Chemical Analysis Report

SE-DIST-2023-02-17-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **SMP - Basinger**
Request ID: **RQ-2023-02-06-30**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant Date Certified: 09-MAR-2023 11:01

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: Chandler Slough @ Southern US98 Culvert **Collection Date/Time: 02/16/2023 10:20**

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388355	DEP SOP: NU-094-1	Color (true)	94		PCU	P426020	
	EPA 180.1 Rev. 2.0	Turbidity	0.65	I	NTU	P426043	
	EPA 300.0 Rev. 2.1	Chloride	270		mg Cl/L	P426648	
		Sulfate	98		mg SO4/L	P426652	
	SM 2320 B-2011	Total Alkalinity	100		mg CaCO3/L	P426294	
	SM 2540 C-2015	TDS	754		mg/L	P426485	
	SM 2540 D-2015	TSS	2	I	mg/L	P426376	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P426298	
2388356	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P426419	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P426331	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.032		mg N/L	P426153	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P426132	
	SM 5310 B-2011	Organic Carbon	21		mg C/L	P426274	
2388378	EPA 8321B	Aldicarb	0.020	U	ug/L	P425953	
		Aldicarb Sulfone	0.0020	U	ug/L	P425953	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P425953	MS
		Carbaryl	0.0020	U	ug/L	P425953	
		Carbofuran	0.0020	U	ug/L	P425953	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P425953	
		Methiocarb	0.0020	U	ug/L	P425953	
		Methomyl	0.0020	U	ug/L	P425953	
		Oxamyl	0.0020	U	ug/L	P425953	
		Propoxur	0.0020	U	ug/L	P425953	MS
2388379		2,4-D	0.0020	U	ug/L	P426017	
		Acesulfame K	0.10	U	ug/L	P425983	MS
		2,4,5-T	0.0040	U	ug/L	P426017	
		AMPA	0.15	I	ug/L	P425983	
		Acetaminophen	0.0080	U	ug/L	P426017	
		Acetamiprid	0.0020	U	ug/L	P426017	
		Endothall	0.25	U	ug/L	P425983	
		Glufosinate	0.10	U	ug/L	P425983	MS
		Glyphosate	0.10	U	ug/L	P425983	
		Afidopyropen	0.0020	U	ug/L	P426017	
		Bentazon	0.15		ug/L	P426017	
		Sucralose	0.051		ug/L	P425983	
		Benzovindiflupyr	0.0020	U	ug/L	P426017	
		Carbamazepine	8.0E-04	U	ug/L	P426017	
		Clothianidin	0.0020	U	ug/L	P426017	
		Dinotefuran	0.0020	U	ug/L	P426017	
		Diuron	0.0020	U	ug/L	P426017	
		Fenuron	0.032	U	ug/L	P426017	
		Fluridone	8.0E-04	U	ug/L	P426017	
		Imazapyr	0.025		ug/L	P426017	
		Hydrocodone	0.0020	U	ug/L	P426017	

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388379	EPA 8321B	Ibuprofen	0.080	U	ug/L	P426017	
		Imidacloprid	0.0023	I	ug/L	P426017	
		Linuron	0.0040	U	ug/L	P426017	
		Mandestrobin	0.0020	U	ug/L	P426017	
		MCPP	0.0020	U	ug/L	P426017	
		Naproxen	0.0080	U	ug/L	P426017	
		Primidone	0.0040	U	ug/L	P426017	
		Pyraclostrobin	0.0020	U	ug/L	P426017	
		Silvex	0.0040	U	ug/L	P426017	
		Thiamethoxam	0.0028	I	ug/L	P426017	
		Tolfenpyrad	0.0020	U	ug/L	P426017	
		Triclopyr	0.0040	U	ug/L	P426017	
2388389	EPA 8270E	Aldrin	0.67	U	ng/L	P426345	
		Alpha-BHC	0.10	U	ng/L	P426345	
		Alpha-Chlordane	0.21	U	ng/L	P426345	
		PCB-1016	2.1	U	ng/L	P426345	
		Beta-BHC	0.10	U	ng/L	P426345	
		PCB-1221	2.1	U	ng/L	P426345	
		Beta-Cyfluthrin	1.3	U	ng/L	P426345	
		PCB-1232	2.1	U	ng/L	P426345	
		Bifenthrin	0.52	U	ng/L	P426345	
		PCB-1242	2.1	U	ng/L	P426345	
		PCB-1248	2.1	U	ng/L	P426345	
		Chlorothalonil	3.7	U	ng/L	P426345	
		PCB-1254	2.1	U	ng/L	P426345	
		Cis-Nonachlor	0.21	U	ng/L	P426345	
		PCB-1260	2.1	U	ng/L	P426345	
		Cypermethrin	1.5	U	ng/L	P426345	
		Dacthal	0.15	U	ng/L	P426345	
		DDD-p,p'	0.26	U	ng/L	P426345	
		DDE-p,p'	0.21	U	ng/L	P426345	
		DDT-p,p'	0.26	U	ng/L	P426345	
		Delta-BHC	0.41	U	ng/L	P426345	
		Deltamethrin	1.3	U	ng/L	P426345	
		Dichlobenil	0.26	U	ng/L	P426345	
		Dicofol	1.3	U	ng/L	P426345	
		Dieldrin	0.41	U	ng/L	P426345	
		Endosulfan I	0.41	U	ng/L	P426345	
		Endosulfan II	0.41	U	ng/L	P426345	
		Endosulfan Sulfate	0.31	U	ng/L	P426345	
		Endrin	0.41	U	ng/L	P426345	
		Endrin Aldehyde	0.77	U	ng/L	P426345	
		Endrin Ketone	0.41	U	ng/L	P426345	MS
		Esfenvalerate	0.77	U	ng/L	P426345	
		Ethalfluralin	0.15	U	ng/L	P426345	

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388389	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P426345	
		Gamma-BHC	0.13	U	ng/L	P426345	
		Gamma-Chlordane	0.21	U	ng/L	P426345	
		Heptachlor	0.21	U	ng/L	P426345	
		Heptachlor Epoxide	0.26	U	ng/L	P426345	
		Hexachlorobenzene**	1.0	U	ng/L	P426345	
		Kepone	5.2	U	ng/L	P426345	
		Lambda-Cyhalothrin	0.77	U	ng/L	P426345	
		Methoprene	0.77	U	ng/L	P426345	
		Methoxychlor	0.31	U	ng/L	P426345	
		MGK-264	0.21	U	ng/L	P426345	
		Mirex	0.36	U	ng/L	P426345	
		Oxychlordane	0.31	U	ng/L	P426345	
		Permethrin	1.7	U	ng/L	P426345	MS
		Phenothrin	0.93	U	ng/L	P426345	
		Piperonyl Butoxide	0.15	UJ	ng/L	P426345	LCS
		Prallethrin	2.1	U	ng/L	P426345	
		Tau-Fluvalinate	0.26	U	ng/L	P426345	
		Tetramethrin	0.77	U	ng/L	P426345	
		Trans-Nonachlor	0.21	U	ng/L	P426345	
		Triclosan Methyl	0.15	U	ng/L	P426345	
		Trifluralin	0.21	U	ng/L	P426345	
	EPA 8276	Chlordane	2.1	U	ng/L	P426345	
		Toxaphene	15	U	ng/L	P426345	
2388390	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P426002	
		Acetochlor	0.24	U	ng/L	P426002	
		Octinoxate**	19	U	ng/L	P426002	
		Alachlor	0.24	U	ng/L	P426002	
		Avobenzone**	97	U	ng/L	P426002	
		Ametryn	3.1		ng/L	P426002	
		Atrazine	9.6		ng/L	P426002	
		PBDE-47**	3.9	U	ng/L	P426002	
		Atrazine Desethyl	1.5	U	ng/L	P426002	
		PBDE-99**	4.8	U	ng/L	P426002	
		Azinphos Methyl	1.9	U	ng/L	P426002	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P426002	
		Azoxystrobin	3.9		ng/L	P426002	
		Bromacil	0.48	U	ng/L	P426002	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P426002	
		Butylate	0.39	U	ng/L	P426002	
		Dechlorane Plus**	29	U	ng/L	P426002	
		Caffeine**	7.3	U	ng/L	P426002	
		Carbophenothion	0.19	U	ng/L	P426002	
		Carfentrazone Ethyl	0.097	U	ng/L	P426002	

