

Chemical Analysis Report

TLH-ROC-2021-11-22-01

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

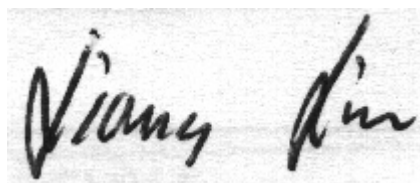
Event Description: **Run 11**
Request ID: **RQ-2021-09-06-57**
Customer: **TLH-ROC**
Project ID: **SMP**

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

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 15-DEC-2021 14:55

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

Case Narrative

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

Results for the following analytical groups are included in this report: 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: Flat Creek @ CR269

Collection Date/Time: 11/22/2021 09:25

Field ID: G2TLHR0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2290924	EPA 180.1 Rev. 2.0	Turbidity	7.7		NTU	P406720	
	EPA 300.0 Rev. 2.1	Chloride	4.4		mg Cl/L	P407154	
		Sulfate	0.79		mg SO4/L	P407157	
	SM 2120 B-2011	Color (true)	28	A	PCU	P406716	
	SM 2320 B-2011	Total Alkalinity	13		mg CaCO3/L	P406784	
	SM 2540 C-2011	TDS	35		mg/L	P407014	
	SM 2540 D-2011	TSS	9	I	mg/L	P407051	
	SM 4500 F-C-2011	Fluoride	0.084	I	mg F/L	P406787	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P407084	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P407144	
2290925	EPA 353.2 Rev. 2.0	NO2NO3-N	0.32		mg N/L	P406741	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P406641	
	SM 5310 B-2011	Organic Carbon	2.6	A	mg C/L	P406794	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.082		mg P/L	P406711	
	dissolved						
2290929	EPA 8321B	Aldicarb	0.020	U	ug/L	P406695	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P406695	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P406695	
		Carbaryl	0.0020	U	ug/L	P406695	
		Carbofuran	0.0020	U	ug/L	P406695	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P406695	
		Methiocarb	0.0020	U	ug/L	P406695	
		Methomyl	0.0020	U	ug/L	P406695	
		Oxamyl	0.0020	U	ug/L	P406695	
		Propoxur	0.0020	U	ug/L	P406695	
2290930		2,4-D	0.0020	U	ug/L	P406695	
		Acesulfame K	0.10	U	ug/L	P406666	
		2,4,5-T	0.0040	U	ug/L	P406695	
		AMPA	0.10	U	ug/L	P406666	
		Acetaminophen	0.014	I	ug/L	P406695	
		Acetamiprid	0.0020	U	ug/L	P406695	
		Endothall	0.25	U	ug/L	P406666	
		Glufosinate	0.10	U	ug/L	P406666	
		Glyphosate	0.10	U	ug/L	P406666	
		Afidopyropen	0.0020	UJ	ug/L	P406695	LCS
		Bentazon	8.0E-04	U	ug/L	P406695	
		Sucralose	0.045		ug/L	P406666	
		Benzovindiflupyr	0.0020	U	ug/L	P406695	
		Carbamazepine	8.0E-04	U	ug/L	P406695	
		Clothianidin	0.0020	U	ug/L	P406695	
		Dinotefuran	0.0020	U	ug/L	P406695	
		Diuron	0.0020	U	ug/L	P406695	
		Fenuron	0.029	I	ug/L	P406695	
		Fluridone	8.0E-04	U	ug/L	P406695	

Field ID: G2TLHR0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2290930	EPA 8321B	Imazapyr	0.0064	I	ug/L	P406695	
		Hydrocodone	0.0020	U	ug/L	P406695	
		Ibuprofen	0.020	U	ug/L	P406695	
		Imidacloprid	0.0020	U	ug/L	P406695	MS
		Linuron	0.0040	U	ug/L	P406695	
		Mandestrobin	0.0020	U	ug/L	P406695	
		MCP	0.0040	U	ug/L	P406695	
		Naproxen	0.0080	U	ug/L	P406695	
		Primidone	0.0040	U	ug/L	P406695	
		Pyraclostrobin	0.0020	U	ug/L	P406695	
		Thiamethoxam	0.0020	U	ug/L	P406695	MS
		Tolfenpyrad	0.0020	U	ug/L	P406695	
		Triclopyr	0.0040	U	ug/L	P406695	
2290931	EPA 8270E	Aldrin	0.69	U	ng/L	P406573	
		Alpha-BHC	0.11	U	ng/L	P406573	
		Alpha-Chlordane	0.21	U	ng/L	P406573	
		Beta-BHC	0.11	U	ng/L	P406573	
		Beta-Cyfluthrin**	1.3	U	ng/L	P406573	
		Bifenthrin**	0.53	U	ng/L	P406573	
		Chlorothalonil	0.53	I	ng/L	P406573	
		Cis-Nonachlor**	0.21	U	ng/L	P406573	
		Cypermethrin	1.6	U	ng/L	P406573	
		Dacthal**	0.16	U	ng/L	P406573	
		DDD-p,p'	0.26	U	ng/L	P406573	
		DDE-p,p'	0.21	U	ng/L	P406573	
		DDT-p,p'	0.26	U	ng/L	P406573	
		Delta-BHC	0.42	U	ng/L	P406573	
		Deltamethrin**	1.3	U	ng/L	P406573	
		Dichlobenil**	0.11	U	ng/L	P406573	
		Dicofol	1.3	U	ng/L	P406573	
		Dieldrin	0.42	U	ng/L	P406573	
		Endosulfan I	0.42	U	ng/L	P406573	
		Endosulfan II	0.42	U	ng/L	P406573	
		Endosulfan Sulfate	0.32	U	ng/L	P406573	
		Endrin	0.42	U	ng/L	P406573	
		Endrin Aldehyde	0.79	U	ng/L	P406573	
		Endrin Ketone	0.42	U	ng/L	P406573	
		Esfenvalerate**	0.79	UJ	ng/L	P406573	RPD
		Ethalfuralin**	0.16	U	ng/L	P406573	
		Fenpropathrin**	0.26	U	ng/L	P406573	
		Gamma-BHC	0.13	U	ng/L	P406573	
		Gamma-Chlordane	0.21	U	ng/L	P406573	
		Heptachlor	0.21	U	ng/L	P406573	
		Heptachlor Epoxide	0.26	U	ng/L	P406573	
		Hexachlorobenzene	1.1	U	ng/L	P406573	

Field ID: G2TLHR0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2290931	EPA 8270E	Kepone**	5.3	U	ng/L	P406573	
		Lambda-Cyhalothrin**	0.79	U	ng/L	P406573	
		Methoprene**	0.79	U	ng/L	P406573	
		Methoxychlor	0.32	U	ng/L	P406573	
		MGK-264**	0.21	U	ng/L	P406573	
		Mirex	0.74	U	ng/L	P406573	
		Oxychlordane**	0.32	U	ng/L	P406573	
		Permethrin	1.7	U	ng/L	P406573	
		Phenothrin**	0.95	U	ng/L	P406573	
		Piperonyl Butoxide**	0.16	U	ng/L	P406573	
		Prallethrin**	2.1	U	ng/L	P406573	
		Tau-Fluvalinate**	0.26	U	ng/L	P406573	
		Tetramethrin**	0.79	U	ng/L	P406573	
		Trans-Nonachlor**	0.21	U	ng/L	P406573	
		Triclosan Methyl**	0.16	U	ng/L	P406573	RPD
2290932	EPA 8270E	Trifluralin	0.21	U	ng/L	P406573	
		Chlordane	2.6	U	ng/L	P406573	
		Toxaphene	16	U	ng/L	P406573	
		Acetochlor	0.26	U	ng/L	P406786	
		Alachlor	0.26	U	ng/L	P406786	
		Ametryn	0.62	U	ng/L	P406786	
		Atrazine	0.26	U	ng/L	P406786	
		Atrazine Desethyl	1.5	U	ng/L	P406786	
		Azinphos Methyl	2.1	U	ng/L	P406786	
		Azoxystrobin**	0.51	U	ng/L	P406786	
		Bromacil	0.87	I	ng/L	P406786	
		Butylate	0.41	U	ng/L	P406786	
		Caffeine**	7.7	U	ng/L	P406786	
		Carbophenothion	0.51	U	ng/L	P406786	
		Carfentrazone Ethyl**	0.10	U	ng/L	P406786	
		Chlorfenapyr**	0.18	U	ng/L	P406786	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P406786	
		Chlorpyrifos Methyl	0.051	U	ng/L	P406786	
		Coumaphos**	0.51	U	ng/L	P406786	
		Cyanazine	3.3	U	ng/L	P406786	
		Cyprodinil**	0.10	U	ng/L	P406786	
		Demeton	1.5	U	ng/L	P406786	
		Diazinon	0.13	U	ng/L	P406786	
		Difenoconazole**	0.62	U	ng/L	P406786	
		Dimethenamid**	0.10	U	ng/L	P406786	
		Dimethomorph**	0.18	UJ	ng/L	P406786	LCS, RPD
		Disulfoton	0.51	U	ng/L	P406786	
		Dithiopyr**	0.18	U	ng/L	P406786	
		EPTC	1.3	U	ng/L	P406786	
		Ethion	0.15	U	ng/L	P406786	

