Chemical Analysis Report

SE-DIST-2021-06-18-01

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

Event Description: **SMP - Fort Pierce/Drum 07/21**
Request ID: **RQ-2021-06-07-36**
Customer: **SE-DIST**
Project ID: **SMP**

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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant Date Certified: 14-JUL-2021 09:48

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Fort Pierce Farm Canal @ Taylor Dairy **Collection Date/Time: 06/17/2021 09:15**

Field ID: G2SE0002 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2255866	EPA 180.1 Rev. 2.0	Turbidity	3.3		NTU	P399958	
	EPA 300.0 Rev. 2.1	Chloride	540		mg Cl/L	P400506	
		Sulfate	110		mg SO4/L	P400507	
	SM 2120 B-2011	Color (true)	37	A	PCU	P399956	
	SM 2320 B-2011	Total Alkalinity	171		mg CaCO3/L	P400371	
	SM 2540 C-2011	TDS	1.14E+03		mg/L	P400343	
	SM 2540 D-2011	TSS	6	I	mg/L	P400170	
	SM 4500 F-C-2011	Fluoride	0.54		mg F/L	P400374	
2255867	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P400334	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P400040	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P400028	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P400216	
	SM 5310 B-2011	Organic Carbon	9.1		mg C/L	P400360	
2255868	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P399948	
2255896	EPA 8321B	Aldicarb	0.020	U	ug/L	P399841	
		Aldicarb Sulfone	0.0020	U	ug/L	P399841	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P399841	
		Carbaryl	0.0020	U	ug/L	P399841	
		Carbofuran	0.0020	U	ug/L	P399841	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P399841	
		Methiocarb	0.0020	U	ug/L	P399841	
		Methomyl	0.0020	U	ug/L	P399841	
		Oxamyl	0.0020	U	ug/L	P399841	
		Propoxur	0.0020	U	ug/L	P399841	
2255897		2,4-D	0.068		ug/L	P399973	
		Acesulfame K	0.10	U	ug/L	P399865	
		2,4,5-T	0.0040	U	ug/L	P399973	
		AMPA	0.65		ug/L	P399865	
		Acetaminophen	0.0080	U	ug/L	P399973	
		Acetamiprid	0.0033	I	ug/L	P399973	
		Endothall	0.25	U	ug/L	P399865	
		Glufosinate	0.10	U	ug/L	P399865	
		Glyphosate	1.4		ug/L	P399865	
		Afidopyropen	0.0020	U	ug/L	P399973	MS, RPD
		Bentazon	0.088		ug/L	P399973	
		Sucralose	0.091		ug/L	P399865	
		Benzovindiflupyr	0.0020	U	ug/L	P399973	
		Carbamazepine	8.0E-04	U	ug/L	P399973	
		Clothianidin	0.0073	I	ug/L	P399973	
		Dinotefuran	0.020		ug/L	P399973	
		Diuron	0.0020	U	ug/L	P399973	
		Fenuron	0.016	U	ug/L	P399973	
		Fluridone	0.0016	I	ug/L	P399973	

Field ID: G2SE0002 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2255897	EPA 8321B	Imazapyr	0.18		ug/L	P399973	
		Hydrocodone	0.0020	U	ug/L	P399973	
		Ibuprofen	0.020	U	ug/L	P399973	
		Imidacloprid	0.0080		ug/L	P399973	
		Linuron	0.0040	U	ug/L	P399973	
		Mandestrobin	0.0020	U	ug/L	P399973	
		MCPP	0.0020	U	ug/L	P399973	
		Naproxen	0.0080	U	ug/L	P399973	
		Primidone	0.0040	U	ug/L	P399973	
		Pyraclostrobin	0.0020	U	ug/L	P399973	
		Thiamethoxam	0.025		ug/L	P399973	
		Tolfenpyrad	0.0020	U	ug/L	P399973	
		Triclopyr	0.0040	U	ug/L	P399973	
2255898	EPA 8270E	Aldrin	0.74	UJ	ng/L	P400005	RPD
		Alpha-BHC	0.11	U	ng/L	P400005	
		Alpha-Chlordane	0.23	U	ng/L	P400005	
		Beta-BHC	0.11	U	ng/L	P400005	
		Beta-Cyfluthrin**	1.4	U	ng/L	P400005	
		Bifenthrin**	0.57	UJ	ng/L	P400005	RPD
		Chlorothalonil	0.57	U	ng/L	P400005	
		Cis-Nonachlor**	0.23	U	ng/L	P400005	
		Cypermethrin	1.7	U	ng/L	P400005	
		Dacthal**	0.17	U	ng/L	P400005	
		DDD-p,p'	0.28	U	ng/L	P400005	
		DDE-p,p'	0.23	U	ng/L	P400005	
		DDT-p,p'	0.28	U	ng/L	P400005	MS
		Delta-BHC	0.45	U	ng/L	P400005	
		Deltamethrin**	1.4	U	ng/L	P400005	
		Dichlobenil**	0.11	U	ng/L	P400005	
		Dicofol	1.4	U	ng/L	P400005	
		Dieldrin	0.45	U	ng/L	P400005	
		Endosulfan I	0.45	U	ng/L	P400005	
		Endosulfan II	0.45	U	ng/L	P400005	
		Endosulfan Sulfate	0.34	U	ng/L	P400005	
		Endrin	0.45	U	ng/L	P400005	
		Endrin Aldehyde	0.85	U	ng/L	P400005	
		Endrin Ketone	0.45	U	ng/L	P400005	
		Esfenvalerate**	0.85	U	ng/L	P400005	
		Ethalfluralin**	0.17	U	ng/L	P400005	
		Fenpropathrin**	0.28	UJ	ng/L	P400005	RPD
		Gamma-BHC	0.14	U	ng/L	P400005	
		Gamma-Chlordane	0.32	I	ng/L	P400005	
		Heptachlor	0.23	U	ng/L	P400005	
		Heptachlor Epoxide	0.28	U	ng/L	P400005	
		Hexachlorobenzene	1.1	U	ng/L	P400005	MS

Field ID: G2SE0002 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2255898	EPA 8270E	Kepone**	5.7	UJ	ng/L	P400005	CCV
		Lambda-Cyhalothrin**	0.85	U	ng/L	P400005	
		Methoxychlor	0.34	U	ng/L	P400005	
		MGK-264**	0.23	U	ng/L	P400005	
		Mirex	0.34	UJ	ng/L	P400005	RPD
		Permethrin	1.8	U	ng/L	P400005	
		Phenothrin**	1.0	UJ	ng/L	P400005	RPD
		Piperonyl Butoxide**	0.37	I	ng/L	P400005	
		Prallethrin**	2.3	U	ng/L	P400005	
		Tau-Fluvalinate**	0.28	UJ	ng/L	P400005	RPD
		Tetramethrin**	0.85	U	ng/L	P400005	
		Trans-Nonachlor**	0.25	I	ng/L	P400005	
		Triclosan Methyl**	0.17	U	ng/L	P400005	
		Trifluralin	0.23	U	ng/L	P400005	
	EPA 8276	Chlordane	5.7	U	ng/L	P400005	
		Toxaphene	34	U	ng/L	P400005	
2255899	EPA 8270E	Acetochlor	0.28	U	ng/L	P399912	
		Alachlor	0.28	U	ng/L	P399912	
		Ametryn	0.68	U	ng/L	P399912	
		Atrazine	180		ng/L	P399912	
		Atrazine Desethyl	42		ng/L	P399912	
		Azinphos Methyl	2.3	U	ng/L	P399912	
		Azoxystrobin**	6.4		ng/L	P399912	
		Bromacil	4.3		ng/L	P399912	
		Butylate	0.45	U	ng/L	P399912	
		Caffeine**	8.5	U	ng/L	P399912	
		Carbophenothion	0.57	U	ng/L	P399912	
		Carfentrazone Ethyl**	0.11	U	ng/L	P399912	
		Chlorpyrifos Ethyl	0.28	U	ng/L	P399912	
		Chlorpyrifos Methyl	0.057	U	ng/L	P399912	
		Cyanazine	3.7	U	ng/L	P399912	
		Demeton	1.7	UJ	ng/L	P399912	LCS
		Diazinon	0.14	U	ng/L	P399912	
		Difenoconazole**	0.68	U	ng/L	P399912	
		Dimethenamid**	0.11	U	ng/L	P399912	
		Disulfoton	0.57	U	ng/L	P399912	
		Dithiopyr**	0.20	U	ng/L	P399912	
		EPTC	1.4	U	ng/L	P399912	
		Ethion	0.17	U	ng/L	P399912	RPD
		Ethoprop	0.11	U	ng/L	P399912	
		Fenamiphos	0.57	U	ng/L	P399912	
		Fenbuconazole**	2.7		ng/L	P399912	
		Fipronil	0.28	U	ng/L	P399912	
		Fipronil Desulfinyl**	0.14	U	ng/L	P399912	
		Fipronil Sulfide	0.17	U	ng/L	P399912	

Field ID: G2SE0002 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2255899	EPA 8270E	Fipronil Sulfone	0.17	U	ng/L	P399912	
		Fluazifop-P-butyl**	0.11	U	ng/L	P399912	
		Fludioxonil**	0.14	U	ng/L	P399912	
		Flumioxazin**	2.0	U	ng/L	P399912	
		Flutolanil**	0.11	U	ng/L	P399912	
		Fluxapyroxad**	0.47		ng/L	P399912	
		Fonofos	0.23	U	ng/L	P399912	
		Hexazinone	5.6		ng/L	P399912	
		Imazalil**	0.85	U	ng/L	P399912	
		Iprodione**	0.68	U	ng/L	P399912	
		Malathion	0.40	U	ng/L	P399912	
		Metalaxyl	99		ng/L	P399912	
		Metolachlor	180		ng/L	P399912	
		Metribuzin	3.7	U	ng/L	P399912	
		Mevinphos	1.2	U	ng/L	P399912	
		Molinate	0.34	U	ng/L	P399912	
		Myclobutanil**	0.28	U	ng/L	P399912	
		Naled**	1.7	U	ng/L	P399912	
		Norflurazon	86		ng/L	P399912	
		Oxadiazon	2.0		ng/L	P399912	
		Oxyfluorfen**	0.17	U	ng/L	P399912	
		Parathion Ethyl	0.28	U	ng/L	P399912	
		Parathion Methyl	0.62	U	ng/L	P399912	
		Pendimethalin	1.1	U	ng/L	P399912	
		Phorate	0.60	U	ng/L	P399912	MS
		Prodiamine**	0.20	U	ng/L	P399912	
		Prometon	1.0	U	ng/L	P399912	
		Prometryn	0.23	U	ng/L	P399912	
		Pronamide**	0.17	U	ng/L	P399912	
		Propiconazole**	0.57	U	ng/L	P399912	
		Pyriproxyfen**	0.14	U	ng/L	P399912	
		Simazine	0.57	U	ng/L	P399912	
		Sulfentrazone**	1.8	I	ng/L	P399912	
		Tebuconazole**	0.57	UJ	ng/L	P399912	RPD
		Terbufos	0.11	U	ng/L	P399912	
		Terbuthylazine	0.48	U	ng/L	P399912	

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 could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine and hexazinone 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.