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388390	EPA 8270E	Chlorfenapyr	0.17	U	ng/L	P426002	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P426002	
		Chlorpyrifos Methyl	0.048	U	ng/L	P426002	
		Coumaphos	0.48	UJ	ng/L	P426002	RPD
		Cyanazine	3.1	U	ng/L	P426002	
		Cyprodinil	0.097	U	ng/L	P426002	
		Demeton	1.5	U	ng/L	P426002	
		Diazinon	0.12	U	ng/L	P426002	
		Difenoconazole	0.58	U	ng/L	P426002	
		Dimethenamid	0.097	UJ	ng/L	P426002	MS
		Dimethomorph	0.17	U	ng/L	P426002	
		Disulfoton	0.48	U	ng/L	P426002	
		Dithiopyr	0.61	U	ng/L	P426002	
		EPTC	1.2	U	ng/L	P426002	
		Ethion	0.15	U	ng/L	P426002	
		Ethoprop	0.097	UJ	ng/L	P426002	MS
		Etridiazole	0.15	U	ng/L	P426002	
		Fenamiphos	0.48	U	ng/L	P426002	
		Fenbuconazole	0.12	U	ng/L	P426002	
		Fipronil	0.24	U	ng/L	P426002	
		Fipronil Desulfinyl**	0.12	U	ng/L	P426002	
		Fipronil Sulfide	0.15	U	ng/L	P426002	
		Fipronil Sulfone	0.15	UJ	ng/L	P426002	MS, RPD
		Fluazifop-P-butyl	0.097	U	ng/L	P426002	
		Fludioxonil	0.12	U	ng/L	P426002	
		Flumioxazin	4.4	U	ng/L	P426002	
		Flutolanil	2.9		ng/L	P426002	
		Fluxapyroxad	0.097	U	ng/L	P426002	
		Fonofos	0.19	U	ng/L	P426002	
		Hexazinone	33		ng/L	P426002	
		Imazalil	0.73	U	ng/L	P426002	
		Iprodione	6.0		ng/L	P426002	
		Loratadine**	0.34	U	ng/L	P426002	
		Malathion	0.34	U	ng/L	P426002	
		Metalaxyl	0.73	U	ng/L	P426002	
		Metolachlor	5.3		ng/L	P426002	
		Metribuzin	3.2	I	ng/L	P426002	
		Mevinphos	1.0	U	ng/L	P426002	
		Molinate	0.29	U	ng/L	P426002	
		Myclobutanil	0.24	U	ng/L	P426002	
		Naled	1.5	U	ng/L	P426002	
		Napropamide	0.39	UJ	ng/L	P426002	MS
		Norflurazon	0.48	UJ	ng/L	P426002	MS, RPD
		Oxadiazon	0.29	U	ng/L	P426002	
		Oxyfluorfen	0.15	U	ng/L	P426002	

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388390	EPA 8270E	Parathion Ethyl	0.24	UJ	ng/L	P426002	LCS
		Parathion Methyl	0.53	UJ	ng/L	P426002	LCS
		Pendimethalin	0.97	U	ng/L	P426002	
		Phenytoin**	3.4	U	ng/L	P426002	
		Phorate	0.51	U	ng/L	P426002	
		Prodiamine	0.17	U	ng/L	P426002	
		Prometon	0.87	U	ng/L	P426002	
		Prometryn	4.4		ng/L	P426002	
		Pronamide	59		ng/L	P426002	
		Propanil	0.12	U	ng/L	P426002	
		Propargite	1.5	U	ng/L	P426002	
		Propiconazole	0.48	UJ	ng/L	P426002	MS, RPD
		Pyraflufen Ethyl	0.24	UJ	ng/L	P426002	MS, RPD
		Pyridaben	0.44	U	ng/L	P426002	
		Pyriproxyfen	0.12	U	ng/L	P426002	
		Simazine	0.71	I	ng/L	P426002	
		Stirophos	0.12	U	ng/L	P426002	
		Sulfentrazone	36		ng/L	P426002	
		Tebuconazole	0.48	U	ng/L	P426002	
		Terbufos	0.097	U	ng/L	P426002	
		Terbuthylazine	0.41	U	ng/L	P426002	
		Thiobencarb	0.58	U	ng/L	P426002	
		Triadimefon	0.24	U	ng/L	P426002	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low 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.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Oak Creek @ 68 **Collection Date/Time: 02/16/2023 12:40**

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388380	EPA 8321B	Aldicarb	0.020	U	ug/L	P425953	
		Aldicarb Sulfone	0.0020	U	ug/L	P425953	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P425953	MS
		Carbaryl	0.0020	U	ug/L	P425953	
		Carbofuran	0.0020	U	ug/L	P425953	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P425953	
		Methiocarb	0.0020	U	ug/L	P425953	
		Methomyl	0.0020	U	ug/L	P425953	
		Oxamyl	0.0020	U	ug/L	P425953	
		Propoxur	0.0020	U	ug/L	P425953	MS
2388381		2,4-D	0.33		ug/L	P426090	
		Acesulfame K	0.10	U	ug/L	P425983	MS
		2,4,5-T	0.0040	U	ug/L	P426090	
		AMPA	0.10	U	ug/L	P425983	
		Acetaminophen	0.0080	U	ug/L	P426090	
		Acetamiprid	0.0020	U	ug/L	P426090	
		Endothall	0.25	U	ug/L	P425983	
		Glufosinate	0.10	U	ug/L	P425983	MS
		Glyphosate	0.10	U	ug/L	P425983	
		Afidopyropen	0.0020	U	ug/L	P426090	
		Bentazon	8.0E-04	U	ug/L	P426090	
		Sucralose	0.010	U	ug/L	P425983	
		Benzovindiflupyr	0.0020	U	ug/L	P426090	
		Carbamazepine	8.0E-04	U	ug/L	P426090	
		Clothianidin	0.0020	U	ug/L	P426090	
		Dinotefuran	0.0020	U	ug/L	P426090	
		Diuron	0.0020	U	ug/L	P426090	
		Fenuron	0.032	U	ug/L	P426090	
		Fluridone	8.0E-04	U	ug/L	P426090	
		Imazapyr	0.013	I	ug/L	P426090	
		Hydrocodone	0.0020	U	ug/L	P426090	
		Ibuprofen	0.080	U	ug/L	P426090	
		Imidacloprid	0.0020	U	ug/L	P426090	
		Linuron	0.0040	U	ug/L	P426090	
		Mandestrobin	0.0020	U	ug/L	P426090	
		MCPP	0.0020	U	ug/L	P426090	
		Naproxen	0.0080	U	ug/L	P426090	
		Primidone	0.0040	U	ug/L	P426090	
		Pyraclostrobin	0.0020	U	ug/L	P426090	
		Silvex	0.0040	U	ug/L	P426090	
		Thiamethoxam	0.0020	U	ug/L	P426090	
		Tolfenpyrad	0.0020	U	ug/L	P426090	
		Triclopyr	0.0040	U	ug/L	P426090	
2388391	EPA 8270E	Aldrin	0.67	U	ng/L	P426119	RPD

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388391	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P426119	
		Alpha-Chlordane	0.21	UJ	ng/L	P426119	CCV
		PCB-1016	2.1	U	ng/L	P426119	
		Beta-BHC	0.10	U	ng/L	P426119	
		PCB-1221	2.1	U	ng/L	P426119	
		Beta-Cyfluthrin	1.3	U	ng/L	P426119	
		PCB-1232	2.1	U	ng/L	P426119	
		Bifenthrin	0.51	U	ng/L	P426119	
		PCB-1242	2.1	U	ng/L	P426119	
		PCB-1248	2.1	U	ng/L	P426119	
		Chlorothalonil	3.7	U	ng/L	P426119	MS, RPD
		PCB-1254	2.1	U	ng/L	P426119	
		Cis-Nonachlor	0.21	U	ng/L	P426119	
		PCB-1260	2.1	U	ng/L	P426119	
		Cypermethrin	1.5	U	ng/L	P426119	
		Dacthal	0.15	U	ng/L	P426119	
		DDD-p,p'	0.26	U	ng/L	P426119	
		DDE-p,p'	0.21	U	ng/L	P426119	
		DDT-p,p'	0.26	U	ng/L	P426119	
		Delta-BHC	0.65	I	ng/L	P426119	
		Deltamethrin	1.3	U	ng/L	P426119	
		Dichlobenil	0.26	U	ng/L	P426119	
		Dicofol	1.3	U	ng/L	P426119	
		Dieldrin	0.41	U	ng/L	P426119	
		Endosulfan I	0.41	U	ng/L	P426119	
		Endosulfan II	0.41	U	ng/L	P426119	
		Endosulfan Sulfate	0.31	U	ng/L	P426119	
		Endrin	0.41	U	ng/L	P426119	
		Endrin Aldehyde	0.77	U	ng/L	P426119	
		Endrin Ketone	0.41	U	ng/L	P426119	
		Esfenvalerate	0.77	U	ng/L	P426119	
		Ethalfluralin	0.15	U	ng/L	P426119	
		Fenpropathrin	0.26	U	ng/L	P426119	RPD
		Gamma-BHC	0.13	U	ng/L	P426119	
		Gamma-Chlordane	0.21	U	ng/L	P426119	
		Heptachlor	0.21	U	ng/L	P426119	
		Heptachlor Epoxide	0.26	U	ng/L	P426119	MS, RPD
		Hexachlorobenzene**	1.0	U	ng/L	P426119	
		Kepone	5.1	U	ng/L	P426119	
		Lambda-Cyhalothrin	0.77	U	ng/L	P426119	
		Methoprene	0.77	U	ng/L	P426119	
		Methoxychlor	0.31	UJ	ng/L	P426119	LCS, RPD
		MGK-264	0.21	U	ng/L	P426119	MS, RPD
		Mirex	0.36	U	ng/L	P426119	
		Oxychlordane	0.31	U	ng/L	P426119	MS, RPD