Field ID: G2TLHR0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2290932	EPA 8270E	Ethoprop	0.10	U	ng/L	P406786	
		Etridiazole**	0.15	U	ng/L	P406786	
		Fenamiphos	0.51	U	ng/L	P406786	
		Fenbuconazole**	0.13	U	ng/L	P406786	
		Fipronil	0.26	U	ng/L	P406786	
		Fipronil Desulfinyl**	0.13	U	ng/L	P406786	
		Fipronil Sulfide	0.15	U	ng/L	P406786	
		Fipronil Sulfone	0.15	U	ng/L	P406786	
		Fluazifop-P-butyl**	0.10	U	ng/L	P406786	
		Fludioxonil**	0.13	U	ng/L	P406786	
		Flumioxazin**	3.1	I	ng/L	P406786	
		Flutolanil**	0.10	U	ng/L	P406786	
		Fluxapyroxad**	0.10	U	ng/L	P406786	
		Fonofos	0.21	U	ng/L	P406786	
		Hexazinone	0.51	U	ng/L	P406786	
		Imazalil**	0.77	U	ng/L	P406786	
		Iprodione**	0.62	U	ng/L	P406786	
		Loratadine**	0.10	UJ	ng/L	P406786	LCS, MS
		Malathion	0.36	U	ng/L	P406786	
		Metalaxyl	0.77	U	ng/L	P406786	
		Metolachlor	0.36	U	ng/L	P406786	
		Metribuzin	3.3	U	ng/L	P406786	
		Mevinphos	1.1	U	ng/L	P406786	
		Molinate	0.31	U	ng/L	P406786	
		Myclobutanil**	0.26	U	ng/L	P406786	
		Naled**	1.5	UJ	ng/L	P406786	LCS, MS
		Napropamide**	0.41	U	ng/L	P406786	
		Norflurazon	0.51	U	ng/L	P406786	
		Oxadiazon	0.31	U	ng/L	P406786	
		Oxyfluorfen**	0.15	U	ng/L	P406786	
		Parathion Ethyl	0.26	U	ng/L	P406786	
		Parathion Methyl	0.57	U	ng/L	P406786	
		Pendimethalin	1.0	U	ng/L	P406786	
		Phenytol**	3.6	UJ	ng/L	P406786	MS
		Phorate	0.54	U	ng/L	P406786	
		Prodiamine**	0.18	U	ng/L	P406786	
		Prometon	0.92	U	ng/L	P406786	
		Prometryn	0.21	U	ng/L	P406786	
		Pronamide**	0.15	U	ng/L	P406786	
		Propanil**	0.13	U	ng/L	P406786	
		Propargite**	1.5	U	ng/L	P406786	
		Propiconazole**	0.51	U	ng/L	P406786	
		Pyraflufen Ethyl**	0.26	U	ng/L	P406786	
		Pyridaben**	2.7		ng/L	P406786	
		Pyriproxyfen**	0.13	U	ng/L	P406786	

Field ID: G2TLHR0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2290932	EPA 8270E	Simazine	0.51	U	ng/L	P406786	
		Stirophos**	0.13	U	ng/L	P406786	
		Sulfentrazone**	0.51	U	ng/L	P406786	
		Tebuconazole**	0.51	U	ng/L	P406786	
		Terbufos	0.10	U	ng/L	P406786	
		Terbuthylazine	0.44	U	ng/L	P406786	
		Thiobencarb**	0.62	U	ng/L	P406786	
		Triadimefon**	0.26	U	ng/L	P406786	

Ref. Method and Comment:

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

SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P406720

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407154

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407157

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407084

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407144

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406741

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406641

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406711

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

Reference Method: EPA 8270E
Batch ID: P406573

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P406573

Component	Result	Code	Units
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
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
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P406573

Component	Result	Code	Units
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	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 8270E

Batch ID: P406786

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P406786

Component	Result	Code	Units
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
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	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
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P406786

Component	Result	Code	Units
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
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	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
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P406786

Component	Result	Code	Units
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
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
Phenytol	3.5	U	ng/L
Phenytol	3.5	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
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276

Batch ID: P406573

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

Reference Method: EPA 8321B

Batch ID: P406666

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: P406695

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P406695

Component	Result	Code	Units
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: P406716

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P406784

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

Reference Method: SM 2540 C-2011
Batch ID: P407014

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P407051

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P406787

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P406794

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: P407154

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P407157

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P407084

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P407144

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P406741

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P406641

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P406711

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

Reference Method: EPA 8270E
 Batch ID: P406573

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.1	53.8	P/P	20 - 83.0
Alpha-BHC	88.3	84.2	P/P	74 - 108
Alpha-Chlordane	68.2	55.8	P/P	53 - 109
Beta-BHC	92.1	92.0	P/P	64 - 139
Beta-Cyfluthrin	81.8	59.2	P/P	27 - 171
Bifenthrin	46.5	30.6	P/P	20 - 124
Chlorothalonil	73.0	55.2	P/P	20 - 182
Cis-Nonachlor	73.1	59.3	P/P	46 - 110
Cypermethrin	64.8	49.0	P/P	35 - 160
Dacthal	89.9	84.3	P/P	70 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P406573

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDD-p,p'	76.9	72.6	P/P	51 - 108
DDE-p,p'	67.2	53.4	P/P	51 - 104
DDT-p,p'	72.4	65.4	P/P	52 - 107
Delta-BHC	80.8	75.4	P/P	73 - 146
Deltamethrin	81.6	62.6	P/P	20 - 190
Dichlobenil	84.4	79.0	P/P	30 - 100
Dicofol	67.9	58.3	P/P	52 - 110
Dieldrin	79.4	75.3	P/P	57 - 111
Endosulfan I	80.7	75.1	P/P	61 - 106
Endosulfan II	86.5	74.5	P/P	57 - 122
Endosulfan Sulfate	79.3	74.8	P/P	58 - 122
Endrin	76.2	75.8	P/P	34 - 125
Endrin Aldehyde	63.6	60.1	P/P	40 - 120
Endrin Ketone	107	92.6	P/P	51 - 138
Esfenvalerate	67.1	42.2	P/P	20 - 193
Ethalfuralin	69.2	62.0	P/P	51 - 99.0
Fenpropathrin	65.6	49.3	P/P	40 - 116
Gamma-BHC	84.7	79.2	P/P	74 - 116
Gamma-Chlordane	64.2	51.9	P/P	49 - 105
Heptachlor	65.0	59.4	P/P	45 - 98.0
Heptachlor Epoxide	78.0	75.8	P/P	61 - 106
Hexachlorobenzene	71.4	62.1	P/P	41 - 96.0
Kepone	101	90.6	P/P	27 - 179
Lambda-Cyhalothrin	62.6	43.2	P/P	20 - 199
Methoprene	44.0	27.4	P/P	20 - 134
Methoxychlor	80.9	71.8	P/P	61 - 111
MGK-264	71.1	58.0	P/P	20 - 124
Mirex	55.0	45.7	P/P	20 - 199
Oxychlordane	65.9	57.7	P/P	39 - 112
Permethrin	67.7	48.6	P/P	31 - 155
Phenothrin	44.5	33.8	P/P	20 - 100
Piperonyl Butoxide	94.3	83.7	P/P	20 - 144
Prallethrin	56.8	40.8	P/P	20 - 103
Tau-Fluvalinate	65.2	45.5	P/P	24 - 133
Tetramethrin	94.9	70.0	P/P	20 - 116
Trans-Nonachlor	72.4	67.6	P/P	49 - 105
Triclosan Methyl	82.0	78.3	P/P	60 - 111
Trifluralin	71.4	65.3	P/P	53 - 97.0

Reference Method: EPA 8270E
Batch ID: P406786

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	97.9	102	P/P	70 - 121
Alachlor	84.7	83.5	P/P	70 - 119
Ametryn	103	96.3	P/P	61 - 135
Atrazine	89.0	95.1	P/P	76 - 123
Atrazine Desethyl	69.3	88.5	P/P	35 - 140
Azinphos Methyl	96.6	128	P/P	57 - 163
Azoxystrobin	93.4	88.9	P/P	43 - 231
Bromacil	85.0	87.7	P/P	42 - 123
Butylate	66.4	64.1	P/P	34 - 92.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P406786

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	84.4	91.8	P/P	70 - 130
Carbophenothion	89.6	89.7	P/P	61 - 121
Carfentrazone Ethyl	90.3	93.1	P/P	62 - 139
Chlorfenapyr	85.6	81.9	P/P	50 - 150
Chlorpyrifos Ethyl	77.4	77.5	P/P	67 - 121
Chlorpyrifos Methyl	94.5	93.8	P/P	67 - 120
Coumaphos	149	191	P/P	50 - 220
Cyanazine	92.9	94.1	P/P	20 - 226
Cyprodinil	88.9	89.5	P/P	50 - 150
Demeton	87.2	90.7	P/P	35 - 125
Diazinon	104	103	P/P	70 - 122
Difenoconazole	141	162	P/P	56 - 186
Dimethenamid	84.5	85.3	P/P	67 - 119
Dimethomorph	115	166	P/F	50 - 150
Disulfoton	102	101	P/P	47 - 120
Dithiopyr	92.2	88.1	P/P	67 - 118
EPTC	63.7	65.8	P/P	33 - 90.0
Ethion	85.9	81.6	P/P	40 - 133
Ethoprop	92.3	89.2	P/P	61 - 121
Etridiazole	70.5	68.1	P/P	50 - 150
Fenamiphos	88.2	101	P/P	31 - 139
Fenbuconazole	108	136	P/P	66 - 141
Fipronil	92.4	98.6	P/P	62 - 129
Fipronil Desulfinyl	83.8	89.2	P/P	59 - 126
Fipronil Sulfide	85.9	97.1	P/P	63 - 117
Fipronil Sulfone	90.5	98.9	P/P	57 - 117
Fluazifop-P-butyl	81.7	79.7	P/P	63 - 124
Fludioxonil	93.2	98.5	P/P	63 - 123
Flumioxazin	160	192	P/P	34 - 245
Flutolanil	79.1	76.8	P/P	56 - 131
Fluxapyroxad	62.6	78.5	P/P	57 - 117
Fonofos	97.3	94.4	P/P	61 - 116
Hexazinone	92.4	95.3	P/P	55 - 138
Imazalil	81.6	67.0	P/P	33 - 143
Iprodione	67.7	90.6	P/P	59 - 118
Loratadine	156	168	F/F	50 - 150
Malathion	107	112	P/P	62 - 138
Metalaxyl	76.5	81.0	P/P	24 - 147
Metolachlor	95.8	96.6	P/P	68 - 118
Metribuzin	45.3	35.0	P/P	20 - 239
Mevinphos	72.8	76.3	P/P	46 - 124
Molinate	77.1	75.4	P/P	46 - 100
Myclobutanil	91.9	95.6	P/P	32 - 149
Naled	15.4	16.9	F/F	32 - 95.0
Napropamide	80.3	82.6	P/P	50 - 150
Norflurazon	85.0	98.4	P/P	57 - 127
Oxadiazon	66.8	65.0	P/P	63 - 118
Oxyfluorfen	113	109	P/P	69 - 137
Parathion Ethyl	80.2	77.0	P/P	70 - 113
Parathion Methyl	93.4	104	P/P	71 - 130
Pendimethalin	102	96.3	P/P	55 - 118
Phenytion	73.6	88.7	P/P	50 - 200