Sample Location: Fort Drum Creek @ 441 **Collection Date/Time: 06/17/2021 10:20**

Field ID: G3SE0024 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2255869	EPA 180.1 Rev. 2.0	Turbidity	5.9		NTU	P399958	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P400506	
		Sulfate	4.0		mg SO4/L	P400507	
	SM 2120 B-2011	Color (true)	54		PCU	P399956	
	SM 2320 B-2011	Total Alkalinity	60		mg CaCO3/L	P400371	
	SM 2540 C-2011	TDS	90		mg/L	P400344	
	SM 2540 D-2011	TSS	8	I	mg/L	P400171	
	SM 4500 F-C-2011	Fluoride	0.063	I	mg F/L	P400374	
2255871	EPA 350.1 Rev. 2.0	Ammonia-N	0.088		mg N/L	P400334	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P400318	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P400028	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P400216	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P400361	
2255873	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.060		mg P/L	P399948	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Sweetwater Branch @ 441 **Collection Date/Time: 06/17/2021 10:40**

Field ID: G3SE0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2255895	EPA 8321B	2,4-D	0.0020	U	ug/L	P399973	
		Acesulfame K	0.10	U	ug/L	P399865	
		2,4,5-T	0.0040	U	ug/L	P399973	
		AMPA	0.10	U	ug/L	P399865	
		Acetaminophen	0.0080	U	ug/L	P399973	
		Acetamiprid	0.0020	U	ug/L	P399973	
		Endothall	0.25	U	ug/L	P399865	
		Glufosinate	0.10	U	ug/L	P399865	
		Glyphosate	0.10	U	ug/L	P399865	
		Afidopyropen	0.0020	U	ug/L	P399973	MS, RPD
		Bentazon	8.0E-04	U	ug/L	P399973	
		Sucralose	0.010	U	ug/L	P399865	
		Benzovindiflupyr	0.0020	U	ug/L	P399973	
		Carbamazepine	8.0E-04	U	ug/L	P399973	
		Clothianidin	0.0020	U	ug/L	P399973	
		Dinotefuran	0.0020	U	ug/L	P399973	
		Diuron	0.0020	U	ug/L	P399973	
		Fenuron	0.016	U	ug/L	P399973	
		Fluridone	8.0E-04	U	ug/L	P399973	
		Imazapyr	0.0071	I	ug/L	P399973	
		Hydrocodone	0.0020	U	ug/L	P399973	
		Ibuprofen	0.020	U	ug/L	P399973	
		Imidacloprid	0.0020	U	ug/L	P399973	
		Linuron	0.0040	U	ug/L	P399973	
		Mandestrobin	0.0020	U	ug/L	P399973	
		MCPP	0.0020	U	ug/L	P399973	
		Naproxen	0.0080	U	ug/L	P399973	
		Primidone	0.0040	U	ug/L	P399973	
		Pyraclostrobin	0.0020	U	ug/L	P399973	
		Thiamethoxam	0.0020	U	ug/L	P399973	
		Tolfenpyrad	0.0020	U	ug/L	P399973	
		Triclopyr	0.0040	U	ug/L	P399973	

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

Sample Location: Padgett Branch @ 441 **Collection Date/Time: 06/17/2021 11:00**

Field ID: G3SE0026 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2255870	EPA 180.1 Rev. 2.0	Turbidity	2.3	A	NTU	P399958	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P400506	
		Sulfate	2.9		mg SO4/L	P400507	
	SM 2120 B-2011	Color (true)	270		PCU	P399956	
	SM 2320 B-2011	Total Alkalinity	31		mg CaCO3/L	P400371	
	SM 2540 C-2011	TDS	115		mg/L	P400344	
	SM 2540 D-2011	TSS	3	I	mg/L	P400171	
	SM 4500 F-C-2011	Fluoride	0.087	I	mg F/L	P400374	
2255872	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P400334	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P400040	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P400028	
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P400298	
	SM 5310 B-2011	Organic Carbon	27		mg C/L	P400361	
2255874	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.21		mg P/L	P399948	

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399958

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400506

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400507

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400334

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400040

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400318

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400028

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400216

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400298

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399948

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

Reference Method: EPA 8270E
Batch ID: P399912

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P399912

Component	Result	Code	Units
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	3.2	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P399912

Component	Result	Code	Units
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P400005

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	0.50	U	ng/L
Chlorothalonil	0.50	U	ng/L
Cis-Nonachlor	0.20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P400005

Component	Result	Code	Units
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.10	U	ng/L
Dichlobenil	0.10	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P400005

Component	Result	Code	Units
Lambda-Cyhalothrin	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.30	U	ng/L
Mirex	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P400005

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

Reference Method: EPA 8321B
Batch ID: P399841

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P399865

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: P399973

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	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: SM 2120 B-2011
Batch ID: P399956

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P400371

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P400343

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P400344

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P400170

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P400171

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P400374

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P400360

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

Reference Method: SM 5310 B-2011
Batch ID: P400361

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400506

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400507

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400334

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400040

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400318

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400028

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400216

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400298

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399948

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P399912

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	112	100	P/P	70 - 121
Alachlor	108	95.5	P/P	70 - 119
Ametryn	94.7	97.1	P/P	61 - 135
Atrazine	99.8	100	P/P	76 - 123
Atrazine Desethyl	72.3	69.9	P/P	35 - 140
Azinphos Methyl	111	127	P/P	57 - 163
Azoxystrobin	97.1	102	P/P	43 - 231
Bromacil	91.6	86.9	P/P	42 - 123
Butylate	59.9	60.0	P/P	34 - 92.0
Caffeine	81.7	78.3	P/P	70 - 130
Carbophenothion	103	101	P/P	61 - 121
Carfentrazone Ethyl	120	110	P/P	62 - 139
Chlorpyrifos Ethyl	90.4	86.6	P/P	67 - 121
Chlorpyrifos Methyl	87.8	89.0	P/P	67 - 120
Cyanazine	118	109	P/P	20 - 226
Demeton	30.3	29.9	F/F	35 - 125
Diazinon	100	97.8	P/P	70 - 122
Difenoconazole	126	151	P/P	56 - 186
Dimethenamid	84.9	77.7	P/P	67 - 119
Disulfoton	74.9	74.0	P/P	47 - 120
Dithiopyr	96.5	85.1	P/P	67 - 118
EPTC	39.2	40.9	P/P	33 - 90.0
Ethion	90.6	80.9	P/P	40 - 133
Ethoprop	77.0	83.1	P/P	61 - 121
Fenamiphos	97.6	95.4	P/P	31 - 139
Fenbuconazole	114	106	P/P	66 - 141
Fipronil	110	97.9	P/P	62 - 129
Fipronil Desulfinyl	117	101	P/P	59 - 126
Fipronil Sulfide	92.1	85.1	P/P	63 - 117
Fipronil Sulfone	89.4	81.1	P/P	57 - 117
Fluazifop-P-butyl	103	97.4	P/P	63 - 124
Fludioxonil	108	95.8	P/P	63 - 123
Flumioxazin	137	164	P/P	34 - 245
Flutolanil	102	90.3	P/P	56 - 131
Fluxapyroxad	99.3	86.1	P/P	57 - 117
Fonofos	77.7	81.6	P/P	61 - 116
Hexazinone	94.4	89.1	P/P	55 - 138
Imazalil	102	95.2	P/P	33 - 143
Iprodione	111	101	P/P	59 - 118
Malathion	105	105	P/P	62 - 138
Metalaxyl	105	93.6	P/P	24 - 147
Metolachlor	106	96.2	P/P	68 - 118
Metribuzin	98.6	98.9	P/P	20 - 239
Mevinphos	63.0	69.8	P/P	46 - 124
Molinate	49.2	56.4	P/P	46 - 100
Myclobutanil	98.4	92.4	P/P	32 - 149
Naled	38.8	43.8	P/P	32 - 95.0
Norflurazon	97.9	87.3	P/P	57 - 127
Oxadiazon	97.9	87.5	P/P	63 - 118
Oxyfluorfen	112	112	P/P	69 - 137
Parathion Ethyl	88.5	89.8	P/P	70 - 113
Parathion Methyl	99.8	104	P/P	71 - 130

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P399912

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pendimethalin	86.8	89.0	P/P	55 - 118
Phorate	103	105	P/P	46 - 125
Prodiamine	44.1	48.4	P/P	20 - 141
Prometon	91.9	86.5	P/P	54 - 122
Prometryn	98.7	92.3	P/P	66 - 124
Pronamide	97.1	95.9	P/P	79 - 122
Propiconazole	104	88.2	P/P	61 - 126
Pyriproxyfen	97.3	93.5	P/P	52 - 131
Simazine	86.7	86.5	P/P	75 - 128
Sulfentrazone	85.9	77.1	P/P	20 - 132
Tebuconazole	94.3	63.7	P/P	20 - 116
Terbufos	91.3	93.5	P/P	61 - 117
Terbuthylazine	102	89.6	P/P	74 - 116