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388391	EPA 8270E	Permethrin	1.6	U	ng/L	P426119	
		Phenothrin	0.92	U	ng/L	P426119	
		Piperonyl Butoxide	0.17	I J	ng/L	P426119	LCS
		Prallethrin	2.1	U	ng/L	P426119	
		Tau-Fluvalinate	0.26	U	ng/L	P426119	
		Tetramethrin	0.77	U	ng/L	P426119	
		Trans-Nonachlor	0.21	U	ng/L	P426119	
		Triclosan Methyl	0.15	U	ng/L	P426119	
		Trifluralin	0.21	U	ng/L	P426119	
	EPA 8276	Chlordane	2.1	U	ng/L	P426119	
		Toxaphene	15	U	ng/L	P426119	MS
2388392	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P426002	
		Acetochlor	0.24	U	ng/L	P426002	
		Octinoxate**	19	U	ng/L	P426002	
		Alachlor	0.24	U	ng/L	P426002	
		Avobenzone**	96	U	ng/L	P426002	
		Ametryn	0.58	U	ng/L	P426002	
		Atrazine	11		ng/L	P426002	
		PBDE-47**	3.8	U	ng/L	P426002	
		Atrazine Desethyl	1.4	U	ng/L	P426002	
		PBDE-99**	4.8	U	ng/L	P426002	
		Azinphos Methyl	1.9	U	ng/L	P426002	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P426002	
		Azoxystrobin	0.48	U	ng/L	P426002	
		Bromacil	0.48	U	ng/L	P426002	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P426002	
		Butylate	0.38	U	ng/L	P426002	
		Dechlorane Plus**	29	U	ng/L	P426002	
		Caffeine**	7.2	U	ng/L	P426002	
		Carbophenothion	0.19	U	ng/L	P426002	
		Carfentrazone Ethyl	0.096	U	ng/L	P426002	
		Chlorfenapyr	0.17	U	ng/L	P426002	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P426002	
		Chlorpyrifos Methyl	0.048	U	ng/L	P426002	
		Coumaphos	0.48	U	ng/L	P426002	RPD
		Cyanazine	3.1	U	ng/L	P426002	
		Cyprodinil	0.096	U	ng/L	P426002	
		Demeton	1.4	U	ng/L	P426002	
		Diazinon	0.12	UJ	ng/L	P426002	CCV
		Difenoconazole	0.58	U	ng/L	P426002	
		Dimethenamid	0.096	U	ng/L	P426002	MS
		Dimethomorph	0.17	U	ng/L	P426002	
		Disulfoton	0.48	U	ng/L	P426002	
		Dithiopyr	0.60	U	ng/L	P426002	

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388392	EPA 8270E	EPTC	1.2	U	ng/L	P426002	
		Ethion	0.14	U	ng/L	P426002	
		Ethoprop	0.096	U	ng/L	P426002	MS
		Etridiazole	0.14	U	ng/L	P426002	
		Fenamiphos	0.48	U	ng/L	P426002	
		Fenbuconazole	0.12	U	ng/L	P426002	
		Fipronil	0.24	U	ng/L	P426002	
		Fipronil Desulfinyl**	0.12	U	ng/L	P426002	
		Fipronil Sulfide	0.14	U	ng/L	P426002	
		Fipronil Sulfone	0.14	U	ng/L	P426002	MS, RPD
		Fluazifop-P-butyl	0.096	U	ng/L	P426002	
		Fludioxonil	0.12	U	ng/L	P426002	
		Flumioxazin	4.3	U	ng/L	P426002	
		Flutolanil	0.096	U	ng/L	P426002	
		Fluxapyroxad	0.096	U	ng/L	P426002	
		Fonofos	0.19	U	ng/L	P426002	
		Hexazinone	100		ng/L	P426002	
		Imazalil	0.72	U	ng/L	P426002	
		Iprodione	0.58	U	ng/L	P426002	
		Loratadine**	0.34	U	ng/L	P426002	
		Malathion	0.58	I	ng/L	P426002	
		Metalaxyl	0.72	U	ng/L	P426002	
		Metolachlor	3.3		ng/L	P426002	
		Metribuzin	1.4	U	ng/L	P426002	
		Mevinphos	1.0	U	ng/L	P426002	
		Molinate	0.29	U	ng/L	P426002	
		Myclobutanil	0.24	U	ng/L	P426002	
		Naled	1.4	U	ng/L	P426002	
		Napropamide	0.38	U	ng/L	P426002	MS
		Norflurazon	0.48	U	ng/L	P426002	MS, RPD
		Oxadiazon	0.29	U	ng/L	P426002	
		Oxyfluorfen	0.14	U	ng/L	P426002	
		Parathion Ethyl	0.24	UJ	ng/L	P426002	LCS
		Parathion Methyl	0.53	UJ	ng/L	P426002	LCS
		Pendimethalin	0.96	U	ng/L	P426002	
		Phenytoin**	3.4	U	ng/L	P426002	
		Phorate	0.50	U	ng/L	P426002	
		Prodiamine	0.17	U	ng/L	P426002	
		Prometon	0.86	U	ng/L	P426002	
		Prometryn	0.19	U	ng/L	P426002	
		Pronamide	0.14	U	ng/L	P426002	
		Propanil	0.12	U	ng/L	P426002	
		Propargite	1.4	U	ng/L	P426002	
		Propiconazole	0.48	U	ng/L	P426002	MS, RPD
		Pyraflufen Ethyl	0.24	U	ng/L	P426002	MS, RPD

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388392	EPA 8270E	Pyridaben	0.43	U	ng/L	P426002	
		Pyriproxyfen	0.12	U	ng/L	P426002	
		Simazine	0.48	U	ng/L	P426002	
		Stirophos	0.12	U	ng/L	P426002	
		Sulfentrazone	0.48	U	ng/L	P426002	
		Tebuconazole	0.48	U	ng/L	P426002	
		Terbufos	0.096	U	ng/L	P426002	
		Terbuthylazine	0.41	U	ng/L	P426002	
		Thiobencarb	0.58	U	ng/L	P426002	
		Triadimefon	0.24	U	ng/L	P426002	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for some analytes 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 multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Sevenmile Slough at Peavine Trail **Collection Date/Time: 02/16/2023 13:45**

Field ID: G4SE0153 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388357	DEP SOP: NU-094-1	Color (true)	330		PCU	P426020	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P426043	
	EPA 300.0 Rev. 2.1	Chloride	25		mg Cl/L	P426648	
		Sulfate	0.32	I	mg SO4/L	P426652	
	SM 2320 B-2011	Total Alkalinity	6.2		mg CaCO3/L	P426294	
	SM 2540 C-2015	TDS	116		mg/L	P426485	
	SM 2540 D-2015	TSS	4	I	mg/L	P426376	
	SM 4500-F- C-2011	Fluoride	0.050	I	mg F/L	P426298	
2388358	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P426419	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P426331	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P426153	
	EPA 365.1 Rev. 2.0	Total-P	0.033		mg P/L	P426132	
	SM 5310 B-2011	Organic Carbon	36		mg C/L	P426274	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Kissimmee Tributary at US 98-East of Buckhorn

Collection Date/Time: 02/16/2023 11:15

Field ID: G4SE0155

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2388382	EPA 8321B	2,4-D	0.0020	U	ug/L	P426090	
		Acesulfame K	0.10	U	ug/L	P425983	MS
		2,4,5-T	0.0040	U	ug/L	P426090	
		AMPA	0.10	U	ug/L	P425983	
		Acetaminophen	0.0080	U	ug/L	P426090	
		Acetamiprid	0.0020	U	ug/L	P426090	
		Endothall	0.25	U	ug/L	P425983	
		Glufosinate	0.10	U	ug/L	P425983	MS
		Glyphosate	0.10	U	ug/L	P425983	
		Afidopyropen	0.0020	U	ug/L	P426090	
		Bentazon	8.0E-04	U	ug/L	P426090	
		Sucralose	0.056		ug/L	P425983	
		Benzovindiflupyr	0.0020	U	ug/L	P426090	
		Carbamazepine	8.0E-04	U	ug/L	P426090	
		Clothianidin	0.025		ug/L	P426090	
		Dinotefuran	0.0020	U	ug/L	P426090	
		Diuron	0.0043	I	ug/L	P426090	
		Fenuron	0.032	U	ug/L	P426090	
		Fluridone	8.0E-04	U	ug/L	P426090	
		Imazapyr	0.0059	I	ug/L	P426090	
		Hydrocodone	0.0020	U	ug/L	P426090	
		Ibuprofen	0.080	U	ug/L	P426090	
		Imidacloprid	0.13		ug/L	P426090	
		Linuron	0.0040	U	ug/L	P426090	
		Mandestrobin	0.0020	U	ug/L	P426090	
		MCPP	0.0020	U	ug/L	P426090	
		Naproxen	0.0080	U	ug/L	P426090	
		Primidone	0.0040	U	ug/L	P426090	
		Pyraclostrobin	0.0020	U	ug/L	P426090	
		Silvex	0.0040	U	ug/L	P426090	
		Thiamethoxam	0.034		ug/L	P426090	
		Tolfenpyrad	0.0020	U	ug/L	P426090	
		Triclopyr	0.0040	U	ug/L	P426090	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P426020

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426043

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426648

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426652

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426419

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426331

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426153

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426132

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

Reference Method: EPA 8270E
Batch ID: P426002

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426002

Component	Result	Code	Units
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
Avobenzone	100	U	ng/L
Avobenzone	100	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	0.20	U	ng/L
Carbophenothion	0.20	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
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	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	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426002

Component	Result	Code	Units
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
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	4.5	U	ng/L
Flumioxazin	4.5	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	0.35	U	ng/L
Loratadine	0.35	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	1.5	U	ng/L
Metribuzin	1.5	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426002

Component	Result	Code	Units
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
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	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
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426002

Component	Result	Code	Units
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
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E
Batch ID: P426119

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426119

Component	Result	Code	Units
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
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
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426119

Component	Result	Code	Units
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
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: P426345

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426345

Component	Result	Code	Units
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426345

Component	Result	Code	Units
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
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: P426119

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8276
Batch ID: P426345

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P426345

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P425953

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

Reference Method: EPA 8321B
Batch ID: P425983

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: P426017

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P426017

Component	Result	Code	Units
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P426090

