NO ₃ -N	100		97.2					0.745
EPA 365.1 Rev. 2.0	Total-P	105		107	106				1.14
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1		100	99.0				0.846
EPA 8270E	Acetochlor	113	108	100	104		3.94		4.01
	Alachlor	109	106	101	98.4		2.96		2.55
	Aldrin	50.6	49.9	42.8	56.3		1.43		27.1
	Alpha-BHC	91.2	91.2	86.6	88.6		0.0101		2.33
	Alpha-Chlordane	80.1	78.5	65.1	78.4		1.92		18.5
	Ametryn	117	117	135	128		0.246		5.65
	Atrazine	111	111	106	110		0.425		2.49
	Atrazine Desethyl	122	121	109	114		0.487		3.85
	Azinphos Methyl	148	139	130	227		6.09		54.3
	Beta-BHC	98.6	108	68.2	90.7		8.96		28.3
	Beta-Cyfluthrin	88.4	77.2	97.5	93.5		13.5		4.23
	Bifenthrin	63.2	62.1	62.4	59.1		1.68		5.45
	Bromacil	91.8	95.6				4.01		8.09
	Butylate	58.0	57.1	61.0	63.5		1.63		3.96
	Carbophenothion	93.8	99.4	85.8	84.1		5.88		2.00
	Chlorothalonil	99.5	78.5	174	198		23.6		12.9
	Chlorpyrifos Ethyl	97.9	98.4	92.9	94.0		0.501		1.15
	Chlorpyrifos Methyl	98.7	99.3	94.9	94.3		0.677		0.662
	Cis-Nonachlor	79.9	77.7	63.1	75.0		2.85		17.2
	Cyanazine	171	165	166	165		3.59		0.355
	Cypermethrin	70.7	65.2	68.7	70.6		8.11		2.67
	Dacthal	91.6	90.3	75.0	85.5		1.45		13.0
	DDD-p,p'	88.9	86.9	68.0	79.7		2.34		15.9
	DDE-p,p'	74.3	66.0	64.2	69.9		11.9		8.48
	DDT-p,p'	78.1	77.0	77.5	72.5		1.31		6.63
	Delta-BHC	126	128	107	126		1.73		16.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Demeton	89.6	89.3	91.9	90.2	0.414	1.85
	Diazinon	113	110	114	120	2.93	5.31
	Dicofol	107	98.5	107	105	7.97	1.02
	Dieldrin	87.5	87.3	74.9	82.2	0.218	9.41
	Dimethenamid	109	104	95.2	94.7	5.34	0.616
	Disulfoton	92.3	94.7	98.2	101	2.49	2.55
	Dithiopyr	104	103	92.6	92.3	0.915	0.371
	Endosulfan I	87.1	87.9	81.9	88.2	0.901	7.41
	Endosulfan II	104	98.2	87.4	96.1	5.51	9.44
	Endosulfan Sulfate	90.9	87.0	93.5	93.1	4.39	0.458
	Endrin	92.6	86.5	70.7	82.2	6.85	15.1
	Endrin Aldehyde	76.3	86.1	52.9	47.6	12.1	10.6
	Endrin Ketone	94.3	91.1	85.4	96.3	3.49	12.0
	EPTC	55.6	57.8	64.0	65.3	3.84	1.89
	Ethalfuralin	69.9	68.9	69.8	71.2	1.46	1.99
	Ethion	85.3	88.2	76.4	73.5	3.39	3.90
	Ethoprop	94.8	96.1	109	109	1.38	0.163
	Fenamiphos	95.5	98.1	64.8	61.0	2.63	6.01
	Fipronil	113	115	106	105	1.36	0.839
	Fipronil Desulfinyl	110	113	102	103	3.24	0.514
	Fipronil Sulfide	91.7	97.0	99.4	84.1	5.67	16.7
	Fipronil Sulfone	87.9	94.7	75.1	74.3	7.35	1.14
	Flumioxazin	127	126	194	193	0.491	0.337
	Fonofos	92.2	89.4	95.8	97.1	3.05	1.35
	Gamma-BHC	90.4	95.8	75.2	85.7	5.78	13.1
	Gamma-Chlordane	75.8	74.4	60.0	73.5	1.85	20.2
	Heptachlor	61.1	62.0	49.9	60.8	1.34	19.7
	Heptachlor Epoxide	84.2	83.5	71.8	83.3	0.804	14.9
	Hexachlorobenzene	61.8	59.3	43.3	52.7	4.11	19.5
	Hexazinone	106	107	111	104	0.820	6.28
	Imazalil	153	112	194	195	31.1	0.365
	Lambda-Cyhalothrin	80.8	70.0	82.6	82.9	14.2	0.335
	Malathion	108	114	96.4	99.3	4.88	2.88
	Metalaxyl	109	107			2.07	0.261
	Methoxychlor	86.1	82.7	80.9	70.8	4.08	13.3