Reference Method: EPA 8270E
Batch ID: P400005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	60.4	43.0	P/P	20 - 150
Alpha-BHC	94.7	89.1	P/P	50 - 150
Alpha-Chlordane	86.0	67.6	P/P	50 - 170
Beta-BHC	87.9	91.6	P/P	50 - 150
Beta-Cyfluthrin	115	89.6	P/P	50 - 170
Bifenthrin	85.0	60.1	P/P	40 - 150
Chlorothalonil	127	124	P/P	20 - 150
Cis-Nonachlor	95.5	75.7	P/P	50 - 150
Cypermethrin	139	106	P/P	50 - 150
Dacthal	102	92.8	P/P	50 - 150
DDD-p,p'	101	77.9	P/P	50 - 150
DDE-p,p'	88.0	68.8	P/P	50 - 170
DDT-p,p'	91.0	70.7	P/P	50 - 170
Delta-BHC	107	109	P/P	50 - 150
Deltamethrin	96.0	73.8	P/P	50 - 170
Dichlobenil	62.4	69.1	P/P	40 - 150
Dicofol	90.3	70.9	P/P	50 - 170
Dieldrin	89.1	67.3	P/P	50 - 150
Endosulfan I	110	81.4	P/P	50 - 150
Endosulfan II	130	115	P/P	50 - 150
Endosulfan Sulfate	93.1	83.6	P/P	50 - 150
Endrin	120	97.8	P/P	50 - 150
Endrin Aldehyde	85.6	72.3	P/P	50 - 150
Endrin Ketone	103	97.1	P/P	50 - 150
Esfenvalerate	167	132	P/P	50 - 180
Ethalfluralin	82.0	64.1	P/P	50 - 150
Fenpropathrin	103	75.2	P/P	50 - 150
Gamma-BHC	96.2	88.5	P/P	50 - 150
Gamma-Chlordane	104	84.9	P/P	50 - 150
Heptachlor	80.9	60.3	P/P	50 - 150
Heptachlor Epoxide	102	84.7	P/P	50 - 150
Hexachlorobenzene	77.7	60.3	P/P	50 - 150
Kepone	130	124	P/P	30 - 180
Lambda-Cyhalothrin	162	131	P/P	50 - 200

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P400005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoxychlor	98.6	87.1	P/P	50 - 150
MGK-264	91.0	82.9	P/P	30 - 150
Mirex	111	81.1	P/P	50 - 180
Permethrin	127	94.2	P/P	50 - 150
Phenothrin	69.8	47.1	P/P	20 - 150
Piperonyl Butoxide	81.4	65.2	P/P	50 - 150
Prallethrin	89.5	83.6	P/P	30 - 150
Tau-Fluvalinate	122	86.6	P/P	40 - 150
Tetramethrin	75.0	58.1	P/P	30 - 150
Trans-Nonachlor	83.4	64.6	P/P	50 - 170
Triclosan Methyl	94.3	76.3	P/P	50 - 170
Trifluralin	82.9	63.7	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P400005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.2	101	P/P	56 - 117
Toxaphene	96.1	93.4	P/P	45 - 116

Reference Method: EPA 8321B
Batch ID: P399841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.4		P	30 - 160
Aldicarb	70.9		P	30 - 150
Aldicarb Sulfone	56.2		P	30 - 160
Aldicarb Sulfoxide	97.3		P	30 - 160
Carbaryl	73.7		P	30 - 160
Carbofuran	69.6		P	30 - 160
Methiocarb	68.2		P	30 - 160
Methomyl	90.4		P	30 - 160
Oxamyl	85.7		P	30 - 160
Propoxur	75.2		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P399865

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	80.5		P	40 - 150
AMPA	99.4		P	40 - 150
Endothall	71.4		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	103		P	40 - 150
Sucralose	102		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P399973

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	104		P	30 - 160
2,4,5-T	98.0		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P399973

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	78.3		P	30 - 160
Acetamiprid	75.5		P	30 - 160
Afidopyropen	71.5		P	30 - 160
Bentazon	76.8		P	30 - 160
Benzovindiflupyr	84.2		P	30 - 160
Carbamazepine	88.8		P	30 - 160
Clothianidin	81.4		P	30 - 160
Dinotefuran	88.5		P	30 - 160
Diuron	79.9		P	30 - 160
Fenuron	89.1		P	30 - 160
Fluridone	90.7		P	30 - 160
Hydrocodone	78.0		P	30 - 160
Ibuprofen	77.0		P	30 - 160
Imazapyr	110		P	30 - 160
Imidacloprid	81.6		P	30 - 160
Linuron	72.2		P	30 - 160
Mandestrobin	101		P	30 - 160
MCPP	101		P	30 - 160
Naproxen	101		P	30 - 160
Primidone	90.5		P	30 - 160
Pyraclostrobin	78.0		P	30 - 160
Thiamethoxam	90.2		P	30 - 160
Tolfenpyrad	52.3		P	30 - 160
Triclopyr	93.3		P	30 - 160

Reference Method: SM 2120 B-2011
Batch ID: P399956

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.7		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P400371

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P400374

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P400360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.1		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P400361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255816	Chloride	98.6		P	90 - 110
2256031	Chloride	96.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400507

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255816	Sulfate	95.8		P	90 - 110
2256031	Sulfate	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400334

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255650	Ammonia-N	97.4	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255818	Kjeldahl Nitrogen	104	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255818	NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255650	Total-P	106	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255926	Total-P	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255821	O-Phosphate-P	97.8	97.3	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P399912

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255159	Acetochlor	106	113	P/P	66 - 122
2255159	Alachlor	90.7	103	P/P	65 - 122

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P399912

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255159	Ametryn	92.9	86.5	P/P	45 - 173
2255159	Atrazine Desethyl	80.5	85.1	P/P	25 - 150
2255159	Azinphos Methyl	129	122	P/P	44 - 174
2255159	Azoxystrobin	107	123	P/P	10 - 268
2255159	Bromacil	82.3	94.6	P/P	31 - 145
2255159	Butylate	71.4	95.5	P/P	15 - 97.0
2255159	Caffeine	103	104	P/P	70 - 130
2255159	Carbophenothion	94.6	98.7	P/P	42 - 129
2255159	Carfentrazone Ethyl	101	104	P/P	62 - 145
2255159	Chlorpyrifos Ethyl	85.7	92.4	P/P	60 - 124
2255159	Chlorpyrifos Methyl	87.6	90.9	P/P	66 - 119
2255159	Cyanazine	97.9	110	P/P	17 - 225
2255159	Demeton	46.6	48.6	P/P	36 - 142
2255159	Diazinon	99.1	109	P/P	70 - 128
2255159	Difenoconazole	148	137	P/P	33 - 222
2255159	Dimethenamid	78.1	79.8	P/P	54 - 125
2255159	Disulfoton	91.9	69.4	P/P	49 - 133
2255159	Dithiopyr	84.4	96.9	P/P	55 - 123
2255159	EPTC	44.3	52.8	P/P	19 - 91.0
2255159	Ethion	63.7	44.2	P/P	13 - 143
2255159	Ethoprop	87.1	97.5	P/P	49 - 144
2255159	Fenamiphos	85.6	80.8	P/P	32 - 136
2255159	Fenbuconazole	101	107	P/P	73 - 148
2255159	Fipronil	95.2	96.4	P/P	57 - 129
2255159	Fipronil Desulfinyl	95.1	100	P/P	49 - 127
2255159	Fipronil Sulfide	76.0	73.8	P/P	44 - 127
2255159	Fipronil Sulfone	72.8	85.0	P/P	35 - 126
2255159	Fluazifop-P-butyl	90.7	97.8	P/P	67 - 129
2255159	Fludioxonil	90.9	92.8	P/P	61 - 126
2255159	Flumioxazin	173	172	P/P	38 - 279
2255159	Flutolanil	80.6	85.9	P/P	55 - 136
2255159	Fluxapyroxad	86.2	80.0	P/P	33 - 140
2255159	Fonofos	81.4	92.2	P/P	58 - 125
2255159	Imazalil	114	95.1	P/P	10 - 221
2255159	Iprodione	95.3	96.5	P/P	32 - 140
2255159	Malathion	96.5	103	P/P	52 - 138
2255159	Metalaxyl	87.8	96.1	P/P	46 - 134
2255159	Metolachlor	92.6	102	P/P	58 - 122
2255159	Metribuzin	96.8	119	P/P	16 - 272
2255159	Mevinphos	76.6	87.6	P/P	45 - 140
2255159	Molinate	61.2	72.5	P/P	41 - 103
2255159	Myclobutanil	86.6	88.3	P/P	60 - 134
2255159	Naled	50.8	58.4	P/P	20 - 113
2255159	Norflurazon	86.0	88.9	P/P	51 - 123
2255159	Oxadiazon	85.0	86.2	P/P	44 - 125
2255159	Oxyfluorfen	113	106	P/P	66 - 176
2255159	Parathion Ethyl	87.5	96.7	P/P	57 - 132
2255159	Parathion Methyl	101	115	P/P	59 - 156
2255159	Pendimethalin	93.3	102	P/P	59 - 129
2255159	Phorate	145	161	F/F	47 - 136
2255159	Prodiamine	58.1	63.2	P/P	10 - 159
2255159	Prometon	84.3	96.3	P/P	59 - 127

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P399912

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255159	Prometryn	85.0	89.4	P/P	59 - 129
2255159	Pronamide	100	108	P/P	65 - 145
2255159	Propiconazole	86.1	92.5	P/P	28 - 165
2255159	Pyriproxyfen	88.0	116	P/P	21 - 180
2255159	Simazine	92.4	109	P/P	63 - 147
2255159	Sulfentrazone	79.8	83.9	P/P	32 - 136
2255159	Tebuconazole	66.0	53.5	P/P	10 - 117
2255159	Terbufos	98.5	110	P/P	61 - 131
2255159	Terbuthylazine	70.6	79.5	P/P	62 - 126