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

Reference Method: SM 2320 B-2011
Batch ID: P426294

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P426485

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426376

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426298

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P426274

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P426020

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426043

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426648

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426652

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426419

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426331

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426153

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426132

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

Reference Method: EPA 8270E
Batch ID: P426002

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	87.3		P	42 - 162
Acetochlor	92.3		P	69 - 123
Alachlor	76.7		P	65 - 118
Ametryn	86.0		P	58 - 141

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P426002

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	117		P	73 - 118
Atrazine Desethyl	75.9		P	32 - 125
Avobenzone	102		P	40 - 203
Azinphos Methyl	128		P	36 - 197
Azoxystrobin	164		P	58 - 226
Bromacil	82.8		P	48 - 120
Butylate	75.9		P	27 - 85.0
Caffeine	95.5		P	40 - 137
Carbophenothion	87.6		P	54 - 132
Carfentrazone Ethyl	65.0		P	60 - 142
Chlorfenapyr	89.1		P	53 - 117
Chlorpyrifos Ethyl	95.6		P	59 - 116
Chlorpyrifos Methyl	81.1		P	66 - 119
Coumaphos	75.0		P	11 - 234
Cyanazine	133		P	61 - 248
Cyprodinil	123		P	50 - 147
Dechlorane Plus	97.6		P	47 - 182
Demeton	102		P	30 - 138
Diazinon	101		P	67 - 126
Difenoconazole	145		P	38 - 205
Dimethenamid	103		P	57 - 111
Dimethomorph	157		P	16 - 212
Disulfoton	121		P	46 - 126
Dithiopyr	91.1		P	62 - 115
EPTC	64.5		P	28 - 80.0
Ethion	27.3		P	24 - 122
Ethoprop	104		P	62 - 113
Etridiazole	59.5		P	28 - 92.0
Fenamiphos	83.3		P	57 - 128
Fenbuconazole	130		P	52 - 155
Fipronil	91.1		P	63 - 130
Fipronil Desulfinyl	81.5		P	61 - 130
Fipronil Sulfide	102		P	56 - 117
Fipronil Sulfone	99.9		P	52 - 118
Fluazifop-P-butyl	86.0		P	61 - 128
Fludioxonil	101		P	59 - 129
Flumioxazin	107		P	30 - 250
Flutolanil	74.1		P	53 - 127
Fluxapyroxad	62.2		P	42 - 132
Fonofos	84.5		P	61 - 110
Hexazinone	105		P	46 - 139
Imazalil	106		P	40 - 139
Iprodione	119		P	40 - 146
Loratadine	184		P	10 - 224
Malathion	104		P	61 - 135
Metalaxyl	85.2		P	58 - 121
Metolachlor	88.9		P	64 - 118
Metribuzin	128		P	45 - 245
Mevinphos	103		P	49 - 118
Molinate	66.8		P	42 - 92.0
Myclobutanil	86.3		P	55 - 127
Naled	112		P	10 - 114

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P426002

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Napropamide	50.6		P	39 - 121
Norflurazon	81.7		P	55 - 129
Octinoxate	82.8		P	26 - 166
Oxadiazon	64.9		P	54 - 115
Oxybenzone	80.8		P	49 - 135
Oxyfluorfen	129		P	64 - 139
Parathion Ethyl	124		F	70 - 111
Parathion Methyl	181		F	76 - 136
PBDE-47	64.3		P	41 - 148
PBDE-99	76.0		P	38 - 147
Pendimethalin	114		P	52 - 118
Phenytoin	14.6		P	10 - 162
Phorate	71.9		P	40 - 122
Prodiamine	59.6		P	26 - 141
Prometon	85.2		P	54 - 122
Prometryn	77.7		P	61 - 128
Pronamide	80.7		P	72 - 121
Propanil	79.1		P	45 - 144
Propargite	42.3		P	10 - 199
Propiconazole	70.4		P	56 - 127
Pyraflufen Ethyl	111		P	56 - 140
Pyridaben	103		P	26 - 211
Pyriproxyfen	64.9		P	33 - 194
Simazine	103		P	67 - 121
Stirophos	30.3		P	20 - 142
Sulfentrazone	92.7		P	21 - 144
Tebuconazole	38.1		P	10 - 122
Terbufos	83.1		P	60 - 129
Terbuthylazine	113		P	69 - 113
Thiobencarb	75.9		P	51 - 120
Tri-o-cresyl Phosphate	81.1		P	49 - 150
Triadimefon	70.5		P	56 - 114

Reference Method: EPA 8270E
Batch ID: P426119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.3		P	10 - 92.0
Alpha-BHC	94.7		P	75 - 107
Alpha-Chlordane	62.5		P	50 - 108
Beta-BHC	79.0		P	36 - 138
Beta-Cyfluthrin	73.5		P	20 - 161
Bifenthrin	47.6		P	10 - 119
Chlorothalonil	68.6		P	26 - 186
Cis-Nonachlor	86.5		P	42 - 119
Cypermethrin	73.8		P	22 - 150
Dacthal	82.0		P	72 - 119
DDD-p,p'	65.3		P	45 - 107
DDE-p,p'	80.4		P	48 - 106
DDT-p,p'	60.8		P	48 - 110
Delta-BHC	107		P	54 - 140
Deltamethrin	126		P	22 - 189

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P426119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dichlobenil	65.7		P	36 - 117
Dicofol	51.9		P	46 - 155
Dieldrin	81.5		P	54 - 110
Endosulfan I	74.5		P	59 - 105
Endosulfan II	77.0		P	51 - 118
Endosulfan Sulfate	102		P	57 - 121
Endrin	87.7		P	10 - 120
Endrin Aldehyde	82.2		P	34 - 118
Endrin Ketone	104		P	69 - 177
Esfenvalerate	70.2		P	23 - 168
Ethalfluralin	66.7		P	49 - 99.0
Fenpropathrin	59.0		P	34 - 117
Gamma-BHC	103		P	72 - 117
Gamma-Chlordane	58.7		P	43 - 106
Heptachlor	69.8		P	41 - 98.0
Heptachlor Epoxide	84.7		P	57 - 106
Hexachlorobenzene	48.6		P	36 - 99.0
Kepone	86.2		P	16 - 215
Lambda-Cyhalothrin	63.0		P	21 - 177
Methoprene	68.6		P	10 - 119
Methoxychlor	56.1		F	60 - 112
MGK-264	75.5		P	26 - 122
Mirex	72.9		P	10 - 169
Oxychlordane	79.5		P	43 - 105
PCB-1016	74.3		P	48 - 112
PCB-1260	70.9		P	44 - 118
Permethrin	79.4		P	24 - 148
Phenothrin	57.7		P	10 - 106
Piperonyl Butoxide	167		F	10 - 139
Prallethrin	85.8		P	17 - 109
Tau-Fluvalinate	63.8		P	13 - 131
Tetramethrin	81.8		P	10 - 132
Trans-Nonachlor	78.7		P	44 - 106
Triclosan Methyl	67.6		P	59 - 109
Trifluralin	65.5		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P426345

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	46.1		P	10 - 92.0
Alpha-BHC	88.7		P	75 - 107
Alpha-Chlordane	68.0		P	50 - 108
Beta-BHC	93.3		P	36 - 138
Beta-Cyfluthrin	58.0		P	20 - 161
Bifenthrin	35.8		P	10 - 119
Chlorothalonil	107		P	26 - 186
Cis-Nonachlor	64.8		P	42 - 119
Cypermethrin	56.0		P	22 - 150
Dacthal	93.9		P	72 - 119
DDD-p,p'	68.3		P	45 - 107
DDE-p,p'	72.1		P	48 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P426345

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDT-p,p'	67.4		P	48 - 110
Delta-BHC	102		P	54 - 140
Deltamethrin	64.6		P	22 - 189
Dichlobenil	69.0		P	36 - 117
Dicofol	75.5		P	46 - 155
Dieldrin	81.3		P	54 - 110
Endosulfan I	80.9		P	59 - 105
Endosulfan II	90.5		P	51 - 118
Endosulfan Sulfate	96.7		P	57 - 121
Endrin	86.4		P	10 - 120
Endrin Aldehyde	95.3		P	34 - 118
Endrin Ketone	92.8		P	69 - 177
Esfenvalerate	50.3		P	23 - 168
Ethalfluralin	67.4		P	49 - 99.0
Fenpropathrin	63.6		P	34 - 117
Gamma-BHC	95.4		P	72 - 117
Gamma-Chlordane	65.8		P	43 - 106
Heptachlor	59.4		P	41 - 98.0
Heptachlor Epoxide	80.6		P	57 - 106
Hexachlorobenzene	50.7		P	36 - 99.0
Kepone	112		P	16 - 215
Lambda-Cyhalothrin	26.6		P	21 - 177
Methoprene	58.5		P	10 - 119
Methoxychlor	79.8		P	60 - 112
MGK-264	82.5		P	26 - 122
Mirex	44.4		P	10 - 169
Oxychlordane	69.6		P	43 - 105
PCB-1016	63.7		P	48 - 112
PCB-1260	57.4		P	44 - 118
Permethrin	35.1		P	24 - 148
Phenothrin	42.0		P	10 - 106
Piperonyl Butoxide	143		F	10 - 139
Prallethrin	79.8		P	17 - 109
Tau-Fluvalinate	42.1		P	13 - 131
Tetramethrin	101		P	10 - 132
Trans-Nonachlor	66.5		P	44 - 106
Triclosan Methyl	83.2		P	59 - 109
Trifluralin	67.6		P	44 - 101

Reference Method: EPA 8276
Batch ID: P426119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	75.6		P	61 - 116
Toxaphene	70.9		P	48 - 124

Reference Method: EPA 8276
Batch ID: P426345

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	61.7		P	61 - 116
Toxaphene	60.6		P	48 - 124