	Metolachlor	104	102	94.7	91.3	2.03	3.59
	Metribuzin	165	158	149	153	4.17	3.00
	Mevinphos	92.0	91.6	94.1	90.7	0.332	3.64
	Mirex	54.9	54.2	53.0	58.8	1.38	10.4
	Molinate	71.1	72.1	75.9	78.1	1.45	2.94
	Naled	72.3	78.5	60.9	63.2	8.23	3.85
	Norflurazon	108	110			2.38	10.1
	Oxadiazon	96.2	98.2	86.3	86.4	2.05	0.103
	Parathion Ethyl	92.5	97.6	96.6	93.7	5.32	3.01
	Parathion Methyl	118	116	118	113	1.40	4.40
	Pendimethalin	86.8	89.7	103	101	3.29	2.10
	Permethrin	63.2	59.9	55.0	60.2	5.40	8.97
	Phenothrin	49.3	47.6	46.8	58.9	3.54	22.9
	Phorate	91.7	89.7	94.0	93.9	2.29	0.130
	Prallethrin	77.0	73.9	58.1	72.0	4.10	21.4
	Prodiamine	70.4	67.0	84.3	84.1	5.01	0.206
	Prometon	108	103	107	105	3.90	1.72
	Prometryn	113	113	98.8	102	0.166	3.15
	Pronamide	109	107	104	100	1.72	3.75

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Propiconazole	103	97.4	95.7	97.6	5.17		2.02
	Simazine	118	116			1.43		0.320
	Sulfentrazone	53.1	57.9	87.2	91.5	8.57		4.87
	Tebuconazole	77.0	81.8	67.7	66.3	6.11		2.03
	Terbufos	98.1	96.0	101	102	2.10		0.605
	Terbuthylazine	101	100	93.3	93.3	1.15		0.0348
	Trans-Nonachlor	71.7	71.3	59.7	72.0	0.471		18.7
	Trifluralin	68.9	67.3	64.2	68.5	2.41		6.45
EPA 8276	Chlordane	86.1	91.6	81.1	84.4	6.20		4.04
	Toxaphene	94.2	91.1	74.5	80.4	3.27		7.55
EPA 8321B	2,4-D	93.9						1.18
	3-Hydroxycarbofuran	87.3		72.2	68.0			5.99
	Acesulfame K	115		105	108			3.41
	Acetaminophen	87.5		81.0	81.0			0.0156
	Acetamiprid	80.1		72.3	72.1			0.348
	Afidopyropen	68.4		68.1	62.0			9.32
	Aldicarb	52.4		45.4	49.9			9.54
	Aldicarb Sulfone	90.9		51.6	53.6			3.92
	Aldicarb Sulfoxide	101		15.7	37.6			82.2
	AMPA	82.0		49.0	60.6			21.2
	Bentazon	68.9						0.458
	Benzovindiflupyr	59.6		51.4	54.4			5.54
	Carbamazepine	73.9		60.4	59.5			1.52
	Carbaryl	42.5		39.9	38.2			4.42
	Carbofuran	48.8		45.3	42.8			5.68
	Clothianidin	91.5		78.8	81.8			3.38
	Dinotefuran	93.3		86.9	88.0			1.28
	Diuron	67.5		50.1	50.6			0.833
	Endothall	97.0		118	121			2.22
	Fenuron	92.9		74.3	72.3			2.75
	Fluridone	97.5		92.2	91.9			0.266
	Glufosinate	92.9		93.5	106			12.9
	Glyphosate	89.5		77.8	77.8			0.0167
	Hydrocodone	83.9		71.4	67.6			5.39
	Ibuprofen	79.0		64.1	60.6			5.60
	Imazapyr	58.2		50.6	61.8			13.0
	Imidacloprid	113		131	135			2.62
	Linuron	69.3		55.8	58.1			4.10
	Mandestrobin	78.5		71.8	68.2			5.15
	MCPP	112		97.8	101			3.62
	Methiocarb	50.5		44.7	44.0			1.57
	Methomyl	92.4		78.6	76.5			2.68
	Naproxen	62.6		48.5	48.7			0.365
	Oxamyl	93.1		23.7	25.0			5.66
	Primidone	92.3		79.4	93.2			15.9
	Propoxur	53.1		46.0	44.9			2.38
	Pyraclostrobin	56.9		54.0	52.9			2.18
	Sucralose	89.9		93.7	98.6			5.07
	Thiamethoxam	91.1		90.0	78.2			13.9
	Tolfenpyrad	30.9		39.4	36.3			8.17
	Triclopyr	70.2		71.5	60.6			16.5
SM 2120 B-2011	Color (true)	102					1.72	
SM 2320 B-2011	Total Alkalinity	98.6					0.282	