Reference Method: EPA 8270E
Batch ID: P400005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255992	Aldrin	40.9	48.2	P/P	20 - 170
2255992	Alpha-BHC	94.0	101	P/P	50 - 170
2255992	Alpha-Chlordane	88.4	99.0	P/P	50 - 170
2255992	Beta-BHC	126	122	P/P	50 - 170
2255992	Beta-Cyfluthrin	123	143	P/P	50 - 170
2255992	Bifenthrin	48.2	58.4	P/P	40 - 170
2255992	Chlorothalonil	159	150	P/P	20 - 170
2255992	Cis-Nonachlor	73.5	86.7	P/P	50 - 170
2255992	Cypermethrin	96.3	115	P/P	50 - 170
2255992	Dacthal	104	105	P/P	50 - 170
2255992	DDD-p,p'	80.0	91.7	P/P	50 - 170
2255992	DDE-p,p'	64.4	78.3	P/P	50 - 170
2255992	DDT-p,p'	47.8	54.7	F/P	50 - 170
2255992	Delta-BHC	137	142	P/P	50 - 170
2255992	Deltamethrin	80.9	65.2	P/P	50 - 170
2255992	Dichlobenil	45.4	42.8	P/P	40 - 170
2255992	Dicofol	50.5	55.3	P/P	50 - 170
2255992	Dieldrin	76.4	87.7	P/P	50 - 170
2255992	Endosulfan I	101	106	P/P	50 - 170
2255992	Endosulfan II	117	121	P/P	50 - 170
2255992	Endosulfan Sulfate	92.2	90.3	P/P	50 - 170
2255992	Endrin	98.2	109	P/P	50 - 170
2255992	Endrin Aldehyde	78.0	81.6	P/P	50 - 170
2255992	Endrin Ketone	111	109	P/P	50 - 170
2255992	Esfenvalerate	111	134	P/P	50 - 180
2255992	Ethalfluralin	60.9	70.4	P/P	50 - 170
2255992	Fenpropathrin	64.0	85.1	P/P	50 - 170
2255992	Gamma-BHC	99.4	107	P/P	50 - 170
2255992	Gamma-Chlordane	77.3	93.2	P/P	50 - 170
2255992	Heptachlor	53.0	59.5	P/P	50 - 170
2255992	Heptachlor Epoxide	90.4	95.7	P/P	50 - 170
2255992	Hexachlorobenzene	49.7	56.5	F/P	50 - 170
2255992	Kepone	154	148	P/P	30 - 180
2255992	Lambda-Cyhalothrin	109	134	P/P	50 - 200
2255992	Methoxychlor	89.9	92.3	P/P	50 - 170
2255992	MGK-264	99.5	103	P/P	30 - 170
2255992	Mirex	66.3	83.9	P/P	50 - 180
2255992	Permethrin	84.6	105	P/P	50 - 170

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P400005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255992	Phenothrin	74.8	76.7	P/P	20 - 170
2255992	Piperonyl Butoxide	77.8	80.2	P/P	50 - 170
2255992	Prallethrin	84.9	92.0	P/P	30 - 170
2255992	Tau-Fluvalinate	76.9	89.9	P/P	40 - 170
2255992	Tetramethrin	64.9	75.6	P/P	30 - 170
2255992	Trans-Nonachlor	82.1	91.5	P/P	50 - 170
2255992	Triclosan Methyl	102	106	P/P	50 - 170
2255992	Trifluralin	60.6	72.8	P/P	50 - 170

Reference Method: EPA 8276
Batch ID: P400005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2256046	Chlordane	93.6	91.5	P/P	47 - 128
2256046	Toxaphene	90.5	86.0	P/P	11 - 163

Reference Method: EPA 8321B
Batch ID: P399841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255371	3-Hydroxycarbofuran	80.2	80.4	P/P	30 - 160
2255371	Aldicarb	78.9	71.8	P/P	30 - 150
2255371	Aldicarb Sulfone	89.5	84.1	P/P	30 - 160
2255371	Aldicarb Sulfoxide	55.2	50.5	P/P	30 - 160
2255371	Carbaryl	51.1	48.8	P/P	30 - 160
2255371	Carbofuran	52.2	49.7	P/P	30 - 160
2255371	Methiocarb	71.0	59.7	P/P	30 - 160
2255371	Methomyl	78.4	73.8	P/P	30 - 160
2255371	Oxamyl	75.7	74.8	P/P	30 - 160
2255371	Propoxur	56.3	52.0	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P399865

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255020	Acesulfame K	84.0	86.4	P/P	40 - 150
2255020	AMPA	95.1	97.3	P/P	40 - 150
2255020	Endothall	70.2	82.7	P/P	40 - 150
2255020	Glufosinate	103	105	P/P	40 - 150
2255020	Glyphosate	106	111	P/P	40 - 150
2255020	Sucralose	99.7	103	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P399973

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255827	2,4,5-T	104	87.5	P/P	30 - 160
2255827	Acetaminophen	97.1	89.2	P/P	30 - 160
2255827	Acetamiprid	77.8	58.4	P/P	30 - 160
2255827	Afidopyropen	67.5	6.62	P/F	30 - 160
2255827	Bentazon	64.4	59.5	P/P	30 - 160
2255827	Benzovindiflupyr	89.4	78.1	P/P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P399973

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255827	Carbamazepine	97.2	89.8	P/P	30 - 160
2255827	Clothianidin	95.7	99.6	P/P	30 - 160
2255827	Dinotefuran	114	93.7	P/P	30 - 160
2255827	Diuron	77.8	71.8	P/P	30 - 160
2255827	Fenuron	88.0	84.8	P/P	30 - 160
2255827	Fluridone	91.5	81.3	P/P	30 - 160
2255827	Hydrocodone	111	86.8	P/P	30 - 160
2255827	Ibuprofen	91.3	82.4	P/P	30 - 160
2255827	Imazapyr	158	140	P/P	30 - 160
2255827	Imidacloprid	127	116	P/P	30 - 160
2255827	Linuron	72.1	61.6	P/P	30 - 160
2255827	Mandestrobin	107	88.5	P/P	30 - 160
2255827	MCPP	104	93.8	P/P	30 - 160
2255827	Naproxen	80.3	97.0	P/P	30 - 160
2255827	Primidone	103	98.0	P/P	30 - 160
2255827	Pyraclostrobin	80.6	75.0	P/P	30 - 160
2255827	Thiamethoxam	128	117	P/P	30 - 160
2255827	Tolfenpyrad	54.2	48.1	P/P	30 - 160
2255827	Triclopyr	105	93.6	P/P	30 - 160

Reference Method: SM 4500 F-C-2011
Batch ID: P400374

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255491	Fluoride	98.2	97.2	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P400360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255650	Organic Carbon	100	100	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P400361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2255871	Organic Carbon	96.4	97.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255870	Turbidity	0.438	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2256031	Chloride	0.439	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2256031	Sulfate	0.675	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255650	Ammonia-N	0.990	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255818	Kjeldahl Nitrogen	1.12	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400318

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2254666	Kjeldahl Nitrogen	1.03	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255818	NO2NO3-N	0.506	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255650	Total-P	0.785	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400298

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255926	Total-P	1.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255821	O-Phosphate-P	0.513	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P399912

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255159	Acetochlor	6.40	Spike	P	0 - 30
2255159	Alachlor	13.0	Spike	P	0 - 30
2255159	Ametryn	7.11	Spike	P	0 - 30
2255159	Atrazine	5.98	Spike	P	0 - 30
2255159	Atrazine Desethyl	5.55	Spike	P	0 - 30
2255159	Azinphos Methyl	5.80	Spike	P	0 - 30
2255159	Azoxystrobin	14.3	Spike	P	0 - 30
2255159	Bromacil	13.8	Spike	P	0 - 30
2255159	Butylate	28.9	Spike	P	0 - 30
2255159	Caffeine	0.609	Spike	P	0 - 30
2255159	Carbophenothion	4.23	Spike	P	0 - 30
2255159	Carfentrazone Ethyl	2.37	Spike	P	0 - 30
2255159	Chlorpyrifos Ethyl	7.52	Spike	P	0 - 30
2255159	Chlorpyrifos Methyl	3.66	Spike	P	0 - 30
2255159	Cyanazine	11.6	Spike	P	0 - 30
2255159	Demeton	4.32	Spike	P	0 - 30
2255159	Diazinon	9.75	Spike	P	0 - 30
2255159	Difenoconazole	7.65	Spike	P	0 - 30
2255159	Dimethenamid	2.14	Spike	P	0 - 30
2255159	Disulfoton	27.9	Spike	P	0 - 30
2255159	Dithiopyr	13.7	Spike	P	0 - 30
2255159	EPTC	17.5	Spike	P	0 - 30
2255159	Ethion	36.0	Spike	F	0 - 30
2255159	Ethoprop	11.3	Spike	P	0 - 30
2255159	Fenamiphos	5.74	Spike	P	0 - 30
2255159	Fenbuconazole	6.02	Spike	P	0 - 30
2255159	Fipronil	1.21	Spike	P	0 - 30
2255159	Fipronil Desulfinyl	5.09	Spike	P	0 - 30
2255159	Fipronil Sulfide	2.98	Spike	P	0 - 30
2255159	Fipronil Sulfone	14.0	Spike	P	0 - 30
2255159	Fluazifop-P-butyl	7.60	Spike	P	0 - 30
2255159	Fludioxonil	2.07	Spike	P	0 - 30
2255159	Flumioxazin	0.614	Spike	P	0 - 30
2255159	Flutolanil	6.30	Spike	P	0 - 30
2255159	Fluxapyroxad	7.13	Spike	P	0 - 30
2255159	Fonofos	12.5	Spike	P	0 - 30
2255159	Hexazinone	11.3	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P399912