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P406786

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	66.6	81.5	P/P	46 - 125
Prodiamine	119	112	P/P	20 - 141
Prometon	98.0	91.8	P/P	54 - 122
Prometryn	77.5	80.0	P/P	66 - 124
Pronamide	88.3	101	P/P	79 - 122
Propanil	97.6	100	P/P	50 - 150
Propargite	115	118	P/P	50 - 200
Propiconazole	106	105	P/P	61 - 126
Pyraflufen Ethyl	116	116	P/P	50 - 150
Pyridaben	147	139	P/P	50 - 200
Pyriproxyfen	96.6	86.8	P/P	52 - 131
Simazine	86.2	88.1	P/P	75 - 128
Stirophos	96.9	99.8	P/P	50 - 150
Sulfentrazone	123	127	P/P	20 - 132
Tebuconazole	50.9	61.1	P/P	20 - 116
Terbufos	111	106	P/P	61 - 117
Terbutylazine	87.3	90.2	P/P	74 - 116
Thiobencarb	90.2	92.2	P/P	50 - 150
Triadimefon	86.4	88.0	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P406573

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.9	84.6	P/P	56 - 117
Toxaphene	100	99.9	P/P	45 - 116

Reference Method: EPA 8321B
Batch ID: P406666

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	107		P	40 - 150
AMPA	93.4		P	40 - 160
Endothall	87.0		P	40 - 150
Glufosinate	95.7		P	40 - 160
Glyphosate	97.4		P	40 - 160
Sucralose	98.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P406695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	69.8		P	40 - 150
2,4,5-T	99.0		P	40 - 150
3-Hydroxycarbofuran	73.8		P	40 - 150
Acetaminophen	79.4		P	30 - 150
Acetamiprid	74.7		P	40 - 150
Afidopyropen	27.7		F	40 - 150
Aldicarb	40.2		P	30 - 150
Aldicarb Sulfone	80.2		P	40 - 150
Aldicarb Sulfoxide	72.9		P	40 - 150
Bentazon	107		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P406695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	86.0		P	40 - 150
Carbamazepine	74.1		P	40 - 150
Carbaryl	77.5		P	40 - 150
Carbofuran	80.2		P	40 - 150
Clothianidin	92.1		P	40 - 150
Dinotefuran	80.1		P	40 - 150
Diuron	70.7		P	40 - 150
Fenuron	97.3		P	40 - 150
Fluridone	92.4		P	40 - 150
Hydrocodone	74.2		P	40 - 150
Ibuprofen	55.2		P	40 - 150
Imazapyr	70.3		P	40 - 150
Imidacloprid	76.8		P	40 - 150
Linuron	86.2		P	40 - 150
Mandestrobin	76.9		P	40 - 150
MCPP	74.9		P	40 - 150
Methiocarb	76.4		P	40 - 150
Methomyl	72.7		P	40 - 150
Naproxen	62.9		P	40 - 150
Oxamyl	81.2		P	40 - 150
Primidone	60.1		P	40 - 150
Propoxur	80.1		P	40 - 150
Pyraclostrobin	85.8		P	40 - 150
Thiamethoxam	86.4		P	40 - 150
Tolfenpyrad	70.4		P	30 - 150
Triclopyr	82.9		P	40 - 150

Reference Method: SM 2120 B-2011

Batch ID: P406716

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-2011

Batch ID: P406784

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P406787

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	93 - 104

Reference Method: SM 5310 B-2011

Batch ID: P406794

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	105		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407154

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290802	Chloride	99.5		P	90 - 110
2291021	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407157

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290802	Sulfate	95.8		P	90 - 110
2291021	Sulfate	94.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407084

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290917	Ammonia-N	97.2	96.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290821	Kjeldahl Nitrogen	91.4	94.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406741

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290967	NO2NO3-N	100	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290781	Total-P	104	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406711

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290968	O-Phosphate-P	101	99.5	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P406573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290515	Aldrin	51.7	66.4	P/P	10 - 94.0
2290515	Alpha-BHC	76.2	83.9	P/P	71 - 108
2290515	Alpha-Chlordane	43.2	54.4	P/P	42 - 115
2290515	Beta-BHC	80.3	89.2	P/P	56 - 161
2290515	Beta-Cyfluthrin	55.7	67.2	P/P	46 - 190
2290515	Bifenthrin	45.2	53.4	P/P	19 - 126
2290515	Chlorothalonil	137	183	P/P	10 - 262
2290515	Cis-Nonachlor	49.2	62.9	P/P	44 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P406573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290515	Cypermethrin	49.5	55.7	P/P	40 - 178
2290515	Dacthal	73.3	86.9	P/P	60 - 119
2290515	DDD-p,p'	55.5	67.8	P/P	40 - 114
2290515	DDE-p,p'	42.3	54.3	P/P	22 - 125
2290515	DDT-p,p'	58.0	72.6	P/P	39 - 110
2290515	Delta-BHC	80.7	87.0	P/P	64 - 174
2290515	Deltamethrin	41.4	58.8	P/P	10 - 227
2290515	Dichlobenil	54.9	63.5	P/P	20 - 99.0
2290515	Dicofol	45.4	49.6	P/P	43 - 115
2290515	Dieldrin	44.8	56.9	P/P	31 - 131
2290515	Endosulfan I	65.1	81.8	P/P	52 - 110
2290515	Endosulfan II	61.1	73.8	P/P	53 - 127
2290515	Endosulfan Sulfate	63.7	76.8	P/P	44 - 135
2290515	Endrin	60.1	92.2	P/P	36 - 122
2290515	Endrin Aldehyde	59.1	81.3	P/P	23 - 115
2290515	Endrin Ketone	74.1	93.1	P/P	46 - 147
2290515	Esfenvalerate	55.2	66.0	P/P	25 - 217
2290515	Ethalfuralin	56.6	69.1	P/P	46 - 99.0
2290515	Fenpropathrin	53.5	57.1	P/P	42 - 121
2290515	Gamma-BHC	75.6	81.2	P/P	63 - 131
2290515	Gamma-Chlordane	41.6	53.6	P/P	40 - 108
2290515	Heptachlor	64.6	80.7	P/P	38 - 98.0
2290515	Heptachlor Epoxide	48.6	60.2	P/P	39 - 124
2290515	Hexachlorobenzene	54.3	67.6	P/P	37 - 96.0
2290515	Kepone	65.1	96.0	P/P	10 - 216
2290515	Lambda-Cyhalothrin	51.1	62.7	P/P	21 - 220
2290515	Methoprene	37.0	33.9	P/P	19 - 112
2290515	Methoxychlor	72.4	92.4	P/P	56 - 118
2290515	MGK-264	44.6	51.0	P/P	28 - 125
2290515	Mirex	44.6	61.1	P/P	10 - 203
2290515	Oxychlordane	56.0	70.9	P/P	46 - 92.0
2290515	Permethrin	55.9	64.5	P/P	42 - 173
2290515	Phenothrin	42.6	46.9	P/P	10 - 140
2290515	Piperonyl Butoxide	74.8	73.5	P/P	10 - 158
2290515	Prallethrin	33.0	31.7	P/P	19 - 119
2290515	Tau-Fluvalinate	44.0	45.8	P/P	27 - 164
2290515	Tetramethrin	64.1	80.8	P/P	16 - 130
2290515	Trans-Nonachlor	55.5	71.8	P/P	43 - 105
2290515	Triclosan Methyl	62.0	80.0	P/P	50 - 113
2290515	Trifluralin	55.3	66.9	P/P	48 - 98.0

Reference Method: EPA 8270E
Batch ID: P406786

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290932	Acetochlor	104	104	P/P	66 - 122
2290932	Alachlor	92.2	88.5	P/P	65 - 122
2290932	Ametryn	85.4	88.3	P/P	45 - 173
2290932	Atrazine	94.7	95.0	P/P	70 - 134
2290932	Atrazine Desethyl	54.5	45.9	P/P	25 - 150
2290932	Azinphos Methyl	131	109	P/P	44 - 174
2290932	Azoxystrobin	95.9	95.2	P/P	10 - 268

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P406786

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290932	Bromacil	81.6	90.9	P/P	31 - 145
2290932	Butylate	66.8	61.5	P/P	15 - 97.0
2290932	Caffeine	92.4	88.1	P/P	70 - 130
2290932	Carbophenothion	95.2	90.0	P/P	42 - 129
2290932	Carfentrazone Ethyl	103	95.6	P/P	62 - 145
2290932	Chlorfenapyr	88.6	87.4	P/P	50 - 150
2290932	Chlorpyrifos Ethyl	99.9	122	P/P	60 - 124
2290932	Chlorpyrifos Methyl	102	103	P/P	66 - 119
2290932	Coumaphos	191	187	P/P	50 - 220
2290932	Cyanazine	100	98.1	P/P	17 - 225
2290932	Cyprodinil	90.0	88.8	P/P	50 - 150
2290932	Demeton	97.1	102	P/P	36 - 142
2290932	Diazinon	108	109	P/P	70 - 128
2290932	Difenoconazole	146	134	P/P	33 - 222
2290932	Dimethenamid	88.7	88.7	P/P	54 - 125
2290932	Dimethomorph	149	139	P/P	50 - 150
2290932	Disulfoton	102	103	P/P	49 - 133
2290932	Dithiopyr	92.7	95.3	P/P	55 - 123
2290932	EPTC	65.2	63.5	P/P	19 - 91.0
2290932	Ethion	79.5	71.5	P/P	13 - 143
2290932	Ethoprop	101	102	P/P	49 - 144
2290932	Etridiazole	73.3	71.0	P/P	50 - 150
2290932	Fenamiphos	109	104	P/P	32 - 136
2290932	Fenbuconazole	139	121	P/P	73 - 148
2290932	Fipronil	107	105	P/P	57 - 129
2290932	Fipronil Desulfanyl	94.1	90.9	P/P	49 - 127
2290932	Fipronil Sulfide	101	97.5	P/P	44 - 127
2290932	Fipronil Sulfone	99.2	94.8	P/P	35 - 126
2290932	Fluazifop-P-butyl	87.4	86.5	P/P	67 - 129
2290932	Fludioxonil	100	98.9	P/P	61 - 126
2290932	Flumioxazin	201	172	P/P	38 - 279
2290932	Flutolanil	81.9	77.5	P/P	55 - 136
2290932	Fluxapyroxad	73.6	57.0	P/P	33 - 140
2290932	Fonofos	98.4	99.9	P/P	58 - 125
2290932	Hexazinone	99.7	99.2	P/P	57 - 148
2290932	Imazalil	90.6	97.8	P/P	10 - 221
2290932	Iprodione	117	137	P/P	32 - 140
2290932	Loratadine	148	166	P/F	50 - 150
2290932	Malathion	113	108	P/P	52 - 138
2290932	Metalaxyl	82.1	80.0	P/P	46 - 134
2290932	Metolachlor	99.3	94.9	P/P	58 - 122
2290932	Metribuzin	62.7	68.9	P/P	16 - 272
2290932	Mevinphos	82.3	84.8	P/P	45 - 140
2290932	Molinate	77.5	78.9	P/P	41 - 103
2290932	Myclobutanil	97.1	93.4	P/P	60 - 134
2290932	Naled	18.0	16.6	F/F	20 - 113
2290932	Napropamide	84.5	81.1	P/P	50 - 150
2290932	Norflurazon	96.8	96.9	P/P	51 - 123
2290932	Oxadiazon	72.2	69.8	P/P	44 - 125
2290932	Oxyfluorfen	116	119	P/P	66 - 176
2290932	Parathion Ethyl	91.5	86.7	P/P	57 - 132
2290932	Parathion Methyl	104	104	P/P	59 - 156