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P425953

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	92.3		P	40 - 150
Aldicarb	78.2		P	30 - 150
Aldicarb Sulfone	93.5		P	40 - 150
Aldicarb Sulfoxide	97.5		P	40 - 150
Carbaryl	69.0		P	40 - 150
Carbofuran	66.9		P	40 - 150
Methiocarb	65.3		P	40 - 150
Methomyl	90.3		P	40 - 150
Oxamyl	96.8		P	40 - 150
Propoxur	71.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P425983

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	119		P	40 - 150
AMPA	107		P	40 - 150
Endothall	105		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	105		P	40 - 150
Sucralose	111		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	117		P	40 - 150
2,4,5-T	95.6		P	40 - 150
Acetaminophen	97.0		P	30 - 150
Acetamiprid	98.7		P	40 - 150
Afidopyropen	74.2		P	30 - 150
Bentazon	120		P	30 - 150
Benzovindiflupyr	87.3		P	40 - 150
Carbamazepine	84.1		P	40 - 150
Clothianidin	98.3		P	40 - 150
Dinotefuran	103		P	40 - 150
Diuron	72.4		P	40 - 150
Fenuron	95.2		P	40 - 150
Fluridone	74.2		P	40 - 150
Hydrocodone	82.4		P	40 - 150
Ibuprofen	106		P	40 - 150
Imazapyr	95.6		P	40 - 150
Imidacloprid	97.2		P	40 - 150
Linuron	82.7		P	40 - 150
Mandestrobin	90.4		P	40 - 150
MCPP	94.8		P	40 - 150
Naproxen	91.0		P	40 - 150
Primidone	96.3		P	40 - 150
Pyraclostrobin	82.9		P	40 - 150
Silvex	102		P	40 - 150
Thiamethoxam	102		P	40 - 150
Tolfenpyrad	62.9		P	30 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P426017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	86.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	140		P	40 - 150
2,4,5-T	105		P	40 - 150
Acetaminophen	94.6		P	30 - 150
Acetamiprid	103		P	40 - 150
Afidopyropen	80.8		P	30 - 150
Bentazon	134		P	30 - 150
Benzovindiflupyr	90.3		P	40 - 150
Carbamazepine	95.2		P	40 - 150
Clothianidin	72.7		P	40 - 150
Dinotefuran	115		P	40 - 150
Diuron	70.3		P	40 - 150
Fenuron	78.2		P	40 - 150
Fluridone	83.5		P	40 - 150
Hydrocodone	88.0		P	40 - 150
Ibuprofen	65.6		P	40 - 150
Imazapyr	94.9		P	40 - 150
Imidacloprid	107		P	40 - 150
Linuron	71.4		P	40 - 150
Mandestrobin	102		P	40 - 150
MCPP	96.7		P	40 - 150
Naproxen	75.2		P	40 - 150
Primidone	94.3		P	40 - 150
Pyraclostrobin	82.1		P	40 - 150
Silvex	102		P	40 - 150
Thiamethoxam	87.7		P	40 - 150
Tolfenpyrad	49.5		P	30 - 150
Triclopyr	93.9		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P426294

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.5		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P426485

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

Reference Method: SM 2540 D-2015
Batch ID: P426376

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.3		P	85 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P426298

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.5		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426648

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388411	Chloride	96.4		P	90 - 110
2388412	Chloride	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426652

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388411	Sulfate	100		P	90 - 110
2388412	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426419

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388386	Ammonia-N	99.0	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426331

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388385	Kjeldahl Nitrogen	91.9	95.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426153

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388356	NO2NO3-N	97.1	98.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426132

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388410	Total-P	98.9	99.7	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426002

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388390	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	45.4	45.6	P/P	26 - 165
2388390	Acetochlor	90.8	82.4	P/P	67 - 124
2388390	Alachlor	98.3	107	P/P	60 - 120
2388390	Ametryn	133	121	P/P	54 - 216
2388390	Atrazine	85.9	74.7	P/P	66 - 128
2388390	Atrazine Desethyl	83.2	78.1	P/P	15 - 122
2388390	Avobenzone	61.4	59.0	P/P	37 - 178
2388390	Azinphos Methyl	96.4	88.0	P/P	40 - 292
2388390	Azoxystrobin	111	98.3	P/P	35 - 220
2388390	Bromacil	50.4	68.3	P/P	45 - 127
2388390	Butylate	57.7	62.0	P/P	20 - 83.0
2388390	Caffeine	67.1	62.1	P/P	10 - 194
2388390	Carbophenothion	97.7	88.4	P/P	57 - 127
2388390	Carfentrazone Ethyl	84.5	66.8	P/P	51 - 141

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426002

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388390	Chlorfenapyr	83.0	80.5	P/P	46 - 111
2388390	Chlorpyrifos Ethyl	68.8	88.7	P/P	52 - 120
2388390	Chlorpyrifos Methyl	75.2	79.3	P/P	63 - 119
2388390	Coumaphos	27.3	13.7	P/P	10 - 228
2388390	Cyanazine	88.5	111	P/P	59 - 241
2388390	Cyprodinil	143	123	P/P	47 - 146
2388390	Dechlorane Plus	85.2	75.1	P/P	50 - 150
2388390	Demeton	90.7	66.2	P/P	40 - 136
2388390	Diazinon	107	83.2	P/P	69 - 132
2388390	Difenoconazole	158	128	P/P	57 - 258
2388390	Dimethenamid	61.2	43.9	P/F	54 - 110
2388390	Dimethomorph	72.4	85.5	P/P	28 - 210
2388390	Disulfoton	109	131	P/P	43 - 133
2388390	Dithiopyr	107	90.2	P/P	39 - 116
2388390	EPTC	58.4	54.9	P/P	20 - 78.0
2388390	Ethion	26.3	30.7	P/P	17 - 119
2388390	Ethoprop	124	149	F/F	66 - 120
2388390	Etridiazole	73.4	53.6	P/P	28 - 96.0
2388390	Fenamiphos	79.3	80.0	P/P	41 - 126
2388390	Fenbuconazole	107	59.9	P/P	42 - 169
2388390	Fipronil	131	119	P/P	61 - 132
2388390	Fipronil Desulfinyl	121	89.1	P/P	56 - 132
2388390	Fipronil Sulfide	90.7	108	P/P	48 - 119
2388390	Fipronil Sulfone	49.0	2.18	P/F	42 - 131
2388390	Fluazifop-P-butyl	120	92.1	P/P	53 - 131
2388390	Fludioxonil	94.2	82.4	P/P	56 - 127
2388390	Flumioxazin	53.1	35.8	P/P	19 - 300
2388390	Flutolanil	61.7	75.5	P/P	41 - 127
2388390	Fluxapyroxad	79.8	71.6	P/P	42 - 172
2388390	Fonofos	101	78.8	P/P	59 - 113
2388390	Hexazinone	77.9	106	P/P	66 - 122
2388390	Imazalil	167	100	P/P	21 - 283
2388390	Loratadine	55.7	46.6	P/P	23 - 201
2388390	Malathion	74.7	96.9	P/P	58 - 136
2388390	Metalaxyl	93.2	97.6	P/P	55 - 120
2388390	Metolachlor	77.8	89.3	P/P	57 - 121
2388390	Metribuzin	122	117	P/P	58 - 294
2388390	Mevinphos	75.3	67.4	P/P	50 - 126
2388390	Molinate	74.7	80.6	P/P	42 - 93.0
2388390	Myclobutanil	61.4	79.1	P/P	55 - 125
2388390	Naled	91.3	64.8	P/P	18 - 200
2388390	Napropamide	5.40	3.49	F/F	39 - 110
2388390	Norflurazon	15.8	6.29	F/F	48 - 128
2388390	Octinoxate	56.5	57.4	P/P	21 - 159
2388390	Oxadiazon	74.8	71.3	P/P	43 - 112
2388390	Oxybenzone	52.1	53.6	P/P	41 - 142
2388390	Oxyfluorfen	131	150	P/P	64 - 153
2388390	Parathion Ethyl	87.7	90.4	P/P	69 - 114
2388390	Parathion Methyl	109	81.7	P/P	79 - 139
2388390	PBDE-47	30.8	34.2	P/P	27 - 144
2388390	PBDE-99	35.6	35.8	P/P	18 - 150
2388390	Pendimethalin	85.2	99.3	P/P	50 - 139

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426002

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388390	Phenytoin	39.3	16.3	P/P	10 - 146
2388390	Phorate	98.3	81.5	P/P	54 - 161
2388390	Prodiamine	104	73.3	P/P	30 - 161
2388390	Prometon	74.5	64.5	P/P	45 - 134
2388390	Propanil	76.3	93.5	P/P	49 - 142
2388390	Propargite	23.3	15.7	P/P	10 - 203
2388390	Propiconazole	41.8	14.2	P/F	38 - 146
2388390	Pyraflufen Ethyl	40.8	5.06	P/F	34 - 153
2388390	Pyridaben	158	118	P/P	12 - 192
2388390	Pyriproxyfen	39.5	36.7	P/P	33 - 180
2388390	Simazine	75.7	85.0	P/P	51 - 157
2388390	Stirophos	15.4	18.9	P/P	10 - 128
2388390	Tebuconazole	43.6	25.6	P/P	10 - 133
2388390	Terbufos	126	127	P/P	65 - 139
2388390	Terbuthylazine	91.1	77.1	P/P	66 - 117
2388390	Thiobencarb	86.8	107	P/P	51 - 119
2388390	Tri-o-cresyl Phosphate	53.1	52.6	P/P	31 - 144
2388390	Triadimefon	116	114	P/P	48 - 119