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255159	Imazalil	18.0	Spike	P	0 - 30
2255159	Iprodione	1.27	Spike	P	0 - 30
2255159	Malathion	6.59	Spike	P	0 - 30
2255159	Metalaxyl	9.00	Spike	P	0 - 30
2255159	Metolachlor	8.99	Spike	P	0 - 30
2255159	Metribuzin	20.6	Spike	P	0 - 30
2255159	Mevinphos	13.3	Spike	P	0 - 30
2255159	Molinate	16.9	Spike	P	0 - 30
2255159	Myclobutanil	1.95	Spike	P	0 - 30
2255159	Naled	13.8	Spike	P	0 - 30
2255159	Norflurazon	3.32	Spike	P	0 - 30
2255159	Oxadiazon	1.44	Spike	P	0 - 30
2255159	Oxyfluorfen	6.65	Spike	P	0 - 30
2255159	Parathion Ethyl	9.93	Spike	P	0 - 30
2255159	Parathion Methyl	12.8	Spike	P	0 - 30
2255159	Pendimethalin	9.34	Spike	P	0 - 30
2255159	Phorate	10.4	Spike	P	0 - 30
2255159	Prodiamine	8.44	Spike	P	0 - 30
2255159	Prometon	13.2	Spike	P	0 - 30
2255159	Prometryn	5.11	Spike	P	0 - 30
2255159	Pronamide	7.47	Spike	P	0 - 30
2255159	Propiconazole	7.17	Spike	P	0 - 30
2255159	Pyriproxyfen	27.1	Spike	P	0 - 30
2255159	Simazine	11.8	Spike	P	0 - 30
2255159	Sulfentrazone	5.04	Spike	P	0 - 30
2255159	Tebuconazole	21.0	Spike	P	0 - 30
2255159	Terbufos	11.1	Spike	P	0 - 30
2255159	Terbuthylazine	9.44	Spike	P	0 - 30
LFB	Acetochlor	11.4	LCS	P	0 - 30
LFB	Alachlor	12.6	LCS	P	0 - 30
LFB	Ametryn	2.42	LCS	P	0 - 30
LFB	Atrazine	0.128	LCS	P	0 - 30
LFB	Atrazine Desethyl	3.36	LCS	P	0 - 30
LFB	Azinphos Methyl	13.7	LCS	P	0 - 30
LFB	Azoxystrobin	5.38	LCS	P	0 - 30
LFB	Bromacil	5.23	LCS	P	0 - 30
LFB	Butylate	0.124	LCS	P	0 - 30
LFB	Caffeine	4.29	LCS	P	0 - 30
LFB	Carbophenothion	1.88	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	8.87	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	4.35	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.33	LCS	P	0 - 30
LFB	Cyanazine	7.70	LCS	P	0 - 30
LFB	Demeton	1.47	LCS	P	0 - 30
LFB	Diazinon	2.54	LCS	P	0 - 30
LFB	Difenoconazole	17.6	LCS	P	0 - 30
LFB	Dimethenamid	8.82	LCS	P	0 - 30
LFB	Disulfoton	1.21	LCS	P	0 - 30
LFB	Dithiopyr	12.5	LCS	P	0 - 30
LFB	EPTC	4.26	LCS	P	0 - 30
LFB	Ethion	11.3	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P399912

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Ethoprop	7.51	LCS	P	0 - 30
LFB	Fenamiphos	2.32	LCS	P	0 - 30
LFB	Fenbuconazole	7.51	LCS	P	0 - 30
LFB	Fipronil	11.3	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	15.5	LCS	P	0 - 30
LFB	Fipronil Sulfide	7.97	LCS	P	0 - 30
LFB	Fipronil Sulfone	9.84	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	5.89	LCS	P	0 - 30
LFB	Fludioxonil	12.2	LCS	P	0 - 30
LFB	Flumioxazin	18.4	LCS	P	0 - 30
LFB	Flutolanil	12.6	LCS	P	0 - 30
LFB	Fluxapyroxad	14.3	LCS	P	0 - 30
LFB	Fonofos	4.88	LCS	P	0 - 30
LFB	Hexazinone	5.77	LCS	P	0 - 30
LFB	Imazalil	6.82	LCS	P	0 - 30
LFB	Iprodione	10.1	LCS	P	0 - 30
LFB	Malathion	0.621	LCS	P	0 - 30
LFB	Metalaxyl	11.3	LCS	P	0 - 30
LFB	Metolachlor	9.20	LCS	P	0 - 30
LFB	Metribuzin	0.245	LCS	P	0 - 30
LFB	Mevinphos	10.2	LCS	P	0 - 30
LFB	Molinate	13.6	LCS	P	0 - 30
LFB	Myclobutanil	6.26	LCS	P	0 - 30
LFB	Naled	12.1	LCS	P	0 - 30
LFB	Norflurazon	11.4	LCS	P	0 - 30
LFB	Oxadiazon	11.2	LCS	P	0 - 30
LFB	Oxyfluorfen	0.167	LCS	P	0 - 30
LFB	Parathion Ethyl	1.44	LCS	P	0 - 30
LFB	Parathion Methyl	3.66	LCS	P	0 - 30
LFB	Pendimethalin	2.39	LCS	P	0 - 30
LFB	Phorate	1.38	LCS	P	0 - 30
LFB	Prodiamine	9.34	LCS	P	0 - 30
LFB	Prometon	6.14	LCS	P	0 - 30
LFB	Prometryn	6.69	LCS	P	0 - 30
LFB	Pronamide	1.28	LCS	P	0 - 30
LFB	Propiconazole	16.8	LCS	P	0 - 30
LFB	Pyriproxyfen	3.97	LCS	P	0 - 30
LFB	Simazine	0.195	LCS	P	0 - 30
LFB	Sulfentrazone	10.9	LCS	P	0 - 30
LFB	Tebuconazole	38.7	LCS	F	0 - 30
LFB	Terbufos	2.35	LCS	P	0 - 30
LFB	Terbuthylazine	13.0	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P400005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255992	Aldrin	16.4	Spike	P	0 - 30
2255992	Alpha-BHC	7.15	Spike	P	0 - 30
2255992	Alpha-Chlordane	11.4	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P400005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255992	Beta-BHC	3.50	Spike	P	0 - 30
2255992	Beta-Cyfluthrin	14.9	Spike	P	0 - 30
2255992	Bifenthrin	19.2	Spike	P	0 - 30
2255992	Chlorothalonil	5.87	Spike	P	0 - 50
2255992	Cis-Nonachlor	16.5	Spike	P	0 - 30
2255992	Cypermethrin	17.5	Spike	P	0 - 30
2255992	Dacthal	1.06	Spike	P	0 - 30
2255992	DDD-p,p'	13.6	Spike	P	0 - 30
2255992	DDE-p,p'	19.4	Spike	P	0 - 30
2255992	DDT-p,p'	13.5	Spike	P	0 - 30
2255992	Delta-BHC	3.94	Spike	P	0 - 30
2255992	Deltamethrin	21.5	Spike	P	0 - 30
2255992	Dichlobenil	5.82	Spike	P	0 - 30
2255992	Dicofol	9.25	Spike	P	0 - 30
2255992	Dieldrin	13.8	Spike	P	0 - 30
2255992	Endosulfan I	4.15	Spike	P	0 - 30
2255992	Endosulfan II	3.55	Spike	P	0 - 30
2255992	Endosulfan Sulfate	2.09	Spike	P	0 - 30
2255992	Endrin	10.2	Spike	P	0 - 30
2255992	Endrin Aldehyde	4.54	Spike	P	0 - 30
2255992	Endrin Ketone	1.57	Spike	P	0 - 30
2255992	Esfenvalerate	18.8	Spike	P	0 - 30
2255992	Ethalfluralin	14.5	Spike	P	0 - 30
2255992	Fenpropathrin	28.2	Spike	P	0 - 30
2255992	Gamma-BHC	6.96	Spike	P	0 - 30
2255992	Gamma-Chlordane	18.7	Spike	P	0 - 30
2255992	Heptachlor	11.6	Spike	P	0 - 30
2255992	Heptachlor Epoxide	5.72	Spike	P	0 - 30
2255992	Hexachlorobenzene	12.8	Spike	P	0 - 30
2255992	Kepone	4.22	Spike	P	0 - 30
2255992	Lambda-Cyhalothrin	20.3	Spike	P	0 - 30
2255992	Methoxychlor	2.63	Spike	P	0 - 30
2255992	MGK-264	3.90	Spike	P	0 - 30
2255992	Mirex	23.5	Spike	P	0 - 30
2255992	Permethrin	21.4	Spike	P	0 - 30
2255992	Phenothrin	2.51	Spike	P	0 - 30
2255992	Piperonyl Butoxide	3.13	Spike	P	0 - 30
2255992	Prallethrin	8.07	Spike	P	0 - 30
2255992	Tau-Fluvalinate	15.7	Spike	P	0 - 30
2255992	Tetramethrin	15.2	Spike	P	0 - 30
2255992	Trans-Nonachlor	10.7	Spike	P	0 - 30
2255992	Triclosan Methyl	3.94	Spike	P	0 - 30
2255992	Trifluralin	18.3	Spike	P	0 - 30
LFB	Aldrin	33.7	LCS	F	0 - 30
LFB	Alpha-BHC	5.99	LCS	P	0 - 30
LFB	Alpha-Chlordane	24.1	LCS	P	0 - 30
LFB	Beta-BHC	4.16	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	25.1	LCS	P	0 - 30
LFB	Bifenthrin	34.3	LCS	F	0 - 30
LFB	Chlorothalonil	1.70	LCS	P	0 - 50
LFB	Cis-Nonachlor	23.1	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P400005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Cypermethrin	27.1	LCS	P	0 - 30
LFB	Dacthal	9.37	LCS	P	0 - 30
LFB	DDD-p,p'	25.8	LCS	P	0 - 30
LFB	DDE-p,p'	24.5	LCS	P	0 - 30
LFB	DDT-p,p'	25.1	LCS	P	0 - 30
LFB	Delta-BHC	1.87	LCS	P	0 - 30
LFB	Deltamethrin	26.2	LCS	P	0 - 30
LFB	Dichlobenil	10.2	LCS	P	0 - 30
LFB	Dicofol	24.0	LCS	P	0 - 30
LFB	Dieldrin	27.9	LCS	P	0 - 30
LFB	Endosulfan I	29.6	LCS	P	0 - 30
LFB	Endosulfan II	12.4	LCS	P	0 - 30
LFB	Endosulfan Sulfate	10.7	LCS	P	0 - 30
LFB	Endrin	20.8	LCS	P	0 - 30
LFB	Endrin Aldehyde	16.9	LCS	P	0 - 30
LFB	Endrin Ketone	5.50	LCS	P	0 - 30
LFB	Esfenvalerate	23.0	LCS	P	0 - 30
LFB	Ethalfluralin	24.5	LCS	P	0 - 30
LFB	Fenpropathrin	31.4	LCS	F	0 - 30
LFB	Gamma-BHC	8.35	LCS	P	0 - 30
LFB	Gamma-Chlordane	20.0	LCS	P	0 - 30
LFB	Heptachlor	29.2	LCS	P	0 - 30
LFB	Heptachlor Epoxide	18.6	LCS	P	0 - 30
LFB	Hexachlorobenzene	25.3	LCS	P	0 - 30
LFB	Kepone	4.62	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	21.5	LCS	P	0 - 30
LFB	Methoxychlor	12.4	LCS	P	0 - 30
LFB	MGK-264	9.36	LCS	P	0 - 30
LFB	Mirex	30.8	LCS	F	0 - 30
LFB	Permethrin	29.4	LCS	P	0 - 30
LFB	Phenothrin	38.9	LCS	F	0 - 30
LFB	Piperonyl Butoxide	22.1	LCS	P	0 - 30
LFB	Prallethrin	6.74	LCS	P	0 - 30
LFB	Tau-Fluvalinate	34.1	LCS	F	0 - 30
LFB	Tetramethrin	25.4	LCS	P	0 - 30
LFB	Trans-Nonachlor	25.5	LCS	P	0 - 30
LFB	Triclosan Methyl	21.1	LCS	P	0 - 30
LFB	Trifluralin	26.2	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P400005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2256046	Chlordane	2.27	Spike	P	0 - 30
2256046	Toxaphene	5.06	Spike	P	0 - 30
LFB	Chlordane	9.32	LCS	P	0 - 30
LFB	Toxaphene	2.77	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P399841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255371	3-Hydroxycarbofuran	0.349	Spike	P	0 - 30
2255371	Aldicarb	9.34	Spike	P	0 - 30
2255371	Aldicarb Sulfone	6.21	Spike	P	0 - 30
2255371	Aldicarb Sulfoxide	8.78	Spike	P	0 - 30
2255371	Carbaryl	4.65	Spike	P	0 - 30
2255371	Carbofuran	4.94	Spike	P	0 - 30
2255371	Methiocarb	17.2	Spike	P	0 - 30
2255371	Methomyl	6.04	Spike	P	0 - 30
2255371	Oxamyl	1.26	Spike	P	0 - 30
2255371	Propoxur	7.90	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P399865