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P406786

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290932	Pendimethalin	95.8	100	P/P	59 - 129
2290932	Phenytoin	57.4	42.8	P/F	50 - 200
2290932	Phorate	98.5	100	P/P	47 - 136
2290932	Prodiamine	113	122	P/P	10 - 159
2290932	Prometon	95.4	91.9	P/P	59 - 127
2290932	Prometryn	82.8	86.5	P/P	59 - 129
2290932	Pronamide	92.9	97.4	P/P	65 - 145
2290932	Propanil	107	106	P/P	50 - 150
2290932	Propargite	112	100	P/P	50 - 200
2290932	Propiconazole	103	102	P/P	28 - 165
2290932	Pyraflufen Ethyl	121	121	P/P	50 - 150
2290932	Pyridaben	170	168	P/P	50 - 200
2290932	Pyriproxyfen	83.1	82.0	P/P	21 - 180
2290932	Simazine	87.2	89.4	P/P	63 - 147
2290932	Stirophos	98.5	92.8	P/P	50 - 150
2290932	Sulfentrazone	128	133	P/P	32 - 136
2290932	Tebuconazole	45.5	37.5	P/P	10 - 117
2290932	Terbufos	115	118	P/P	61 - 131
2290932	Terbutylazine	92.2	90.8	P/P	62 - 126
2290932	Thiobencarb	95.5	91.9	P/P	50 - 150
2290932	Triadimefon	91.5	89.9	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P406573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290607	Chlordane	75.3	80.4	P/P	47 - 128
2290607	Toxaphene	83.7	99.7	P/P	11 - 163

Reference Method: EPA 8321B
Batch ID: P406666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290921	Acesulfame K	123	119	P/P	40 - 150
2290921	AMPA	100	104	P/P	40 - 160
2290921	Endothall	88.2	89.2	P/P	40 - 150
2290921	Glufosinate	101	102	P/P	40 - 160
2290921	Glyphosate	90.8	94.6	P/P	40 - 160
2290921	Sucralose	92.6	100	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P406695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290415	2,4-D	115	88.7	P/P	40 - 150
2290415	2,4,5-T	104	109	P/P	40 - 150
2290415	Acetaminophen	116	100	P/P	30 - 150
2290415	Acetamiprid	95.6	84.9	P/P	40 - 150
2290415	Afidopyropen	56.2	50.2	P/P	40 - 150
2290415	Benzovindiflupyr	94.6	80.2	P/P	40 - 150
2290415	Carbamazepine	110	91.5	P/P	40 - 150
2290415	Clothianidin	125	96.5	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P406695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290415	Dinotefuran	127	124	P/P	40 - 150
2290415	Diuron	84.6	89.2	P/P	40 - 150
2290415	Fenuron	86.1	72.3	P/P	40 - 150
2290415	Fluridone	120	89.7	P/P	40 - 150
2290415	Hydrocodone	110	95.9	P/P	40 - 150
2290415	Ibuprofen	53.3	70.1	P/P	40 - 150
2290415	Imidacloprid	204	155	F/F	40 - 150
2290415	Linuron	74.9	80.8	P/P	40 - 150
2290415	Mandestrobin	92.8	86.1	P/P	40 - 150
2290415	MCCP	87.2	82.4	P/P	40 - 150
2290415	Naproxen	115	101	P/P	40 - 150
2290415	Primidone	117	105	P/P	40 - 150
2290415	Pyraclostrobin	98.7	85.9	P/P	40 - 150
2290415	Thiamethoxam	184	165	F/F	40 - 150
2290415	Tolfenpyrad	89.2	78.9	P/P	30 - 150
2290415	Triclopyr	103	93.5	P/P	40 - 150
2290847	3-Hydroxycarbofuran	91.8	79.9	P/P	40 - 150
2290847	Aldicarb	76.7	52.3	P/P	30 - 150
2290847	Aldicarb Sulfone	94.9	87.3	P/P	40 - 150
2290847	Aldicarb Sulfoxide	82.1	69.0	P/P	40 - 150
2290847	Carbaryl	74.7	66.3	P/P	40 - 150
2290847	Carbofuran	82.2	78.6	P/P	40 - 150
2290847	Methiocarb	75.9	66.6	P/P	40 - 150
2290847	Methomyl	75.3	68.4	P/P	40 - 150
2290847	Oxamyl	85.3	76.2	P/P	40 - 150
2290847	Propoxur	88.4	78.2	P/P	40 - 150

Reference Method: SM 5310 B-2011

Batch ID: P406794

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290925	Organic Carbon	99.4		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P406720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290916	Turbidity	5.05	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407154

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290802	Chloride	0.273	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407157

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290802	Sulfate	0.173	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407084

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290917	Ammonia-N	0.547	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290821	Kjeldahl Nitrogen	2.96	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406741

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290967	NO2NO3-N	2.52	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290781	Total-P	2.89	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290968	O-Phosphate-P	1.10	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P406573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290515	Aldrin	24.9	Spike	P	0 - 37
2290515	Alpha-BHC	9.59	Spike	P	0 - 16
2290515	Alpha-Chlordane	22.8	Spike	P	0 - 28
2290515	Beta-BHC	10.6	Spike	P	0 - 32
2290515	Beta-Cyfluthrin	18.7	Spike	P	0 - 41
2290515	Bifenthrin	16.6	Spike	P	0 - 36
2290515	Chlorothalonil	28.3	Spike	P	0 - 54
2290515	Cis-Nonachlor	24.4	Spike	P	0 - 33
2290515	Cypermethrin	11.8	Spike	P	0 - 38
2290515	Dacthal	17.0	Spike	P	0 - 23
2290515	DDD-p,p'	20.0	Spike	P	0 - 35
2290515	DDE-p,p'	24.7	Spike	P	0 - 27
2290515	DDT-p,p'	22.4	Spike	P	0 - 31
2290515	Delta-BHC	7.55	Spike	P	0 - 30
2290515	Deltamethrin	34.8	Spike	P	0 - 76
2290515	Dichlobenil	14.7	Spike	P	0 - 33
2290515	Dicofol	8.92	Spike	P	0 - 24
2290515	Dieldrin	24.0	Spike	P	0 - 35
2290515	Endosulfan I	22.8	Spike	P	0 - 25
2290515	Endosulfan II	18.8	Spike	P	0 - 31
2290515	Endosulfan Sulfate	18.6	Spike	P	0 - 38
2290515	Endrin	42.2	Spike	P	0 - 53
2290515	Endrin Aldehyde	31.6	Spike	P	0 - 81
2290515	Endrin Ketone	22.7	Spike	P	0 - 33
2290515	Esfenvalerate	17.8	Spike	P	0 - 46
2290515	Ethalfuralin	19.9	Spike	P	0 - 22
2290515	Fenpropathrin	6.51	Spike	P	0 - 29
2290515	Gamma-BHC	7.12	Spike	P	0 - 17
2290515	Gamma-Chlordane	25.2	Spike	P	0 - 28
2290515	Heptachlor	22.1	Spike	P	0 - 28
2290515	Heptachlor Epoxide	21.3	Spike	P	0 - 23
2290515	Hexachlorobenzene	21.9	Spike	P	0 - 22
2290515	Kepone	38.3	Spike	P	0 - 61
2290515	Lambda-Cyhalothrin	20.3	Spike	P	0 - 52
2290515	Methoprene	8.61	Spike	P	0 - 38
2290515	Methoxychlor	24.3	Spike	P	0 - 29
2290515	MGK-264	13.3	Spike	P	0 - 41
2290515	Mirex	31.2	Spike	P	0 - 39
2290515	Oxychlordane	23.5	Spike	P	0 - 33
2290515	Permethrin	14.2	Spike	P	0 - 39
2290515	Phenothrin	9.73	Spike	P	0 - 52
2290515	Piperonyl Butoxide	1.70	Spike	P	0 - 91
2290515	Prallethrin	3.84	Spike	P	0 - 34
2290515	Tau-Fluvalinate	4.07	Spike	P	0 - 41
2290515	Tetramethrin	23.0	Spike	P	0 - 43
2290515	Trans-Nonachlor	25.5	Spike	P	0 - 31
2290515	Triclosan Methyl	25.4	Spike	F	0 - 24
2290515	Trifluralin	18.9	Spike	P	0 - 23
LFB	Aldrin	12.7	LCS	P	0 - 61
LFB	Alpha-BHC	4.72	LCS	P	0 - 15
LFB	Alpha-Chlordane	20.0	LCS	P	0 - 23