SM 2540 C-2011	TDS						0.428	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500 F-C-2011	Fluoride	99.5	100	101		0.454
SM 5310 B-2011	Organic Carbon	97.8	93.2	87.8		3.70

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2186808, 2186811
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2186824, 2186825
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2186824, 2186825
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2186808, 2186811
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2186808, 2186811
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2186809, 2186812
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2186809, 2186812
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2186809, 2186812
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2186809, 2186812
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2186810, 2186813
EPA 8270E	Organochlorine pesticides in water matrices by GC/MS-SIM	2186820, 2186822
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2186821, 2186823
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2186820, 2186822
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2186816, 2186818
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2186817, 2186819
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2186817, 2186819
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2186808, 2186811
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2186808, 2186811
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2186824, 2186825
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2186808, 2186811
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2186808, 2186811
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2186808, 2186811
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2186809, 2186812

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	07/29/2020			07/29/2020 16:15	Blanca Fach	2186808, 2186811
EPA 200.7 Rev. 4.4	07/29/2020	07/30/2020 16:00	Elliott D. Healy	07/31/2020 13:33	Betina Topolski	2186825
	07/29/2020	07/30/2020 16:00	Elliott D. Healy	07/31/2020 14:22	Betina Topolski	2186824
EPA 200.8 Rev. 5.4	07/29/2020	07/30/2020 16:00	Elliott D. Healy	08/06/2020 19:41	Alexander Thompson	2186825
	07/29/2020	07/30/2020 16:00	Elliott D. Healy	08/06/2020 21:12	Alexander Thompson	2186824
	07/29/2020	07/30/2020 16:00	Elliott D. Healy	08/07/2020 17:35	Alexander Thompson	2186825
	07/29/2020	07/30/2020 16:00	Elliott D. Healy	08/07/2020 18:37	Alexander Thompson	2186824
EPA 300.0 Rev. 2.1	07/29/2020			08/01/2020 10:43	Julia Storbeck	2186808
	07/29/2020			08/01/2020 10:55	Julia Storbeck	2186811
EPA 350.1 Rev. 2.0	07/29/2020			08/01/2020 17:40	Ping Hua	2186809
	07/29/2020			08/01/2020 17:52	Ping Hua	2186812
EPA 351.2 Rev. 2.0	07/29/2020	07/31/2020 10:40	Jhamieka S. Greenwood	08/03/2020 15:07	Julia Storbeck	2186809