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255020	Acesulfame K	2.82	Spike	P	0 - 30
2255020	AMPA	2.28	Spike	P	0 - 30
2255020	Endothall	16.3	Spike	P	0 - 30
2255020	Glufosinate	1.33	Spike	P	0 - 30
2255020	Glyphosate	4.62	Spike	P	0 - 30
2255020	Sucralose	2.76	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P399973

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255827	2,4-D	7.19	Spike	P	0 - 30
2255827	2,4,5-T	17.4	Spike	P	0 - 30
2255827	Acetaminophen	8.47	Spike	P	0 - 30
2255827	Acetamiprid	28.4	Spike	P	0 - 30
2255827	Afidopyropen	164	Spike	F	0 - 30
2255827	Bentazon	8.00	Spike	P	0 - 30
2255827	Benzovindiflupyr	13.5	Spike	P	0 - 30
2255827	Carbamazepine	7.89	Spike	P	0 - 30
2255827	Clothianidin	3.92	Spike	P	0 - 30
2255827	Dinotefuran	19.4	Spike	P	0 - 30
2255827	Diuron	8.07	Spike	P	0 - 30
2255827	Fenuron	3.65	Spike	P	0 - 30
2255827	Fluridone	11.8	Spike	P	0 - 30
2255827	Hydrocodone	24.1	Spike	P	0 - 30
2255827	Ibuprofen	10.3	Spike	P	0 - 30
2255827	Imazapyr	11.2	Spike	P	0 - 30
2255827	Imidacloprid	8.80	Spike	P	0 - 30
2255827	Linuron	15.8	Spike	P	0 - 30
2255827	Mandestrobin	19.3	Spike	P	0 - 30
2255827	MCPP	10.4	Spike	P	0 - 30
2255827	Naproxen	18.8	Spike	P	0 - 30
2255827	Primidone	4.52	Spike	P	0 - 30
2255827	Pyraclostrobin	7.11	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P399973

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255827	Thiamethoxam	8.77	Spike	P	0 - 30
2255827	Tolfenpyrad	11.9	Spike	P	0 - 30
2255827	Triclopyr	11.8	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P399956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255866	Color (true)	0.361	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P400371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255491	Total Alkalinity	0.858	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P400343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255527	TDS	2.99	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P400344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2256032	TDS	0.612	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P400374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255491	Fluoride	0.919	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P400360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255650	Organic Carbon	0.186	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P400361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2011
Batch ID: P400361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255871	Organic Carbon	0.441	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2255895
Field Sample ID: G3SE0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	83.8	P	30 - 160
EPA 8321B	Diuron-d6	61.5	P	30 - 160
EPA 8321B	Endothall-d6	70.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.3	P	30 - 160
EPA 8321B	Primidone-d5	91.3	P	30 - 160
EPA 8321B	Sucralose-d6	95.9	P	30 - 160

Lab Sample ID: 2255896
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	52.3	P	30 - 160

Lab Sample ID: 2255897
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	113	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	96.3	P	30 - 160
EPA 8321B	Diuron-d6	72.7	P	30 - 160
EPA 8321B	Endothall-d6	64.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	37.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.4	P	30 - 160
EPA 8321B	Primidone-d5	94.7	P	30 - 160
EPA 8321B	Sucralose-d6	94.4	P	30 - 160

Lab Sample ID: 2255898
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	97.1	P	35 - 120
EPA 8270E	Tetrachloro-m-xylene	60.1	P	30 - 110
EPA 8276	Decachlorobiphenyl	71.8	P	29 - 92.0
EPA 8276	PCNB	85.7	P	43 - 134

Lab Sample ID: 2255899
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	77.2	P	20 - 200
EPA 8270E	Simazine-d10	122	P	73 - 135
EPA 8270E	Terbufos-d10	93.7	P	58 - 130

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A106176
Included Lab Sample IDs: 2255868, 2255873, 2255874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.6	98.0	P/P	90 - 110
O-Phosphate-P	98.4	98.1	P/P	90 - 110

Reference Method: SM 2120 B-2011
Run ID: A106177
Included Lab Sample IDs: 2255866, 2255869, 2255870

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A106178
Included Lab Sample IDs: 2255866, 2255869, 2255870

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

Reference Method: EPA 8321B
Run ID: A106190
Included Lab Sample IDs: 2255895, 2255897

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	82.6	85.6	P/P	60 - 160
Glufosinate	89.7	88.5	P/P	60 - 160
Glyphosate	93.6	89.6	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A106192
Included Lab Sample IDs: 2255895, 2255897

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	76.7	76.3	P/P	60 - 160
Acesulfame K	77.2	76.7	P/P	60 - 160
Endothall	75.7	82.8	P/P	60 - 160
Endothall	82.8	66.2	P/P	60 - 160
Sucralose	107	105	P/P	60 - 160
Sucralose	110	107	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A106199
Included Lab Sample IDs: 2255896

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	108	103	P/P	60 - 150
Aldicarb	103	105	P/P	60 - 150
Aldicarb Sulfone	99.2	99.0	P/P	50 - 150
Aldicarb Sulfoxide	98.6	102	P/P	50 - 150
Carbaryl	116	113	P/P	60 - 150
Carbofuran	93.3	91.7	P/P	50 - 150
Methiocarb	125		P	50 - 150

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Calibration Verification

Reference Method: EPA 8321B
Run ID: A106199
Included Lab Sample IDs: 2255896

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methomyl	101	104	P/P	50 - 150
Oxamyl	94.0	97.8	P/P	50 - 150
Propoxur	104	96.1	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A106207
Included Lab Sample IDs: 2255867, 2255871, 2255872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A106285
Included Lab Sample IDs: 2255898

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.3		P	80 - 120
Alpha-BHC	99.2		P	80 - 120
Alpha-Chlordane	98.3		P	80 - 120
Beta-BHC	83.9		P	80 - 120
Beta-Cyfluthrin	103		P	80 - 120
Bifenthrin	97.0		P	80 - 120
Chlorothalonil	103		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	103		P	80 - 120
Dacthal	99.1		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	97.3		P	80 - 120
DDT-p,p'	98.2		P	80 - 120
Delta-BHC	92.7		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	89.3		P	80 - 120
Dicofol	95.2		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	96.4		P	80 - 120
Endosulfan II	100		P	80 - 120
Endosulfan Sulfate	97.8		P	80 - 120
Endrin	104		P	80 - 120
Endrin Aldehyde	96.0		P	80 - 120
Endrin Ketone	97.6		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfluralin	98.4		P	80 - 120
Fenpropathrin	99.7		P	80 - 120
Gamma-BHC	95.9		P	80 - 120
Gamma-Chlordane	98.7		P	80 - 120
Heptachlor	99.6		P	80 - 120
Heptachlor Epoxide	98.7		P	80 - 120
Hexachlorobenzene	99.2		P	80 - 120
Kepone	70.6*		F	80 - 120
Lambda-Cyhalothrin	105		P	80 - 120
Methoxychlor	94.8		P	80 - 120

Quality Assurance Report
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Reference Method: EPA 8270E
Run ID: A106285
Included Lab Sample IDs: 2255898

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MGK-264	101		P	80 - 120
Mirex	96.9		P	80 - 120
Permethrin	103		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120
Prallethrin	101		P	80 - 120
Tau-Fluvalinate	99.8		P	80 - 120
Tetramethrin	95.4		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	97.3		P	80 - 120
Trifluralin	96.3		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A106289
Included Lab Sample IDs: 2255867, 2255872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	95.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A106315
Included Lab Sample IDs: 2255867, 2255871

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

Reference Method: EPA 8321B
Run ID: A106322
Included Lab Sample IDs: 2255895, 2255897

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.9	94.3	P/P	50 - 150
2,4,5-T	114	121	P/P	50 - 150
Acetaminophen	93.5	102	P/P	60 - 160
Acetamiprid	104	98.7	P/P	50 - 150
Afidopyropen	121	113	P/P	50 - 150
Bentazon	86.7	87.8	P/P	50 - 160
Benzovindiflupyr	104	100	P/P	50 - 160
Carbamazepine	99.8	101	P/P	60 - 150
Clothianidin	104	100	P/P	60 - 150
Dinotefuran	93.9	118	P/P	50 - 150
Diuron	103	111	P/P	60 - 160
Fenuron	96.6	98.4	P/P	60 - 150
Fluridone	104	103	P/P	60 - 160
Hydrocodone	101	103	P/P	60 - 150
Ibuprofen	124	97.8	P/P	50 - 160
Imazapyr	119	119	P/P	50 - 160
Imidacloprid	94.8	93.8	P/P	60 - 150
Linuron	85.7	93.1	P/P	60 - 150
Mandestrobin	118	117	P/P	50 - 150
MCPP	107	109	P/P	50 - 150

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Reference Method: EPA 8321B
Run ID: A106322
Included Lab Sample IDs: 2255895, 2255897