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P406573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Beta-BHC	0.0984	LCS	P	0 - 24
LFB	Beta-Cyfluthrin	32.0	LCS	P	0 - 39
LFB	Bifenthrin	41.3	LCS	P	0 - 48
LFB	Chlorothalonil	27.8	LCS	P	0 - 32
LFB	Cis-Nonachlor	20.7	LCS	P	0 - 32
LFB	Cypermethrin	27.7	LCS	P	0 - 34
LFB	Dacthal	6.34	LCS	P	0 - 19
LFB	DDD-p,p'	5.76	LCS	P	0 - 28
LFB	DDE-p,p'	22.9	LCS	P	0 - 24
LFB	DDT-p,p'	10.2	LCS	P	0 - 22
LFB	Delta-BHC	6.95	LCS	P	0 - 20
LFB	Deltamethrin	26.3	LCS	P	0 - 47
LFB	Dichlobenil	6.68	LCS	P	0 - 22
LFB	Dicofol	15.3	LCS	P	0 - 21
LFB	Dieldrin	5.33	LCS	P	0 - 21
LFB	Endosulfan I	7.24	LCS	P	0 - 20
LFB	Endosulfan II	14.8	LCS	P	0 - 22
LFB	Endosulfan Sulfate	5.88	LCS	P	0 - 25
LFB	Endrin	0.610	LCS	P	0 - 20
LFB	Endrin Aldehyde	5.72	LCS	P	0 - 33
LFB	Endrin Ketone	14.0	LCS	P	0 - 20
LFB	Esfenvalerate	45.6	LCS	F	0 - 42
LFB	Ethalfuralin	10.8	LCS	P	0 - 20
LFB	Fenpropathrin	28.3	LCS	P	0 - 29
LFB	Gamma-BHC	6.76	LCS	P	0 - 16
LFB	Gamma-Chlordane	21.2	LCS	P	0 - 23
LFB	Heptachlor	9.06	LCS	P	0 - 27
LFB	Heptachlor Epoxide	2.87	LCS	P	0 - 20
LFB	Hexachlorobenzene	13.9	LCS	P	0 - 24
LFB	Kepone	11.3	LCS	P	0 - 80
LFB	Lambda-Cyhalothrin	36.8	LCS	P	0 - 42
LFB	Methoprene	46.4	LCS	P	0 - 48
LFB	Methoxychlor	12.0	LCS	P	0 - 22
LFB	MGK-264	20.3	LCS	P	0 - 54
LFB	Mirex	18.4	LCS	P	0 - 32
LFB	Oxychlordane	13.2	LCS	P	0 - 21
LFB	Permethrin	32.9	LCS	P	0 - 36
LFB	Phenothrin	27.3	LCS	P	0 - 60
LFB	Piperonyl Butoxide	11.9	LCS	P	0 - 36
LFB	Prallethrin	32.7	LCS	P	0 - 41
LFB	Tau-Fluvalinate	35.5	LCS	P	0 - 40
LFB	Tetramethrin	30.2	LCS	P	0 - 66
LFB	Trans-Nonachlor	6.89	LCS	P	0 - 25
LFB	Triclosan Methyl	4.59	LCS	P	0 - 19
LFB	Trifluralin	8.88	LCS	P	0 - 21

Reference Method: EPA 8270E

Batch ID: P406786

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

Precision

Reference Method: EPA 8270E

Batch ID: P406786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290932	Acetochlor	0.496	Spike	P	0 - 24
2290932	Alachlor	4.10	Spike	P	0 - 24
2290932	Ametryn	3.37	Spike	P	0 - 27
2290932	Atrazine	0.295	Spike	P	0 - 29
2290932	Atrazine Desethyl	17.3	Spike	P	0 - 30
2290932	Azinphos Methyl	18.1	Spike	P	0 - 50
2290932	Azoxystrobin	0.815	Spike	P	0 - 32
2290932	Bromacil	9.65	Spike	P	0 - 30
2290932	Butylate	8.33	Spike	P	0 - 47
2290932	Caffeine	4.72	Spike	P	0 - 60
2290932	Carbophenothion	5.59	Spike	P	0 - 24
2290932	Carfentrazone Ethyl	7.33	Spike	P	0 - 26
2290932	Chlorfenapyr	1.28	Spike	P	0 - 30
2290932	Chlorpyrifos Ethyl	20.3	Spike	P	0 - 27
2290932	Chlorpyrifos Methyl	1.35	Spike	P	0 - 22
2290932	Coumaphos	2.21	Spike	P	0 - 30
2290932	Cyanazine	2.37	Spike	P	0 - 32
2290932	Cyprodinil	1.24	Spike	P	0 - 30
2290932	Demeton	5.36	Spike	P	0 - 25
2290932	Diazinon	0.896	Spike	P	0 - 24
2290932	Difenoconazole	8.65	Spike	P	0 - 25
2290932	Dimethenamid	0.0155	Spike	P	0 - 30
2290932	Dimethomorph	6.74	Spike	P	0 - 30
2290932	Disulfoton	1.08	Spike	P	0 - 26
2290932	Dithiopyr	2.79	Spike	P	0 - 22
2290932	EPTC	2.73	Spike	P	0 - 38
2290932	Ethion	10.6	Spike	P	0 - 47
2290932	Ethoprop	1.09	Spike	P	0 - 23
2290932	Etridiazole	3.09	Spike	P	0 - 30
2290932	Fenamiphos	5.16	Spike	P	0 - 34
2290932	Fenbuconazole	13.8	Spike	P	0 - 37
2290932	Fipronil	2.42	Spike	P	0 - 23
2290932	Fipronil Desulfinyl	3.46	Spike	P	0 - 26
2290932	Fipronil Sulfide	4.01	Spike	P	0 - 23
2290932	Fipronil Sulfone	4.51	Spike	P	0 - 24
2290932	Fluazifop-P-butyl	1.01	Spike	P	0 - 24
2290932	Fludioxonil	1.44	Spike	P	0 - 26
2290932	Flumioxazin	14.0	Spike	P	0 - 37
2290932	Flutolanil	5.48	Spike	P	0 - 26
2290932	Fluxapyroxad	25.3	Spike	P	0 - 34
2290932	Fonofos	1.55	Spike	P	0 - 22
2290932	Hexazinone	0.486	Spike	P	0 - 21
2290932	Imazalil	7.59	Spike	P	0 - 65
2290932	Iprodione	15.8	Spike	P	0 - 33
2290932	Loratadine	11.6	Spike	P	0 - 30
2290932	Malathion	4.38	Spike	P	0 - 26
2290932	Metalaxyl	2.58	Spike	P	0 - 38
2290932	Metolachlor	4.63	Spike	P	0 - 36
2290932	Metribuzin	9.40	Spike	P	0 - 29
2290932	Mevinphos	3.06	Spike	P	0 - 26
2290932	Molinate	1.85	Spike	P	0 - 27

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P406786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290932	Myclobutanil	3.86	Spike	P	0 - 21
2290932	Naled	8.31	Spike	P	0 - 26
2290932	Napropamide	4.20	Spike	P	0 - 30
2290932	Norflurazon	0.111	Spike	P	0 - 24
2290932	Oxadiazon	3.39	Spike	P	0 - 23
2290932	Oxyfluorfen	2.24	Spike	P	0 - 24
2290932	Parathion Ethyl	5.37	Spike	P	0 - 23
2290932	Parathion Methyl	0.529	Spike	P	0 - 23
2290932	Pendimethalin	4.54	Spike	P	0 - 31
2290932	Phenytoin	29.1	Spike	P	0 - 30
2290932	Phorate	1.58	Spike	P	0 - 27
2290932	Prodiamine	7.91	Spike	P	0 - 52
2290932	Prometon	3.79	Spike	P	0 - 31
2290932	Prometryn	4.44	Spike	P	0 - 24
2290932	Pronamide	4.70	Spike	P	0 - 26
2290932	Propanil	0.680	Spike	P	0 - 30
2290932	Propargite	11.3	Spike	P	0 - 30
2290932	Propiconazole	0.363	Spike	P	0 - 31
2290932	Pyraflufen Ethyl	0.0477	Spike	P	0 - 30
2290932	Pyridaben	1.02	Spike	P	0 - 30
2290932	Pyriproxyfen	1.37	Spike	P	0 - 50
2290932	Simazine	2.53	Spike	P	0 - 25
2290932	Stirophos	5.98	Spike	P	0 - 30
2290932	Sulfentrazone	3.74	Spike	P	0 - 33
2290932	Tebuconazole	19.3	Spike	P	0 - 43
2290932	Terbufos	1.93	Spike	P	0 - 22
2290932	Terbuthylazine	1.58	Spike	P	0 - 24
2290932	Thiobencarb	3.77	Spike	P	0 - 30
2290932	Triadimefon	1.74	Spike	P	0 - 30
LFB	Acetochlor	3.60	LCS	P	0 - 22
LFB	Alachlor	1.42	LCS	P	0 - 20
LFB	Ametryn	7.00	LCS	P	0 - 25
LFB	Atrazine	6.68	LCS	P	0 - 20
LFB	Atrazine Desethyl	24.3	LCS	P	0 - 33
LFB	Azinphos Methyl	28.2	LCS	P	0 - 51
LFB	Azoxystrobin	5.01	LCS	P	0 - 47
LFB	Bromacil	3.10	LCS	P	0 - 26
LFB	Butylate	3.53	LCS	P	0 - 35
LFB	Caffeine	8.30	LCS	P	0 - 27
LFB	Carbophenothion	0.102	LCS	P	0 - 22
LFB	Carfentrazone Ethyl	2.97	LCS	P	0 - 21
LFB	Chlorfenapyr	4.44	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	0.117	LCS	P	0 - 23
LFB	Chlorpyrifos Methyl	0.740	LCS	P	0 - 24
LFB	Coumaphos	24.7	LCS	P	0 - 30
LFB	Cyanazine	1.33	LCS	P	0 - 37
LFB	Cyprodinil	0.673	LCS	P	0 - 30
LFB	Demeton	3.92	LCS	P	0 - 32
LFB	Diazinon	0.689	LCS	P	0 - 21
LFB	Difenoconazole	13.4	LCS	P	0 - 37
LFB	Dimethenamid	0.960	LCS	P	0 - 21