Reference Method: EPA 8270E
Batch ID: P426119

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388525	PCB-1016	79.6	68.1	P/P	46 - 111
2388525	PCB-1260	66.4	59.3	P/P	45 - 114
2388547	Aldrin	54.7	35.1	P/P	20 - 82.0
2388547	Alpha-BHC	93.6	92.6	P/P	71 - 109
2388547	Alpha-Chlordane	81.3	83.6	P/P	42 - 106
2388547	Beta-BHC	97.6	97.5	P/P	69 - 180
2388547	Beta-Cyfluthrin	99.8	91.3	P/P	18 - 175
2388547	Bifenthrin	55.6	46.0	P/P	21 - 128
2388547	Chlorothalonil	21.6	5.59	P/F	10 - 300
2388547	Cis-Nonachlor	60.8	64.0	P/P	34 - 106
2388547	Cypermethrin	90.5	84.0	P/P	22 - 158
2388547	Dacthal	96.5	92.3	P/P	54 - 116
2388547	DDD-p,p'	72.3	81.4	P/P	34 - 107
2388547	DDE-p,p'	68.5	67.9	P/P	33 - 110
2388547	DDT-p,p'	62.8	54.8	P/P	50 - 122
2388547	Delta-BHC	124	131	P/P	77 - 193
2388547	Deltamethrin	119	79.4	P/P	10 - 195
2388547	Dichlobenil	57.4	54.8	P/P	25 - 113
2388547	Dicofol	90.3	69.3	P/P	38 - 247
2388547	Dieldrin	70.4	70.0	P/P	45 - 118
2388547	Endosulfan I	70.8	72.7	P/P	51 - 106
2388547	Endosulfan II	93.6	93.2	P/P	37 - 122
2388547	Endosulfan Sulfate	77.7	87.1	P/P	43 - 132
2388547	Endrin	73.5	77.0	P/P	29 - 101
2388547	Endrin Aldehyde	71.9	92.1	P/P	19 - 110
2388547	Endrin Ketone	87.2	92.3	P/P	60 - 140
2388547	Esfenvalerate	104	77.0	P/P	26 - 199
2388547	Ethalfluralin	66.4	56.3	P/P	45 - 99.0
2388547	Fenpropathrin	91.9	65.5	P/P	35 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426119

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388547	Gamma-BHC	107	95.8	P/P	63 - 128
2388547	Gamma-Chlordane	73.5	57.3	P/P	40 - 104
2388547	Heptachlor	63.8	58.1	P/P	36 - 97.0
2388547	Heptachlor Epoxide	65.6	29.7	P/F	49 - 184
2388547	Hexachlorobenzene	53.5	48.6	P/P	39 - 96.0
2388547	Kepone	115	97.5	P/P	10 - 217
2388547	Lambda-Cyhalothrin	95.1	76.1	P/P	21 - 193
2388547	Methoprene	67.8	55.9	P/P	20 - 106
2388547	Methoxychlor	75.0	55.6	P/P	53 - 118
2388547	MGK-264	47.7	30.7	P/F	40 - 118
2388547	Mirex	72.9	56.6	P/P	26 - 92.0
2388547	Oxychlordane	59.6	14.7	P/F	44 - 99.0
2388547	Permethrin	98.8	110	P/P	33 - 182
2388547	Phenothrin	79.3	96.7	P/P	10 - 129
2388547	Piperonyl Butoxide	115	120	P/P	10 - 211
2388547	Prallethrin	75.5	71.2	P/P	24 - 113
2388547	Tau-Fluvalinate	96.7	68.1	P/P	14 - 149
2388547	Tetramethrin	89.4	83.4	P/P	17 - 151
2388547	Trans-Nonachlor	58.2	68.0	P/P	42 - 102
2388547	Triclosan Methyl	66.9	71.3	P/P	48 - 108
2388547	Trifluralin	62.5	64.1	P/P	47 - 96.0

Reference Method: EPA 8270E
Batch ID: P426345

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388507	Aldrin	49.2	39.7	P/P	20 - 82.0
2388507	Alpha-BHC	82.0	71.3	P/P	71 - 109
2388507	Alpha-Chlordane	69.7	61.2	P/P	42 - 106
2388507	Beta-BHC	91.8	88.4	P/P	69 - 180
2388507	Beta-Cyfluthrin	75.2	57.0	P/P	18 - 175
2388507	Bifenthrin	55.0	43.6	P/P	21 - 128
2388507	Chlorothalonil	107	103	P/P	10 - 300
2388507	Cis-Nonachlor	66.7	55.9	P/P	34 - 106
2388507	Cypermethrin	68.3	54.7	P/P	22 - 158
2388507	Dacthal	88.8	86.6	P/P	54 - 116
2388507	DDD-p,p'	65.2	60.1	P/P	34 - 107
2388507	DDE-p,p'	67.2	59.6	P/P	33 - 110
2388507	DDT-p,p'	64.6	57.5	P/P	50 - 122
2388507	Delta-BHC	105	98.5	P/P	77 - 193
2388507	Deltamethrin	88.3	70.1	P/P	10 - 195
2388507	Dichlobenil	66.6	49.0	P/P	25 - 113
2388507	Dicofol	71.7	65.0	P/P	38 - 247
2388507	Dieldrin	75.9	70.7	P/P	45 - 118
2388507	Endosulfan I	77.7	72.8	P/P	51 - 106
2388507	Endosulfan II	82.1	78.3	P/P	37 - 122
2388507	Endosulfan Sulfate	92.8	85.7	P/P	43 - 132
2388507	Endrin	79.8	76.2	P/P	29 - 101
2388507	Endrin Aldehyde	83.3	73.5	P/P	19 - 110
2388507	Endrin Ketone	62.5	59.6	P/F	60 - 140
2388507	Esfenvalerate	72.0	58.1	P/P	26 - 199
2388507	Ethalfluralin	66.9	62.4	P/P	45 - 99.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426345

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388507	Fenpropathrin	69.1	57.3	P/P	35 - 120
2388507	Gamma-BHC	89.0	82.5	P/P	63 - 128
2388507	Gamma-Chlordane	64.2	54.9	P/P	40 - 104
2388507	Heptachlor	58.5	48.3	P/P	36 - 97.0
2388507	Heptachlor Epoxide	75.7	68.4	P/P	49 - 184
2388507	Hexachlorobenzene	53.1	41.4	P/P	39 - 96.0
2388507	Kepone	115	90.8	P/P	10 - 217
2388507	Lambda-Cyhalothrin	36.8	28.4	P/P	21 - 193
2388507	Methoprene	59.8	48.9	P/P	20 - 106
2388507	Methoxychlor	79.0	73.7	P/P	53 - 118
2388507	MGK-264	80.6	76.1	P/P	40 - 118
2388507	Mirex	52.6	41.4	P/P	26 - 92.0
2388507	Oxychlordane	68.7	59.2	P/P	44 - 99.0
2388507	Permethrin	42.7	31.4	P/F	33 - 182
2388507	Phenothrin	60.4	45.5	P/P	10 - 129
2388507	Piperonyl Butoxide	136	136	P/P	10 - 211
2388507	Prallethrin	71.3	68.5	P/P	24 - 113
2388507	Tau-Fluvalinate	69.2	54.6	P/P	14 - 149
2388507	Tetramethrin	111	102	P/P	17 - 151
2388507	Trans-Nonachlor	65.8	55.3	P/P	42 - 102
2388507	Triclosan Methyl	78.1	73.1	P/P	48 - 108
2388507	Trifluralin	65.4	56.3	P/P	47 - 96.0
2388532	PCB-1016	81.4	74.1	P/P	46 - 111
2388532	PCB-1260	79.6	73.7	P/P	45 - 114

Reference Method: EPA 8276
Batch ID: P426119

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388525	Chlordane	59.1	60.6	P/P	53 - 126
2388525	Toxaphene	51.8	57.4	F/P	56 - 211

Reference Method: EPA 8276
Batch ID: P426345

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388532	Chlordane	83.9	85.1	P/P	53 - 126
2388532	Toxaphene	77.9	80.8	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P425953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386928	3-Hydroxycarbofuran	56.8	65.6	P/P	40 - 150
2386928	Aldicarb	40.4	50.5	P/P	30 - 150
2386928	Aldicarb Sulfone	82.8	88.9	P/P	40 - 150
2386928	Aldicarb Sulfoxide	34.7	39.4	F/F	40 - 150
2386928	Carbaryl	43.6	44.2	P/P	40 - 150
2386928	Carbofuran	38.3	39.8	F/F	40 - 150
2386928	Methiocarb	58.1	53.2	P/P	40 - 150
2386928	Methomyl	42.2	45.5	P/P	40 - 150
2386928	Oxamyl	79.9	77.6	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P425953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386928	Propoxur	34.6	38.3	F/F	40 - 150