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naproxen	105	110	P/P	50 - 160
Primidone	102	94.8	P/P	60 - 150
Pyraclostrobin	99.8	97.8	P/P	60 - 150
Thiamethoxam	99.4	102	P/P	50 - 150
Tolfenpyrad	95.1	94.5	P/P	60 - 150
Triclopyr	97.4	113	P/P	50 - 150

Reference Method: EPA 8276
Run ID: A106344
Included Lab Sample IDs: 2255898

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.1		P	80 - 120
Toxaphene	107		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A106346
Included Lab Sample IDs: 2255867, 2255871, 2255872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A106347
Included Lab Sample IDs: 2255872

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

Reference Method: SM 5310 B-2011
Run ID: A106360
Included Lab Sample IDs: 2255867, 2255871, 2255872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.1	96.5	P/P	90 - 110
Organic Carbon	96.5	97.1	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A106363
Included Lab Sample IDs: 2255866, 2255869, 2255870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	103	P/P	90 - 110
Total Alkalinity	103	99.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A106363
Included Lab Sample IDs: 2255866, 2255869, 2255870

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

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Reference Method: SM 4500 F-C-2011
Run ID: A106363
Included Lab Sample IDs: 2255866, 2255869, 2255870

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A106393
Included Lab Sample IDs: 2255871

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A106423
Included Lab Sample IDs: 2255866, 2255869, 2255870

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	100	P/P	90 - 110
Sulfate	100	99.6	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A106448
Included Lab Sample IDs: 2255899

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	99.2		P	80 - 120
Atrazine Desethyl	106		P	80 - 120
Azinphos Methyl	94.7		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	106		P	80 - 120
Caffeine	86.0		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	100		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	99.2		P	80 - 120
Cyanazine	107		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	96.8		P	80 - 120
Difenoconazole	88.5		P	80 - 120
Dimethenamid	102		P	80 - 120
Disulfoton	97.1		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	103		P	80 - 120
Ethion	98.8		P	80 - 120
Ethoprop	102		P	80 - 120
Fenamiphos	96.6		P	80 - 120
Fenbuconazole	101		P	80 - 120
Fipronil	100		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	98.3		P	80 - 120

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Calibration Verification

Reference Method: EPA 8270E
Run ID: A106448
Included Lab Sample IDs: 2255899

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluazifop-P-butyl	105		P	80 - 120
Fludioxonil	101		P	80 - 120
Flumioxazin	93.2		P	80 - 120
Flutolanil	104		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	106		P	80 - 120
Iprodione	115		P	80 - 120
Malathion	91.7		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	99.7		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	101		P	80 - 120
Naled	103		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	106		P	80 - 120
Oxyfluorfen	97.7		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	109		P	80 - 120
Phorate	101		P	80 - 120
Prodiamine	93.9		P	80 - 120
Prometon	99.6		P	80 - 120
Prometryn	108		P	80 - 120
Pronamide	96.3		P	80 - 120
Propiconazole	102		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	106		P	80 - 120
Sulfentrazone	94.2		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	103		P	80 - 120
Terbuthylazine	103		P	80 - 120

Reference Method: EPA 8270E
Run ID: A106451
Included Lab Sample IDs: 2255899

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	104		P	80 - 120
Metalaxyl	98.8		P	80 - 120
Metolachlor	102		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						0.438	
EPA 300.0 Rev. 2.1	Chloride	102		96.3	98.6		0.439	
	Sulfate	96.9		97.6	95.8		0.675	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8		97.4	96.2			0.990
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101		104	102			1.12
	Kjeldahl Nitrogen	108						1.03
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0		99.0	98.5			0.506
EPA 365.1 Rev. 2.0	Total-P	104		106	107			0.785
	Total-P	104		103	102			1.05
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100		97.8	97.3			0.513
EPA 8270E	Acetochlor	112	100	106	113	11.4		6.40
	Alachlor	108	95.5	90.7	103	12.6		13.0
	Aldrin	60.4	43.0	48.2	40.9	33.7		16.4
	Alpha-BHC	94.7	89.1	101	94.0	5.99		7.15
	Alpha-Chlordane	86.0	67.6	99.0	88.4	24.1		11.4
	Ametryn	94.7	97.1	92.9	86.5	2.42		7.11
	Atrazine	99.8	100			0.128		5.98
	Atrazine Desethyl	72.3	69.9	80.5	85.1	3.36		5.55
	Azinphos Methyl	111	127	129	122	13.7		5.80
	Azoxystrobin	97.1	102	107	123	5.38		14.3
	Beta-BHC	87.9	91.6	122	126	4.16		3.50
	Beta-Cyfluthrin	115	89.6	143	123	25.1		14.9
	Bifenthrin	85.0	60.1	58.4	48.2	34.3		19.2
	Bromacil	91.6	86.9	82.3	94.6	5.23		13.8
	Butylate	59.9	60.0	71.4	95.5	0.124		28.9
	Caffeine	81.7	78.3	103	104	4.29		0.609
	Carbophenothion	103	101	94.6	98.7	1.88		4.23
	Carfentrazone Ethyl	120	110	101	104	8.87		2.37
	Chlorothalonil	127	124	150	159	1.70		5.87
	Chlorpyrifos Ethyl	90.4	86.6	85.7	92.4	4.35		7.52
	Chlorpyrifos Methyl	87.8	89.0	87.6	90.9	1.33		3.66
	Cis-Nonachlor	95.5	75.7	86.7	73.5	23.1		16.5
	Cyanazine	118	109	97.9	110	7.70		11.6
	Cypermethrin	139	106	115	96.3	27.1		17.5
	Dacthal	102	92.8	105	104	9.37		1.06
	DDD-p,p'	101	77.9	91.7	80.0	25.8		13.6
	DDE-p,p'	88.0	68.8	78.3	64.4	24.5		19.4
	DDT-p,p'	91.0	70.7	54.7	47.8	25.1		13.5
	Delta-BHC	107	109	142	137	1.87		3.94
	Deltamethrin	96.0	73.8	65.2	80.9	26.2		21.5
	Demeton	30.3	29.9	46.6	48.6	1.47		4.32
	Diazinon	100	97.8	99.1	109	2.54		9.75
	Dichlobenil	62.4	69.1	42.8	45.4	10.2		5.82
	Dicofol	90.3	70.9	55.3	50.5	24.0		9.25
	Dieldrin	89.1	67.3	87.7	76.4	27.9		13.8
	Difenoconazole	126	151	148	137	17.6		7.65
	Dimethenamid	84.9	77.7	78.1	79.8	8.82		2.14
	Disulfoton	74.9	74.0	91.9	69.4	1.21		27.9
	Dithiopyr	96.5	85.1	84.4	96.9	12.5		13.7
	Endosulfan I	110	81.4	106	101	29.6		4.15
	Endosulfan II	130	115	121	117	12.4		3.55
	Endosulfan Sulfate	93.1	83.6	90.3	92.2	10.7		2.09
	Endrin	120	97.8	109	98.2	20.8		10.2
	Endrin Aldehyde	85.6	72.3	81.6	78.0	16.9		4.54

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Endrin Ketone	103	97.1	109	111	5.50		1.57
	EPTC	39.2	40.9	44.3	52.8	4.26		17.5
	Esfenvalerate	167	132	134	111	23.0		18.8
	Ethalfluralin	82.0	64.1	70.4	60.9	24.5		14.5
	Ethion	90.6	80.9	63.7	44.2	11.3		36.0
	Ethoprop	77.0	83.1	87.1	97.5	7.51		11.3
	Fenamiphos	97.6	95.4	85.6	80.8	2.32		5.74
	Fenbuconazole	114	106	101	107	7.51		6.02
	Fenpropathrin	103	75.2	85.1	64.0	31.4		28.2
	Fipronil	110	97.9	95.2	96.4	11.3		1.21
	Fipronil Desulfinyl	117	101	95.1	100	15.5		5.09
	Fipronil Sulfide	92.1	85.1	76.0	73.8	7.97		2.98
	Fipronil Sulfone	89.4	81.1	72.8	85.0	9.84		14.0
	Fluazifop-P-butyl	103	97.4	90.7	97.8	5.89		7.60
	Fludioxonil	108	95.8	90.9	92.8	12.2		2.07
	Flumioxazin	137	164	173	172	18.4		0.614
	Flutolanil	102	90.3	80.6	85.9	12.6		6.30
	Fluxapyroxad	99.3	86.1	86.2	80.0	14.3		7.13
	Fonofos	77.7	81.6	81.4	92.2	4.88		12.5
	Gamma-BHC	96.2	88.5	107	99.4	8.35		6.96
	Gamma-Chlordane	104	84.9	93.2	77.3	20.0		18.7
	Heptachlor	80.9	60.3	59.5	53.0	29.2		11.6
	Heptachlor Epoxide	102	84.7	95.7	90.4	18.6		5.72
	Hexachlorobenzene	77.7	60.3	56.5	49.7	25.3		12.8
	Hexazinone	94.4	89.1			5.77		11.3
	Imazalil	102	95.2	114	95.1	6.82		18.0
	Iprodione	111	101	95.3	96.5	10.1		1.27
	Kepone	130	124	148	154	4.62		4.22
	Lambda-Cyhalothrin	162	131	134	109	21.5		20.3
	Malathion	105	105	96.5	103	0.621		6.59
	Metalaxyl	105	93.6	87.8	96.1	11.3		9.00
	Methoxychlor	98.6	87.1	92.3	89.9	12.4		2.63
	Metolachlor	106	96.2	92.6	102	9.20		8.99
	Metribuzin	98.6	98.9	96.8	119	0.245		20.6
	Mevinphos	63.0	69.8	76.6	87.6	10.2		13.3
	MGK-264	91.0	82.9	103	99.5	9.36		3.90
	Mirex	111	81.1	66.3	83.9	30.8		23.5
	Molinate	49.2	56.4	61.2	72.5	13.6		16.9
	Myclobutanil	98.4	92.4	86.6	88.3	6.26		1.95
	Naled	38.8	43.8	50.8	58.4	12.1		13.8
	Norflurazon	97.9	87.3	86.0	88.9	11.4		3.32
	Oxadiazon	97.9	87.5	85.0	86.2	11.2		1.44
	Oxyfluorfen	112	112	113	106	0.167		6.65
	Parathion Ethyl	88.5	89.8	87.5	96.7	1.44		9.93
	Parathion Methyl	99.8	104	101	115	3.66		12.8
	Pendimethalin	86.8	89.0	93.3	102	2.39		9.34
	Permethrin	127	94.2	105	84.6	29.4		21.4
	Phenothrin	69.8	47.1	76.7	74.8	38.9		2.51
	Phorate	103	105	145	161	1.38		10.4
	Piperonyl Butoxide	81.4	65.2	80.2	77.8	22.1		3.13
	Prallethrin	89.5	83.6	84.9	92.0	6.74		8.07
	Prodiamine	44.1	48.4	58.1	63.2	9.34		8.44
	Prometon	91.9	86.5	84.3	96.3	6.14		13.2
	Prometryn	98.7	92.3	85.0	89.4	6.69		5.11