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P406786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Dimethomorph	35.7	LCS	F	0 - 30
LFB	Disulfoton	1.20	LCS	P	0 - 31
LFB	Dithiopyr	4.55	LCS	P	0 - 21
LFB	EPTC	3.13	LCS	P	0 - 41
LFB	Ethion	5.15	LCS	P	0 - 45
LFB	Ethoprop	3.35	LCS	P	0 - 28
LFB	Etridiazole	3.50	LCS	P	0 - 30
LFB	Fenamiphos	13.5	LCS	P	0 - 28
LFB	Fenbuconazole	22.3	LCS	P	0 - 36
LFB	Fipronil	6.41	LCS	P	0 - 23
LFB	Fipronil Desulfinyl	6.18	LCS	P	0 - 22
LFB	Fipronil Sulfide	12.3	LCS	P	0 - 24
LFB	Fipronil Sulfone	8.91	LCS	P	0 - 24
LFB	Fluazifop-P-butyl	2.51	LCS	P	0 - 23
LFB	Fludioxonil	5.47	LCS	P	0 - 23
LFB	Flumioxazin	18.4	LCS	P	0 - 39
LFB	Flutolanil	2.99	LCS	P	0 - 27
LFB	Fluxapyroxad	22.5	LCS	P	0 - 38
LFB	Fonofos	2.95	LCS	P	0 - 28
LFB	Hexazinone	3.04	LCS	P	0 - 27
LFB	Imazalil	19.6	LCS	P	0 - 45
LFB	Iprodione	29.0	LCS	P	0 - 42
LFB	Loratadine	7.21	LCS	P	0 - 30
LFB	Malathion	4.16	LCS	P	0 - 23
LFB	Metalaxyl	5.74	LCS	P	0 - 41
LFB	Metolachlor	0.776	LCS	P	0 - 21
LFB	Metribuzin	25.7	LCS	P	0 - 31
LFB	Mevinphos	4.66	LCS	P	0 - 32
LFB	Molinate	2.25	LCS	P	0 - 31
LFB	Myclobutanil	4.02	LCS	P	0 - 27
LFB	Naled	9.10	LCS	P	0 - 32
LFB	Napropamide	2.80	LCS	P	0 - 30
LFB	Norflurazon	14.6	LCS	P	0 - 25
LFB	Oxadiazon	2.74	LCS	P	0 - 25
LFB	Oxyfluorfen	2.98	LCS	P	0 - 22
LFB	Parathion Ethyl	4.09	LCS	P	0 - 32
LFB	Parathion Methyl	11.2	LCS	P	0 - 30
LFB	Pendimethalin	5.53	LCS	P	0 - 39
LFB	Phenytoin	18.5	LCS	P	0 - 30
LFB	Phorate	20.0	LCS	P	0 - 36
LFB	Prodiamine	5.57	LCS	P	0 - 71
LFB	Prometon	6.49	LCS	P	0 - 23
LFB	Prometryn	3.17	LCS	P	0 - 22
LFB	Pronamide	13.3	LCS	P	0 - 21
LFB	Propanil	2.38	LCS	P	0 - 30
LFB	Propargite	1.98	LCS	P	0 - 30
LFB	Propiconazole	1.46	LCS	P	0 - 23
LFB	Pyraflufen Ethyl	0.205	LCS	P	0 - 30
LFB	Pyridaben	5.16	LCS	P	0 - 30
LFB	Pyriproxyfen	10.8	LCS	P	0 - 53
LFB	Simazine	2.19	LCS	P	0 - 22

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P406786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Stiropfos	2.90	LCS	P	0 - 30
LFB	Sulfentrazone	3.30	LCS	P	0 - 45
LFB	Tebuconazole	18.3	LCS	P	0 - 52
LFB	Terbufos	4.98	LCS	P	0 - 27
LFB	Terbutylazine	3.32	LCS	P	0 - 21
LFB	Thiobencarb	2.21	LCS	P	0 - 30
LFB	Triadimefon	1.85	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P406573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290607	Chlordane	6.53	Spike	P	0 - 30
2290607	Toxaphene	17.5	Spike	P	0 - 30
LFB	Chlordane	0.759	LCS	P	0 - 30
LFB	Toxaphene	0.224	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P406666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290921	Acesulfame K	3.07	Spike	P	0 - 30
2290921	AMPA	4.01	Spike	P	0 - 30
2290921	Endothall	1.17	Spike	P	0 - 30
2290921	Glufosinate	1.65	Spike	P	0 - 30
2290921	Glyphosate	4.10	Spike	P	0 - 30
2290921	Sucralose	5.70	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P406695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290415	2,4-D	22.7	Spike	P	0 - 30
2290415	2,4,5-T	4.99	Spike	P	0 - 30
2290415	Acetaminophen	14.4	Spike	P	0 - 30
2290415	Acetamiprid	11.9	Spike	P	0 - 30
2290415	Afidopyropen	11.3	Spike	P	0 - 30
2290415	Bentazon	9.55	Spike	P	0 - 30
2290415	Benzovindiflupyr	16.5	Spike	P	0 - 30
2290415	Carbamazepine	14.2	Spike	P	0 - 30
2290415	Clothianidin	26.0	Spike	P	0 - 30
2290415	Dinotefuran	2.04	Spike	P	0 - 30
2290415	Diuron	5.28	Spike	P	0 - 30
2290415	Fenuron	13.2	Spike	P	0 - 30
2290415	Fluridone	13.4	Spike	P	0 - 30
2290415	Hydrocodone	13.6	Spike	P	0 - 30
2290415	Ibuprofen	27.3	Spike	P	0 - 30
2290415	Imazapyr	4.76	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P406695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290415	Imidacloprid	24.5	Spike	P	0 - 30
2290415	Linuron	7.59	Spike	P	0 - 30
2290415	Mandestrobin	7.59	Spike	P	0 - 30
2290415	MCP	5.67	Spike	P	0 - 30
2290415	Naproxen	13.1	Spike	P	0 - 30
2290415	Primidone	11.3	Spike	P	0 - 30
2290415	Pyraclostrobin	13.9	Spike	P	0 - 30
2290415	Thiamethoxam	10.4	Spike	P	0 - 30
2290415	Tolfenpyrad	12.4	Spike	P	0 - 30
2290415	Triclopyr	9.44	Spike	P	0 - 30
2290847	3-Hydroxycarbofuran	13.9	Spike	P	0 - 30
2290847	Aldicarb	37.8	Spike	F	0 - 30
2290847	Aldicarb Sulfone	8.38	Spike	P	0 - 30
2290847	Aldicarb Sulfoxide	17.4	Spike	P	0 - 30
2290847	Carbaryl	12.0	Spike	P	0 - 30
2290847	Carbofuran	4.53	Spike	P	0 - 30
2290847	Methiocarb	13.1	Spike	P	0 - 30
2290847	Methomyl	9.56	Spike	P	0 - 30
2290847	Oxamyl	11.3	Spike	P	0 - 30
2290847	Propoxur	12.2	Spike	P	0 - 30

Reference Method: SM 2120 B-2011

Batch ID: P406716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290924	Color (true)	1.96	Sample	P	0 - 20

Reference Method: SM 2320 B-2011

Batch ID: P406784

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290766	Total Alkalinity	0.818	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011

Batch ID: P407014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2291024	TDS	4.88	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011

Batch ID: P406787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290766	Fluoride	0.0	Spike	P	0 - 2.1

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P406794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290925	Organic Carbon	5.03	Sample	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2290929
Field Sample ID: G2TLHR0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	93.3	P	30 - 160

Lab Sample ID: 2290930
Field Sample ID: G2TLHR0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	98.5	P	30 - 160
EPA 8321B	Diuron-d6	71.7	P	30 - 160
EPA 8321B	Endothall-d6	92.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.8	P	30 - 160
EPA 8321B	Primidone-d5	98.8	P	30 - 160
EPA 8321B	Sucralose-d6	98.6	P	30 - 160

Lab Sample ID: 2290931
Field Sample ID: G2TLHR0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	48.9	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	30.5	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	59.1	P	29 - 92.0
EPA 8276	PCNB	70.0	P	43 - 134

Lab Sample ID: 2290932
Field Sample ID: G2TLHR0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	70.2	P	20 - 200
EPA 8270E	Simazine-d10	116	P	73 - 135
EPA 8270E	Terbufos-d10	117	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A109057

Included Lab Sample IDs: 2290926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.9	99.7	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A109061

Included Lab Sample IDs: 2290924

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.7	101	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A109065

Included Lab Sample IDs: 2290924

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A109078

Included Lab Sample IDs: 2290925

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

Reference Method: EPA 8321B

Run ID: A109092

Included Lab Sample IDs: 2290930

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	113	97.6	P/P	60 - 160
Endothall	90.5	88.3	P/P	60 - 160
Sucralose	102	101	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A109101

Included Lab Sample IDs: 2290930

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	107	106	P/P	60 - 160
Glufosinate	88.8	97.3	P/P	60 - 160
Glyphosate	91.2	98.7	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A109109

Included Lab Sample IDs: 2290924

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.0	99.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A109109

Included Lab Sample IDs: 2290924

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

Reference Method: EPA 8276

Run ID: A109115

Included Lab Sample IDs: 2290931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.9		P	80 - 120
Toxaphene	115		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A109117

Included Lab Sample IDs: 2290925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.2	98.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A109120