Reference Method: EPA 8321B
Batch ID: P425983

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388155	Acesulfame K	150	151	F/F	40 - 150
2388155	Endothall	110	113	P/P	40 - 150
2388155	Glufosinate	232	184	F/F	40 - 150
2388155	Sucralose	108	113	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388286	2,4-D	105	109	P/P	40 - 150
2388286	2,4,5-T	107	116	P/P	40 - 150
2388286	Acetaminophen	108	117	P/P	30 - 150
2388286	Acetamiprid	56.4	56.6	P/P	40 - 150
2388286	Afidopyropen	55.6	54.8	P/P	30 - 150
2388286	Benzovindiflupyr	89.9	86.3	P/P	40 - 150
2388286	Carbamazepine	51.0	53.1	P/P	40 - 150
2388286	Clothianidin	69.9	77.7	P/P	40 - 150
2388286	Dinotefuran	65.0	81.5	P/P	40 - 150
2388286	Diuron	44.4	47.9	P/P	40 - 150
2388286	Fenuron	41.2	53.6	P/P	40 - 150
2388286	Fluridone	81.3	72.1	P/P	40 - 150
2388286	Hydrocodone	59.6	67.6	P/P	40 - 150
2388286	Ibuprofen	74.4	69.7	P/P	40 - 150
2388286	Imidacloprid	96.2	109	P/P	40 - 150
2388286	Linuron	60.4	71.2	P/P	40 - 150
2388286	Mandestrobin	80.4	74.8	P/P	40 - 150
2388286	MCPP	96.0	105	P/P	40 - 150
2388286	Naproxen	59.1	69.4	P/P	40 - 150
2388286	Primidone	70.3	93.4	P/P	40 - 150
2388286	Pyraclostrobin	73.4	78.3	P/P	40 - 150
2388286	Silvex	115	108	P/P	40 - 150
2388286	Thiamethoxam	72.0	84.0	P/P	40 - 150
2388286	Tolfenpyrad	54.2	53.1	P/P	30 - 150
2388286	Triclopyr	108	100	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388382	2,4-D	103	108	P/P	40 - 150
2388382	2,4,5-T	96.2	98.7	P/P	40 - 150
2388382	Acetaminophen	96.8	109	P/P	30 - 150
2388382	Acetamiprid	79.0	69.2	P/P	40 - 150
2388382	Afidopyropen	55.5	52.6	P/P	30 - 150
2388382	Bentazon	90.4	93.0	P/P	30 - 150
2388382	Benzovindiflupyr	77.8	88.0	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P426090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388382	Carbamazepine	64.8	72.3	P/P	40 - 150
2388382	Clothianidin	67.5	65.4	P/P	40 - 150
2388382	Dinotefuran	102	107	P/P	40 - 150
2388382	Diuron	47.5	51.0	P/P	40 - 150
2388382	Fenuron	53.0	52.8	P/P	40 - 150
2388382	Fluridone	65.6	63.1	P/P	40 - 150
2388382	Hydrocodone	71.6	71.9	P/P	40 - 150
2388382	Ibuprofen	79.0	86.7	P/P	40 - 150
2388382	Imazapyr	90.7	96.1	P/P	40 - 150
2388382	Linuron	61.5	68.4	P/P	40 - 150
2388382	Mandestrobin	87.5	90.9	P/P	40 - 150
2388382	MCPP	91.6	97.3	P/P	40 - 150
2388382	Naproxen	111	101	P/P	40 - 150
2388382	Primidone	75.1	81.6	P/P	40 - 150
2388382	Pyraclostrobin	80.7	80.8	P/P	40 - 150
2388382	Silvex	111	113	P/P	40 - 150
2388382	Thiamethoxam	82.2	78.2	P/P	40 - 150
2388382	Tolfenpyrad	55.8	53.8	P/P	30 - 150
2388382	Triclopyr	104	116	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P426298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2388336	Fluoride	99.2	98.6	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2387936	Organic Carbon	94.6	96.8	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P426020

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388336	Color (true)	0.455	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388304	Turbidity	0.422	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426648

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388411	Chloride	0.325	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388411	Sulfate	0.532	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426419

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388386	Ammonia-N	0.983	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426331

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388385	Kjeldahl Nitrogen	2.31	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426153

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388356	NO2NO3-N	0.881	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426132

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388410	Total-P	0.831	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P426002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388390	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	0.420	Spike	P	0 - 37
2388390	Acetochlor	9.73	Spike	P	0 - 28
2388390	Alachlor	8.61	Spike	P	0 - 30
2388390	Ametryn	5.76	Spike	P	0 - 32
2388390	Atrazine	3.43	Spike	P	0 - 41
2388390	Atrazine Desethyl	6.34	Spike	P	0 - 36
2388390	Avobenzone	4.10	Spike	P	0 - 36
2388390	Azinphos Methyl	9.05	Spike	P	0 - 75
2388390	Azoxystrobin	6.41	Spike	P	0 - 39
2388390	Bromacil	30.1	Spike	P	0 - 33
2388390	Butylate	7.34	Spike	P	0 - 44
2388390	Caffeine	7.75	Spike	P	0 - 74
2388390	Carbophenothion	9.91	Spike	P	0 - 25
2388390	Carfentrazone Ethyl	23.5	Spike	P	0 - 27
2388390	Chlorfenapyr	3.10	Spike	P	0 - 24
2388390	Chlorpyrifos Ethyl	25.2	Spike	P	0 - 26
2388390	Chlorpyrifos Methyl	5.30	Spike	P	0 - 26
2388390	Coumaphos	66.5	Spike	F	0 - 28
2388390	Cyanazine	22.9	Spike	P	0 - 48
2388390	Cyprodinil	15.0	Spike	P	0 - 29
2388390	Dechlorane Plus	12.6	Spike	P	0 - 30
2388390	Demeton	31.2	Spike	P	0 - 33
2388390	Diazinon	25.3	Spike	P	0 - 29
2388390	Difenoconazole	21.0	Spike	P	0 - 34
2388390	Dimethenamid	33.0	Spike	P	0 - 39
2388390	Dimethomorph	16.7	Spike	P	0 - 51
2388390	Disulfoton	18.1	Spike	P	0 - 30
2388390	Dithiopyr	16.9	Spike	P	0 - 26
2388390	EPTC	6.29	Spike	P	0 - 43
2388390	Ethion	15.2	Spike	P	0 - 79
2388390	Ethoprop	18.0	Spike	P	0 - 29
2388390	Etridiazole	31.3	Spike	P	0 - 33
2388390	Fenamiphos	0.879	Spike	P	0 - 40
2388390	Fenbuconazole	56.5	Spike	P	0 - 74
2388390	Fipronil	9.44	Spike	P	0 - 29
2388390	Fipronil Desulfinyl	30.7	Spike	P	0 - 32
2388390	Fipronil Sulfide	17.0	Spike	P	0 - 30
2388390	Fipronil Sulfone	183	Spike	F	0 - 33
2388390	Fluazifop-P-butyl	26.3	Spike	P	0 - 38
2388390	Fludioxonil	13.3	Spike	P	0 - 29
2388390	Flumioxazin	38.9	Spike	P	0 - 51
2388390	Flutolanil	9.55	Spike	P	0 - 25
2388390	Fluxapyroxad	10.8	Spike	P	0 - 45
2388390	Fonofos	25.0	Spike	P	0 - 27
2388390	Hexazinone	7.63	Spike	P	0 - 30
2388390	Imazalil	49.9	Spike	P	0 - 100
2388390	Iprodione	25.1	Spike	P	0 - 33
2388390	Loratadine	17.9	Spike	P	0 - 56
2388390	Malathion	25.9	Spike	P	0 - 37
2388390	Metalaxyl	4.63	Spike	P	0 - 40
2388390	Metolachlor	8.87	Spike	P	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P426002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388390	Metribuzin	2.68	Spike	P	0 - 45
2388390	Mevinphos	11.1	Spike	P	0 - 29
2388390	Molinate	7.64	Spike	P	0 - 33
2388390	Myclobutanil	25.2	Spike	P	0 - 26
2388390	Naled	34.1	Spike	P	0 - 37
2388390	Napropamide	43.0	Spike	P	0 - 44
2388390	Norflurazon	86.0	Spike	F	0 - 30
2388390	Octinoxate	1.72	Spike	P	0 - 45
2388390	Oxadiazon	4.81	Spike	P	0 - 28
2388390	Oxybenzone	2.79	Spike	P	0 - 46
2388390	Oxyfluorfen	13.8	Spike	P	0 - 28
2388390	Parathion Ethyl	3.04	Spike	P	0 - 31
2388390	Parathion Methyl	28.7	Spike	P	0 - 29
2388390	PBDE-47	10.3	Spike	P	0 - 36
2388390	PBDE-99	0.663	Spike	P	0 - 40
2388390	Pendimethalin	15.2	Spike	P	0 - 33
2388390	Phenytoin	82.9	Spike	P	0 - 100
2388390	Phorate	18.7	Spike	P	0 - 36
2388390	Prodiamine	34.9	Spike	P	0 - 71
2388390	Prometon	14.4	Spike	P	0 - 36
2388390	Prometryn	0.981	Spike	P	0 - 28
2388390	Pronamide	6.40	Spike	P	0 - 24
2388390	Propanil	20.2	Spike	P	0 - 28
2388390	Propargite	39.5	Spike	P	0 - 43
2388390	Propiconazole	98.7	Spike	F	0 - 33
2388390	Pyraflufen Ethyl	156	Spike	F	0 - 29
2388390	Pyridaben	28.5	Spike	P	0 - 30
2388390	Pyriproxyfen	7.45	Spike	P	0 - 79
2388390	Simazine	9.36	Spike	P	0 - 29
2388390	Stirophos	20.5	Spike	P	0 - 61
2388390	Sulfentrazone	1.62	Spike	P	0 - 33
2388390	Tebuconazole	52.2	Spike	P	0 - 69
2388390	Terbufos	0.567	Spike	P	0 - 29
2388390	Terbuthylazine	16.6	Spike	P	0 - 32
2388390	Thiobencarb	20.8	Spike	P	0 - 26
2388390	Tri-o-cresyl Phosphate	1.02	Spike	P	0 - 33
2388390	Triadimefon	1.90	Spike	P	0 - 28