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Pronamide	97.1	95.9	100	108	1.28		7.47
	Propiconazole	104	88.2	86.1	92.5	16.8		7.17
	Pyriproxyfen	97.3	93.5	88.0	116	3.97		27.1
	Simazine	86.7	86.5	92.4	109	0.195		11.8
	Sulfentrazone	85.9	77.1	79.8	83.9	10.9		5.04
	Tau-Fluvalinate	122	86.6	76.9	89.9	34.1		15.7
	Tebuconazole	94.3	63.7	66.0	53.5	38.7		21.0
	Terbufos	91.3	93.5	98.5	110	2.35		11.1
	Terbuthylazine	102	89.6	70.6	79.5	13.0		9.44
	Tetramethrin	75.0	58.1	64.9	75.6	25.4		15.2
	Trans-Nonachlor	83.4	64.6	82.1	91.5	25.5		10.7
	Triclosan Methyl	94.3	76.3	102	106	21.1		3.94
	Trifluralin	82.9	63.7	60.6	72.8	26.2		18.3
EPA 8276	Chlordane	92.2	101	93.6	91.5	9.32		2.27
	Toxaphene	96.1	93.4	90.5	86.0	2.77		5.06
EPA 8321B	2,4-D	104						7.19
	2,4,5-T	98.0		104	87.5			17.4
	3-Hydroxycarbofuran	79.4		80.2	80.4			0.349
	Acesulfame K	80.5		84.0	86.4			2.82
	Acetaminophen	78.3		97.1	89.2			8.47
	Acetamiprid	75.5		77.8	58.4			28.4
	Afidopyropen	71.5		67.5	6.62			164
	Aldicarb	70.9		78.9	71.8			9.34
	Aldicarb Sulfone	56.2		89.5	84.1			6.21
	Aldicarb Sulfoxide	97.3		55.2	50.5			8.78
	AMPA	99.4		95.1	97.3			2.28
	Bentazon	76.8		64.4	59.5			8.00
	Benzovindiflupyr	84.2		89.4	78.1			13.5
	Carbamazepine	88.8		97.2	89.8			7.89
	Carbaryl	73.7		51.1	48.8			4.65
	Carbofuran	69.6		52.2	49.7			4.94
	Clothianidin	81.4		95.7	99.6			3.92
	Dinotefuran	88.5		114	93.7			19.4
	Diuron	79.9		77.8	71.8			8.07
	Endothall	71.4		70.2	82.7			16.3
	Fenuron	89.1		88.0	84.8			3.65
	Fluridone	90.7		91.5	81.3			11.8
	Glufosinate	101		103	105			1.33
	Glyphosate	103		106	111			4.62
	Hydrocodone	78.0		111	86.8			24.1
	Ibuprofen	77.0		91.3	82.4			10.3
	Imazapyr	110		158	140			11.2
	Imidacloprid	81.6		127	116			8.80
	Linuron	72.2		72.1	61.6			15.8
	Mandestrobin	101		107	88.5			19.3
	MCPP	101		104	93.8			10.4
	Methiocarb	68.2		71.0	59.7			17.2
	Methomyl	90.4		78.4	73.8			6.04
	Naproxen	101		80.3	97.0			18.8
	Oxamyl	85.7		75.7	74.8			1.26
	Primidone	90.5		103	98.0			4.52
	Propoxur	75.2		56.3	52.0			7.90
	Pyraclostrobin	78.0		80.6	75.0			7.11
	Sucralose	102		99.7	103			2.76

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Thiamethoxam	90.2	128	117			8.77
	Tolfenpyrad	52.3	54.2	48.1			11.9
	Triclopyr	93.3	105	93.6			11.8
SM 2120 B-2011	Color (true)	99.7				0.361	
SM 2320 B-2011	Total Alkalinity	103				0.858	
SM 2540 C-2011	TDS					2.99	
	TDS					0.612	
SM 4500 F-C-2011	Fluoride	98.0	98.2	97.2			0.919
SM 5310 B-2011	Organic Carbon	95.1	100	100			0.186
	Organic Carbon	96.0	96.4	97.0			0.441

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2255866, 2255869, 2255870
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2255866, 2255869, 2255870
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2255866, 2255869, 2255870
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2255867, 2255871, 2255872
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2255867, 2255871, 2255872
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2255867, 2255871, 2255872
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2255867, 2255871, 2255872
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2255868, 2255873, 2255874
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2255898
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2255899
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2255898
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2255896
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2255895, 2255897
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2255866, 2255869, 2255870
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2255866, 2255869, 2255870
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2255866, 2255869, 2255870
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2255866, 2255869, 2255870
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2255866, 2255869, 2255870
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2255867, 2255871, 2255872

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	06/18/2021			06/18/2021 15:08	Sarah A Nixon	2255866, 2255869, 2255870
EPA 300.0 Rev. 2.1	06/18/2021			07/01/2021 20:08	Lipi Saha	2255866
	06/18/2021			07/01/2021 20:20	Lipi Saha	2255869
	06/18/2021			07/01/2021 20:32	Lipi Saha	2255870
EPA 350.1 Rev. 2.0	06/18/2021			06/29/2021 12:44	Roberta Tatti	2255867
	06/18/2021			06/29/2021 12:46	Roberta Tatti	2255871
	06/18/2021			06/29/2021 12:47	Roberta Tatti	2255872
EPA 351.2 Rev. 2.0	06/18/2021	06/22/2021 12:54	Benjamin T. Nordmann	06/24/2021 11:39	Letuzia M De Oliveira	2255867
	06/18/2021	06/22/2021 12:54	Benjamin T. Nordmann	06/24/2021 11:41	Letuzia M De Oliveira	2255872
	06/18/2021	06/29/2021 12:54	Benjamin T. Nordmann	06/30/2021 12:53	Letuzia M De Oliveira	2255871
EPA 353.2 Rev. 2.0	06/18/2021			06/22/2021 09:30	Beverly Y. Sanders	2255867
	06/18/2021			06/22/2021 09:31	Beverly Y. Sanders	2255871
	06/18/2021			06/22/2021 09:33	Beverly Y. Sanders	2255872
EPA 365.1 Rev. 2.0	06/18/2021	06/25/2021 12:24	Madeline Gruver	06/28/2021 10:04	Shengyu Ding	2255867
	06/18/2021	06/25/2021 12:24	Madeline Gruver	06/28/2021 10:05	Shengyu Ding	2255871
	06/18/2021	06/28/2021 17:29	Madeline Gruver	06/29/2021 12:21	Shengyu Ding	2255872
EPA 365.1 Rev. 2.0 dissolved	06/18/2021			06/18/2021 15:33	Ping Hua	2255868
	06/18/2021			06/18/2021 15:34	Ping Hua	2255873
	06/18/2021			06/18/2021 16:01	Ping Hua	2255874
EPA 8270E	06/18/2021	06/21/2021 08:00	Fe-Val Siddell	06/22/2021 18:14	Vandana T. Nagar	2255899
	06/18/2021	06/21/2021 08:00	Fe-Val Siddell	06/29/2021 19:40	Vandana T. Nagar	2255899
	06/18/2021	06/22/2021 08:00	Fe-Val Siddell	06/24/2021 22:27	Arthur Maknenko	2255898
EPA 8276	06/18/2021	06/22/2021 08:00	Fe-Val Siddell	06/29/2021 02:39	Chiran X. Ghimire	2255898
EPA 8321B	06/18/2021	06/18/2021 11:00	Juyoung Kim	06/18/2021 17:23	Juyoung Kim	2255895
	06/18/2021	06/18/2021 11:00	Juyoung Kim	06/18/2021 17:50	Juyoung Kim	2255897
	06/18/2021	06/18/2021 11:00	Juyoung Kim	06/19/2021 00:39	Juyoung Kim	2255895
	06/18/2021	06/18/2021 11:00	Juyoung Kim	06/19/2021 00:50	Juyoung Kim	2255897
	06/18/2021	06/21/2021 09:00	Hoor Shaik	06/21/2021 21:52	Juyoung Kim	2255896
	06/18/2021	06/23/2021 09:00	Hoor Shaik	06/25/2021 18:33	Juyoung Kim	2255895
	06/18/2021	06/23/2021 09:00	Hoor Shaik	06/25/2021 19:08	Juyoung Kim	2255897
SM 2120 B-2011	06/18/2021			06/18/2021 15:39	Sarah A Nixon	2255866
	06/18/2021			06/18/2021 15:42	Sarah A Nixon	2255869
	06/18/2021			06/18/2021 15:53	Sarah A Nixon	2255870
SM 2320 B-2011	06/18/2021			06/29/2021 18:15	Dale L. Simmons	2255869
	06/18/2021			06/29/2021 18:30	Dale L. Simmons	2255870
	06/18/2021			06/29/2021 19:52	Dale L. Simmons	2255866
SM 2540 C-2011	06/18/2021			06/22/2021 14:06	Yijie Li	2255866, 2255869, 2255870
SM 2540 D-2011	06/18/2021			06/22/2021 14:15	Yijie Li	2255866, 2255869, 2255870
SM 4500 F-C-2011	06/18/2021			06/29/2021 18:15	Dale L. Simmons	2255869
	06/18/2021			06/29/2021 18:30	Dale L. Simmons	2255870

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-2011	06/18/2021			06/29/2021 19:52	Dale L. Simmons	2255866
SM 5310 B-2011	06/18/2021			06/29/2021 03:36	Madeline Gruver	2255867
	06/18/2021			06/29/2021 04:15	Madeline Gruver	2255871
	06/18/2021			06/29/2021 05:35	Madeline Gruver	2255872