Included Lab Sample IDs: 2290931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	99.8		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	102		P	80 - 120
Bifenthrin	101		P	80 - 120
Cis-Nonachlor	103		P	80 - 120
Cypermethrin	103		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	97.7		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	100		P	80 - 120
Endosulfan Sulfate	98.6		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	93.9		P	80 - 120
Endrin Ketone	116		P	80 - 120
Esfenvalerate	101		P	80 - 120
Ethalfuralin	100		P	80 - 120
Fenpropathrin	101		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A109120
Included Lab Sample IDs: 2290931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	98.9		P	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	98.5		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	103		P	80 - 120
Phenothrin	98.3		P	80 - 120
Piperonyl Butoxide	104		P	80 - 120
Prallethrin	98.0		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	108		P	80 - 120
Trans-Nonachlor	95.7		P	80 - 120
Triclosan Methyl	99.9		P	80 - 120
Trifluralin	99.1		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A109121
Included Lab Sample IDs: 2290925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	105	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A109146
Included Lab Sample IDs: 2290931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorothalonil	90.9		P	80 - 120
Kepone	92.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A109219
Included Lab Sample IDs: 2290932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	109		P	80 - 120
Alachlor	98.1		P	80 - 120
Ametryn	114		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	99.3		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	107		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	96.9		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	98.0		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A109219
Included Lab Sample IDs: 2290932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Methyl	93.6		P	80 - 120
Coumaphos	97.8		P	80 - 120
Cyanazine	98.8		P	80 - 120
Cyprodinil	99.3		P	80 - 120
Demeton	93.5		P	80 - 120
Diazinon	112		P	80 - 120
Difenoconazole	106		P	80 - 120
Dimethenamid	108		P	80 - 120
Dimethomorph	102		P	80 - 120
Disulfoton	97.5		P	80 - 120
Dithiopyr	114		P	80 - 120
EPTC	100		P	80 - 120
Ethion	102		P	80 - 120
Ethoprop	105		P	80 - 120
Etridiazole	112		P	80 - 120
Fenamiphos	103		P	80 - 120
Fenbuconazole	94.1		P	80 - 120
Fipronil	109		P	80 - 120
Fipronil Desulfinyl	99.5		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	97.4		P	80 - 120
Fluazifop-P-butyl	107		P	80 - 120
Fludioxonil	116		P	80 - 120
Flumioxazin	97.6		P	80 - 120
Flutolanil	111		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	87.7		P	80 - 120
Iprodione	86.7		P	80 - 120
Loratadine	112		P	80 - 120
Malathion	81.9		P	80 - 120
Metaxyl	101		P	80 - 120
Metolachlor	111		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	94.4		P	80 - 120
Molinate	100		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	97.9		P	80 - 120
Napropamide	100		P	80 - 120
Norflurazon	105		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	96.0		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	97.5		P	80 - 120
Pendimethalin	100		P	80 - 120
Phenytoin	96.0		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A109219
Included Lab Sample IDs: 2290932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propanil	110		P	80 - 120
Propargite	95.7		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	101		P	80 - 120
Pyridaben	98.9		P	80 - 120
Pyriproxyfen	109		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	87.4		P	80 - 120
Sulfentrazone	99.5		P	80 - 120
Terbufos	97.4		P	80 - 120
Terbuthylazine	104		P	80 - 120
Thiobencarb	114		P	80 - 120
Triadimefon	98.1		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A109230
Included Lab Sample IDs: 2290925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.7	95.9	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A109238
Included Lab Sample IDs: 2290932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azinphos Methyl	107		P	80 - 120
Fluxapyroxad	98.9		P	80 - 120
Tebuconazole	99.3		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A109256
Included Lab Sample IDs: 2290924

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

Reference Method: EPA 8321B
Run ID: A109285
Included Lab Sample IDs: 2290929

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	102	95.1	P/P	60 - 150
Aldicarb	141	95.4	P/P	60 - 150
Aldicarb Sulfone	104	98.8	P/P	50 - 150
Aldicarb Sulfoxide	99.9	101	P/P	50 - 150
Carbaryl	99.8	109	P/P	60 - 150
Carbofuran	93.3	106	P/P	50 - 150
Methiocarb	111	114	P/P	50 - 150
Methomyl	99.4	92.0	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A109285
Included Lab Sample IDs: 2290929

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxamyl	102	103	P/P	50 - 150
Propoxur	110	113	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A109297
Included Lab Sample IDs: 2290925

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	100	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A109350
Included Lab Sample IDs: 2290930

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	73.4	72.4	P/P	50 - 150
2,4,5-T	82.6	94.6	P/P	50 - 150
Acetaminophen	102	95.0	P/P	60 - 160
Acetamiprid	112	101	P/P	50 - 150
Afidopyropen	94.7	96.7	P/P	50 - 150
Bentazon	122	101	P/P	50 - 160
Benzovindiflupyr	120	104	P/P	50 - 150
Carbamazepine	101	96.0	P/P	60 - 150
Clothianidin	132	121	P/P	60 - 150
Dinotefuran	106	96.9	P/P	50 - 150
Diuron	79.3	107	P/P	60 - 160
Fenuron	98.5	97.4	P/P	60 - 150
Fluridone	111	83.9	P/P	60 - 160
Hydrocodone	106	96.9	P/P	60 - 150
Ibuprofen	101	76.6	P/P	50 - 160
Imazapyr	97.2	81.8	P/P	50 - 150
Imidacloprid	99.9	101	P/P	60 - 150
Linuron	76.2	126	P/P	60 - 150
Mandestrobin	101	116	P/P	50 - 150
MCPP	105	88.6	P/P	50 - 150
Naproxen	120	89.1	P/P	50 - 160
Primidone	100	70.6	P/P	60 - 150
Pyraclostrobin	109	106	P/P	60 - 150
Thiamethoxam	101	101	P/P	50 - 150
Tolfenpyrad	106	77.2	P/P	60 - 150
Triclopyr	87.8	83.8	P/P	50 - 150