	07/29/2020	07/31/2020 10:40	Jhamieka S. Greenwood	08/03/2020 15:15	Julia Storbeck	2186812
EPA 353.2 Rev. 2.0	07/29/2020			07/30/2020 08:26	Beverly Y. Sanders	2186812
	07/29/2020			07/30/2020 08:33	Beverly Y. Sanders	2186809
EPA 365.1 Rev. 2.0	07/29/2020	08/03/2020 10:00	Lipi Saha	08/04/2020 10:09	Benjamin T. Nordmann	2186809
	07/29/2020	08/03/2020 10:00	Lipi Saha	08/06/2020 14:53	Benjamin T. Nordmann	2186812
EPA 365.1 Rev. 2.0 dissolved	07/29/2020			07/29/2020 15:00	Virginia P. Brown	2186810
	07/29/2020			07/29/2020 15:01	Virginia P. Brown	2186813
EPA 8270E	07/29/2020	07/31/2020 08:00	Fe-Val Siddell	08/04/2020 20:45	Julie Wi	2186820
	07/29/2020	07/31/2020 08:00	Fe-Val Siddell	08/04/2020 21:16	Julie Wi	2186822
	07/29/2020	08/03/2020 08:30	Rasheda Ghaffari	08/04/2020 15:31	Vandana T. Nagar	2186821
	07/29/2020	08/03/2020 08:30	Rasheda Ghaffari	08/04/2020 15:57	Vandana T. Nagar	2186823
EPA 8276	07/29/2020	07/31/2020 08:00	Fe-Val Siddell	08/04/2020 04:39	Arthur Maknenko	2186820
	07/29/2020	07/31/2020 08:00	Fe-Val Siddell	08/04/2020 11:07	Arthur Maknenko	2186822
EPA 8321B	07/29/2020	07/29/2020 12:00	Mohammad Ghaffari	07/29/2020 14:41	Mohammad Ghaffari	2186819
	07/29/2020	07/29/2020 12:00	Mohammad Ghaffari	07/29/2020 17:14	Mohammad Ghaffari	2186817
	07/29/2020	07/29/2020 12:00	Mohammad Ghaffari	07/30/2020 12:53	Rebecca Ware	2186817
	07/29/2020	07/29/2020 12:00	Mohammad Ghaffari	07/30/2020 13:07	Rebecca Ware	2186819
	07/29/2020	07/29/2020 12:00	Mohammad Ghaffari	07/31/2020 12:21	Rebecca Ware	2186817
	07/29/2020	07/29/2020 12:00	Mohammad Ghaffari	07/31/2020 12:32	Rebecca Ware	2186819
	07/29/2020	07/30/2020 14:00	Hoor Shaik	08/01/2020 19:52	Juyoung Kim	2186817
	07/29/2020	07/30/2020 14:00	Hoor Shaik	08/01/2020 20:26	Juyoung Kim	2186819
	07/29/2020	07/30/2020 14:00	Hoor Shaik	08/05/2020 04:29	Juyoung Kim	2186817
	07/29/2020	08/04/2020 09:00	Hoor Shaik	08/05/2020 16:43	Juyoung Kim	2186816
	07/29/2020	08/04/2020 09:00	Hoor Shaik	08/05/2020 17:18	Juyoung Kim	2186818
SM 2120 B-2011	07/29/2020			07/29/2020 15:19	Madeline Gruver	2186808
	07/29/2020			07/29/2020 15:20	Madeline Gruver	2186811
SM 2320 B-2011	07/29/2020			07/30/2020 18:31	Dale L. Simmons	2186811
	07/29/2020			07/30/2020 21:42	Dale L. Simmons	2186808

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2340B	07/29/2020			07/31/2020 13:33	Betina Topolski	2186825
	07/29/2020			07/31/2020 14:22	Betina Topolski	2186824
SM 2540 C-2011	07/29/2020			08/03/2020 15:02	Yijie Li	2186808, 2186811
SM 2540 D-2011	07/29/2020			08/03/2020 15:02	Yijie Li	2186808, 2186811
SM 4500 F-C-2011	07/29/2020			07/30/2020 18:31	Dale L. Simmons	2186811
	07/29/2020			07/30/2020 21:42	Dale L. Simmons	2186808
SM 5310 B-2011	07/29/2020			07/31/2020 04:08	David Boose	2186809
	07/29/2020			07/31/2020 04:21	David Boose	2186812