* 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						5.05	
EPA 300.0 Rev. 2.1	Chloride	99.8		99.5	97.9		0.273	
	Sulfate	98.4		95.8	94.2		0.173	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0		97.2	96.4			0.547
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		94.5	91.4			2.96
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101		100	98.0			2.52
EPA 365.1 Rev. 2.0	Total-P	100		104	108			2.89
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.8		101	99.5			1.10
EPA 8270E	Acetochlor	97.9	102	104	104	3.60		0.496
	Alachlor	84.7	83.5	92.2	88.5	1.42		4.10
	Aldrin	61.1	53.8	51.7	66.4	12.7		24.9
	Alpha-BHC	88.3	84.2	76.2	83.9	4.72		9.59
	Alpha-Chlordane	68.2	55.8	43.2	54.4	20.0		22.8
	Ametryn	103	96.3	85.4	88.3	7.00		3.37
	Atrazine	89.0	95.1	94.7	95.0	6.68		0.295
	Atrazine Desethyl	69.3	88.5	54.5	45.9	24.3		17.3
	Azinphos Methyl	96.6	128	131	109	28.2		18.1
	Azoxystrobin	93.4	88.9	95.9	95.2	5.01		0.815
	Beta-BHC	92.1	92.0	80.3	89.2	0.0984		10.6
	Beta-Cyfluthrin	81.8	59.2	55.7	67.2	32.0		18.7
	Bifenthrin	46.5	30.6	45.2	53.4	41.3		16.6
	Bromacil	85.0	87.7	81.6	90.9	3.10		9.65
	Butylate	66.4	64.1	66.8	61.5	3.53		8.33
	Caffeine	84.4	91.8	92.4	88.1	8.30		4.72
	Carbophenothion	89.6	89.7	95.2	90.0	0.102		5.59
	Carfentrazone Ethyl	90.3	93.1	103	95.6	2.97		7.33
	Chlorfenapyr	85.6	81.9	88.6	87.4	4.44		1.28
	Chlorothalonil	73.0	55.2	137	183	27.8		28.3
	Chlorpyrifos Ethyl	77.4	77.5	99.9	122	0.117		20.3
	Chlorpyrifos Methyl	94.5	93.8	102	103	0.740		1.35
	Cis-Nonachlor	73.1	59.3	49.2	62.9	20.7		24.4
	Coumaphos	149	191	191	187	24.7		2.21
	Cyanazine	92.9	94.1	100	98.1	1.33		2.37
	Cypermethrin	64.8	49.0	49.5	55.7	27.7		11.8
	Cyprodinil	88.9	89.5	90.0	88.8	0.673		1.24
	Dacthal	89.9	84.3	73.3	86.9	6.34		17.0
	DDD-p,p'	76.9	72.6	55.5	67.8	5.76		20.0
	DDE-p,p'	67.2	53.4	42.3	54.3	22.9		24.7
	DDT-p,p'	72.4	65.4	58.0	72.6	10.2		22.4
	Delta-BHC	80.8	75.4	80.7	87.0	6.95		7.55
	Deltamethrin	81.6	62.6	41.4	58.8	26.3		34.8
	Demeton	87.2	90.7	97.1	102	3.92		5.36
	Diazinon	104	103	108	109	0.689		0.896
	Dichlobenil	84.4	79.0	54.9	63.5	6.68		14.7
	Dicofol	67.9	58.3	45.4	49.6	15.3		8.92
	Dieldrin	79.4	75.3	44.8	56.9	5.33		24.0
	Difenoconazole	141	162	146	134	13.4		8.65
	Dimethenamid	84.5	85.3	88.7	88.7	0.960		0.0155
	Dimethomorph	115	166	149	139	35.7		6.74
	Disulfoton	102	101	102	103	1.20		1.08
	Dithiopyr	92.2	88.1	92.7	95.3	4.55		2.79
	Endosulfan I	80.7	75.1	65.1	81.8	7.24		22.8
	Endosulfan II	86.5	74.5	61.1	73.8	14.8		18.8
	Endosulfan Sulfate	79.3	74.8	63.7	76.8	5.88		18.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Endrin	76.2	75.8	60.1	92.2	0.610	42.2
	Endrin Aldehyde	63.6	60.1	59.1	81.3	5.72	31.6
	Endrin Ketone	107	92.6	74.1	93.1	14.0	22.7
	EPTC	63.7	65.8	65.2	63.5	3.13	2.73
	Esfenvalerate	67.1	42.2	55.2	66.0	45.6	17.8
	Ethalfuralin	69.2	62.0	56.6	69.1	10.8	19.9
	Ethion	85.9	81.6	79.5	71.5	5.15	10.6
	Ethoprop	92.3	89.2	101	102	3.35	1.09
	Etridiazole	70.5	68.1	73.3	71.0	3.50	3.09
	Fenamiphos	88.2	101	109	104	13.5	5.16
	Fenbuconazole	108	136	139	121	22.3	13.8
	Fenpropathrin	65.6	49.3	53.5	57.1	28.3	6.51
	Fipronil	92.4	98.6	107	105	6.41	2.42
	Fipronil Desulfinyl	83.8	89.2	94.1	90.9	6.18	3.46
	Fipronil Sulfide	85.9	97.1	101	97.5	12.3	4.01
	Fipronil Sulfone	90.5	98.9	99.2	94.8	8.91	4.51
	Fluazifop-P-butyl	81.7	79.7	87.4	86.5	2.51	1.01
	Fludioxonil	93.2	98.5	100	98.9	5.47	1.44
	Flumioxazin	160	192	201	172	18.4	14.0
	Flutolanil	79.1	76.8	81.9	77.5	2.99	5.48
	Fluxapyroxad	62.6	78.5	73.6	57.0	22.5	25.3
	Fonofos	97.3	94.4	98.4	99.9	2.95	1.55
	Gamma-BHC	84.7	79.2	75.6	81.2	6.76	7.12
	Gamma-Chlordane	64.2	51.9	41.6	53.6	21.2	25.2
	Heptachlor	65.0	59.4	64.6	80.7	9.06	22.1
	Heptachlor Epoxide	78.0	75.8	48.6	60.2	2.87	21.3
	Hexachlorobenzene	71.4	62.1	54.3	67.6	13.9	21.9
	Hexazinone	92.4	95.3	99.7	99.2	3.04	0.486
	Imazalil	81.6	67.0	90.6	97.8	19.6	7.59
	Iprodione	67.7	90.6	117	137	29.0	15.8
	Kepone	101	90.6	65.1	96.0	11.3	38.3
	Lambda-Cyhalothrin	62.6	43.2	51.1	62.7	36.8	20.3
	Loratadine	156	168	148	166	7.21	11.6
	Malathion	107	112	113	108	4.16	4.38
	Metalaxyl	76.5	81.0	82.1	80.0	5.74	2.58
	Methoprene	27.4	44.0	37.0	33.9	46.4	8.61
	Methoxychlor	80.9	71.8	72.4	92.4	12.0	24.3
	Metolachlor	96.6	95.8	99.3	94.9	0.776	4.63
	Metribuzin	45.3	35.0	62.7	68.9	25.7	9.40
	Mevinphos	72.8	76.3	82.3	84.8	4.66	3.06
	MGK-264	71.1	58.0	44.6	51.0	20.3	13.3
	Mirex	55.0	45.7	44.6	61.1	18.4	31.2
	Molinate	77.1	75.4	77.5	78.9	2.25	1.85
	Myclobutanil	91.9	95.6	97.1	93.4	4.02	3.86
	Naled	15.4	16.9	18.0	16.6	9.10	8.31
	Napropamide	80.3	82.6	84.5	81.1	2.80	4.20
	Norflurazon	85.0	98.4	96.8	96.9	14.6	0.111
	Oxadiazon	66.8	65.0	72.2	69.8	2.74	3.39
	Oxychlordane	65.9	57.7	56.0	70.9	13.2	23.5
	Oxyfluorfen	113	109	116	119	2.98	2.24
	Parathion Ethyl	80.2	77.0	91.5	86.7	4.09	5.37
	Parathion Methyl	93.4	104	104	104	11.2	0.529
	Pendimethalin	102	96.3	95.8	100	5.53	4.54
	Permethrin	67.7	48.6	55.9	64.5	32.9	14.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Phenothrin	44.5	33.8	42.6	46.9	27.3	9.73
	Phenytain	73.6	88.7	57.4	42.8	18.5	29.1
	Phorate	66.6	81.5	98.5	100	20.0	1.58
	Piperonyl Butoxide	94.3	83.7	74.8	73.5	11.9	1.70
	Prallethrin	56.8	40.8	33.0	31.7	32.7	3.84
	Prodiamine	119	112	113	122	5.57	7.91
	Prometon	98.0	91.8	95.4	91.9	6.49	3.79
	Prometryn	77.5	80.0	82.8	86.5	3.17	4.44
	Pronamide	88.3	101	92.9	97.4	13.3	4.70
	Propanil	97.6	100	107	106	2.38	0.680
	Propargite	115	118	112	100	1.98	11.3
	Propiconazole	106	105	103	102	1.46	0.363
	Pyraflufen Ethyl	116	116	121	121	0.205	0.0477
	Pyridaben	147	139	170	168	5.16	1.02
	Pyriproxyfen	96.6	86.8	83.1	82.0	10.8	1.37
	Simazine	86.2	88.1	87.2	89.4	2.19	2.53
	Stirophos	96.9	99.8	98.5	92.8	2.90	5.98
	Sulfentrazone	123	127	128	133	3.30	3.74
	Tau-Fluvalinate	65.2	45.5	44.0	45.8	35.5	4.07
	Tebuconazole	50.9	61.1	45.5	37.5	18.3	19.3
	Terbufos	111	106	115	118	4.98	1.93
	Terbuthylazine	87.3	90.2	92.2	90.8	3.32	1.58
	Tetramethrin	94.9	70.0	64.1	80.8	30.2	23.0
	Thiobencarb	90.2	92.2	95.5	91.9	2.21	3.77
	Trans-Nonachlor	72.4	67.6	55.5	71.8	6.89	25.5
	Triadimefon	86.4	88.0	91.5	89.9	1.85	1.74
	Triclosan Methyl	82.0	78.3	62.0	80.0	4.59	25.4
	Trifluralin	71.4	65.3	55.3	66.9	8.88	18.9
EPA 8276	Chlordane	83.9	84.6	75.3	80.4	0.759	6.53
	Toxaphene	100	99.9	83.7	99.7	0.224	17.5
EPA 8321B	2,4-D	69.8		115	88.7		22.7
	2,4,5-T	99.0		104	109		4.99
	3-Hydroxycarbofuran	73.8		91.8	79.9		13.9
	Acesulfame K	107		123	119		3.07
	Acetaminophen	79.4		116	100		14.4
	Acetamiprid	74.7		95.6	84.9		11.9
	Afidopyropen	27.7		56.2	50.2		11.3
	Aldicarb	40.2		76.7	52.3		37.8
	Aldicarb Sulfone	80.2		94.9	87.3		8.38
	Aldicarb Sulfoxide	72.9		82.1	69.0		17.4
	AMPA	93.4		100	104		4.01
	Bentazon	107					9.55
	Benzovindiflupyr	86.0		94.6	80.2		16.5
	Carbamazepine	74.1		110	91.5		14.2
	Carbaryl	77.5		74.7	66.3		12.0
	Carbofuran	80.2		82.2	78.6		4.53
	Clothianidin	92.1		125	96.5		26.0
	Dinotefuran	80.1		127	124		2.04
	Diuron	70.7		84.6	89.2		5.28
	Endothall	87.0		88.2	89.2		1.17
	Fenuron	97.3		86.1	72.3		13.2
	Fluridone	92.4		120	89.7		13.4
	Glufosinate	95.7		101	102		1.65
	Glyphosate	97.4		90.8	94.6		4.10

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Hydrocodone	74.2	110	95.9		13.6
	Ibuprofen	55.2	53.3	70.1		27.3
	Imazapyr	70.3				4.76
	Imidacloprid	76.8	204	155		24.5
	Linuron	86.2	74.9	80.8		7.59
	Mandestrobin	76.9	92.8	86.1		7.59
	MCPP	74.9	87.2	82.4		5.67
	Methiocarb	76.4	75.9	66.6		13.1
	Methomyl	72.7	75.3	68.4		9.56
	Naproxen	62.9	115	101		13.1
	Oxamyl	81.2	85.3	76.2		11.3
	Primidone	60.1	117	105		11.3
	Propoxur	80.1	88.4	78.2		12.2
	Pyraclostrobin	85.8	98.7	85.9		13.9
	Sucralose	98.4	92.6	100		5.70
	Thiamethoxam	86.4	184	165		10.4
	Tolfenpyrad	70.4	89.2	78.9		12.4
	Triclopyr	82.9	103	93.5		9.44
SM 2120 B-2011	Color (true)	100			1.96	
SM 2320 B-2011	Total Alkalinity	102			0.818	
SM 2540 C-2011	TDS				4.88	
SM 4500 F-C-2011	Fluoride	99.0				0.0
SM 5310 B-2011	Organic Carbon	105	99.4		5.03	

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2290924
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2290924
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2290924
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2290925
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2290925
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2290925
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2290925
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2290926
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2290931
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2290932
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2290931
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2290929
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2290930
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2290924
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2290924
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2290924
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2290924
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2290924
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2290925

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	11/22/2021			11/23/2021 16:13	Khloe J Berg	2290924
EPA 300.0 Rev. 2.1	11/22/2021			12/07/2021 01:20	James L Waggeberby	2290924
EPA 350.1 Rev. 2.0	11/22/2021			12/06/2021 15:07	Ping Hua	2290925
EPA 351.2 Rev. 2.0	11/22/2021	12/08/2021 16:51	Alexandra J Mattheus	12/09/2021 12:39	Alexandra J Mattheus	2290925
EPA 353.2 Rev. 2.0	11/22/2021			11/24/2021 09:36	Beverly Y. Sanders	2290925
EPA 365.1 Rev. 2.0	11/22/2021	11/23/2021 12:38	Simonne.V. Calhoun	11/24/2021 12:43	Sarah A Nixon	2290925
EPA 365.1 Rev. 2.0 dissolved	11/22/2021			11/23/2021 14:32	James L Waggeberby	2290926
EPA 8270E	11/22/2021	11/23/2021 08:00	Fe-Val Siddell	11/25/2021 04:16	Julie Wi	2290931
	11/22/2021	11/23/2021 08:00	Fe-Val Siddell	12/01/2021 08:10	Julie Wi	2290931
	11/22/2021	11/29/2021 08:00	Fe-Val Siddell	12/03/2021 15:58	Michael Poppell	2290932
	11/22/2021	11/29/2021 08:00	Fe-Val Siddell	12/06/2021 20:45	Michael Poppell	2290932
EPA 8276	11/22/2021	11/23/2021 08:00	Fe-Val Siddell	11/27/2021 15:19	Arthur Maknenko	2290931
EPA 8321B	11/22/2021	11/24/2021 09:00	Juyoung Kim	11/24/2021 10:26	Juyoung Kim	2290930
	11/22/2021	11/24/2021 09:00	Juyoung Kim	11/24/2021 12:35	Manjita Shrestha	2290930
	11/22/2021	11/24/2021 09:00	Manjita Shrestha	12/07/2021 03:03	Juyoung Kim	2290929
	11/22/2021	11/24/2021 09:00	Manjita Shrestha	12/10/2021 04:10	Juyoung Kim	2290930
SM 2120 B-2011	11/22/2021			11/23/2021 15:29	Blanca Fach	2290924
SM 2320 B-2011	11/22/2021			11/24/2021 22:29	Dale L. Simmons	2290924
SM 2540 C-2011	11/22/2021			11/24/2021 14:26	Yijie Li	2290924
SM 2540 D-2011	11/22/2021			11/24/2021 14:26	Yijie Li	2290924
SM 4500 F-C-2011	11/22/2021			11/24/2021 22:29	Dale L. Simmons	2290924
SM 5310 B-2011	11/22/2021			11/27/2021 05:40	Touraj Touran	2290925