Reference Method: EPA 8270E
Batch ID: P426119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388525	PCB-1016	15.5	Spike	P	0 - 32
2388525	PCB-1260	11.3	Spike	P	0 - 31
2388547	Aldrin	43.6	Spike	F	0 - 41
2388547	Alpha-BHC	1.04	Spike	P	0 - 25
2388547	Alpha-Chlordane	2.80	Spike	P	0 - 33
2388547	Beta-BHC	0.0785	Spike	P	0 - 36
2388547	Beta-Cyfluthrin	8.94	Spike	P	0 - 42
2388547	Bifenthrin	18.9	Spike	P	0 - 53

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P426119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388547	Chlorothalonil	118	Spike	F	0 - 71
2388547	Cis-Nonachlor	5.13	Spike	P	0 - 29
2388547	Cypermethrin	7.47	Spike	P	0 - 40
2388547	Dacthal	4.52	Spike	P	0 - 26
2388547	DDD-p,p'	11.8	Spike	P	0 - 39
2388547	DDE-p,p'	0.791	Spike	P	0 - 33
2388547	DDT-p,p'	13.5	Spike	P	0 - 40
2388547	Delta-BHC	5.11	Spike	P	0 - 37
2388547	Deltamethrin	40.3	Spike	P	0 - 100
2388547	Dichlobenil	4.66	Spike	P	0 - 40
2388547	Dicofol	26.3	Spike	P	0 - 31
2388547	Dieldrin	0.577	Spike	P	0 - 27
2388547	Endosulfan I	2.62	Spike	P	0 - 23
2388547	Endosulfan II	0.424	Spike	P	0 - 28
2388547	Endosulfan Sulfate	11.4	Spike	P	0 - 38
2388547	Endrin	4.67	Spike	P	0 - 63
2388547	Endrin Aldehyde	24.6	Spike	P	0 - 60
2388547	Endrin Ketone	5.70	Spike	P	0 - 37
2388547	Esfenvalerate	29.3	Spike	P	0 - 52
2388547	Ethalfluralin	16.3	Spike	P	0 - 23
2388547	Fenpropathrin	33.6	Spike	F	0 - 32
2388547	Gamma-BHC	11.4	Spike	P	0 - 17
2388547	Gamma-Chlordane	24.7	Spike	P	0 - 40
2388547	Heptachlor	9.29	Spike	P	0 - 29
2388547	Heptachlor Epoxide	75.4	Spike	F	0 - 25
2388547	Hexachlorobenzene	9.57	Spike	P	0 - 36
2388547	Kepone	16.7	Spike	P	0 - 93
2388547	Lambda-Cyhalothrin	22.1	Spike	P	0 - 55
2388547	Methoprene	19.2	Spike	P	0 - 53
2388547	Methoxychlor	29.7	Spike	F	0 - 29
2388547	MGK-264	43.2	Spike	F	0 - 35
2388547	Mirex	25.2	Spike	P	0 - 46
2388547	Oxychlordane	121	Spike	F	0 - 29
2388547	Permethrin	10.7	Spike	P	0 - 44
2388547	Phenothrin	19.7	Spike	P	0 - 56
2388547	Piperonyl Butoxide	4.02	Spike	P	0 - 100
2388547	Prallethrin	5.93	Spike	P	0 - 42
2388547	Tau-Fluvalinate	34.7	Spike	P	0 - 54
2388547	Tetramethrin	6.86	Spike	P	0 - 51
2388547	Trans-Nonachlor	15.5	Spike	P	0 - 37
2388547	Triclosan Methyl	6.37	Spike	P	0 - 31
2388547	Trifluralin	2.39	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P426345

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388507	Aldrin	21.3	Spike	P	0 - 41
2388507	Alpha-BHC	14.0	Spike	P	0 - 25
2388507	Alpha-Chlordane	13.0	Spike	P	0 - 33

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P426345

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388507	Beta-BHC	3.76	Spike	P	0 - 36
2388507	Beta-Cyfluthrin	27.5	Spike	P	0 - 42
2388507	Bifenthrin	23.1	Spike	P	0 - 53
2388507	Chlorothalonil	3.57	Spike	P	0 - 71
2388507	Cis-Nonachlor	17.7	Spike	P	0 - 29
2388507	Cypermethrin	22.0	Spike	P	0 - 40
2388507	Dacthal	2.49	Spike	P	0 - 26
2388507	DDD-p,p'	8.06	Spike	P	0 - 39
2388507	DDE-p,p'	12.0	Spike	P	0 - 33
2388507	DDT-p,p'	11.6	Spike	P	0 - 40
2388507	Delta-BHC	5.90	Spike	P	0 - 37
2388507	Deltamethrin	23.0	Spike	P	0 - 100
2388507	Dichlobenil	30.4	Spike	P	0 - 40
2388507	Dicofol	9.82	Spike	P	0 - 31
2388507	Dieldrin	7.04	Spike	P	0 - 27
2388507	Endosulfan I	6.46	Spike	P	0 - 23
2388507	Endosulfan II	4.72	Spike	P	0 - 28
2388507	Endosulfan Sulfate	7.92	Spike	P	0 - 38
2388507	Endrin	4.58	Spike	P	0 - 63
2388507	Endrin Aldehyde	12.5	Spike	P	0 - 60
2388507	Endrin Ketone	4.77	Spike	P	0 - 37
2388507	Esfenvalerate	21.4	Spike	P	0 - 52
2388507	Ethalfluralin	7.02	Spike	P	0 - 23
2388507	Fenpropathrin	18.8	Spike	P	0 - 32
2388507	Gamma-BHC	7.60	Spike	P	0 - 17
2388507	Gamma-Chlordane	15.6	Spike	P	0 - 40
2388507	Heptachlor	19.1	Spike	P	0 - 29
2388507	Heptachlor Epoxide	10.1	Spike	P	0 - 25
2388507	Hexachlorobenzene	24.6	Spike	P	0 - 36
2388507	Kepone	23.8	Spike	P	0 - 93
2388507	Lambda-Cyhalothrin	25.7	Spike	P	0 - 55
2388507	Methoprene	20.1	Spike	P	0 - 53
2388507	Methoxychlor	6.91	Spike	P	0 - 29
2388507	MGK-264	5.83	Spike	P	0 - 35
2388507	Mirex	23.7	Spike	P	0 - 46
2388507	Oxychlordane	14.9	Spike	P	0 - 29
2388507	Permethrin	30.5	Spike	P	0 - 44
2388507	Phenothrin	28.2	Spike	P	0 - 56
2388507	Piperonyl Butoxide	0.684	Spike	P	0 - 100
2388507	Prallethrin	4.05	Spike	P	0 - 42
2388507	Tau-Fluvalinate	23.6	Spike	P	0 - 54
2388507	Tetramethrin	8.18	Spike	P	0 - 51
2388507	Trans-Nonachlor	17.2	Spike	P	0 - 37
2388507	Triclosan Methyl	6.61	Spike	P	0 - 31
2388507	Trifluralin	14.8	Spike	P	0 - 30
2388532	PCB-1016	9.44	Spike	P	0 - 32
2388532	PCB-1260	7.78	Spike	P	0 - 31

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P426119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388525	Chlordane	2.48	Spike	P	0 - 25
2388525	Toxaphene	10.2	Spike	P	0 - 26

Reference Method: EPA 8276
Batch ID: P426345

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388532	Chlordane	1.36	Spike	P	0 - 25
2388532	Toxaphene	3.61	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P425953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386928	3-Hydroxycarbofuran	14.4	Spike	P	0 - 30
2386928	Aldicarb	22.2	Spike	P	0 - 30
2386928	Aldicarb Sulfone	7.07	Spike	P	0 - 30
2386928	Aldicarb Sulfoxide	12.8	Spike	P	0 - 30
2386928	Carbaryl	1.43	Spike	P	0 - 30
2386928	Carbofuran	3.82	Spike	P	0 - 30
2386928	Methiocarb	8.75	Spike	P	0 - 30
2386928	Methomyl	5.72	Spike	P	0 - 30
2386928	Oxamyl	2.83	Spike	P	0 - 30
2386928	Propoxur	10.2	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P425983

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388155	Acesulfame K	0.853	Spike	P	0 - 30
2388155	AMPA	2.29	Spike	P	0 - 30
2388155	Endothall	2.28	Spike	P	0 - 30
2388155	Glufosinate	23.4	Spike	P	0 - 30
2388155	Glyphosate	1.90	Spike	P	0 - 30
2388155	Sucralose	2.95	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P426017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388286	2,4-D	4.37	Spike	P	0 - 30
2388286	2,4,5-T	8.26	Spike	P	0 - 30
2388286	Acetaminophen	7.69	Spike	P	0 - 30
2388286	Acetamiprid	0.293	Spike	P	0 - 30
2388286	Afidopyropen	1.52	Spike	P	0 - 30
2388286	Bentazon	15.6	Spike	P	0 - 30
2388286	Benzovindiflupyr	4.07	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P426017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388286	Carbamazepine	4.04	Spike	P	0 - 30
2388286	Clothianidin	10.6	Spike	P	0 - 30
2388286	Dinotefuran	22.5	Spike	P	0 - 30
2388286	Diuron	7.58	Spike	P	0 - 30
2388286	Fenuron	26.3	Spike	P	0 - 30
2388286	Fluridone	12.0	Spike	P	0 - 30
2388286	Hydrocodone	12.7	Spike	P	0 - 30
2388286	Ibuprofen	6.54	Spike	P	0 - 30
2388286	Imazapyr	2.39	Spike	P	0 - 30
2388286	Imidacloprid	12.7	Spike	P	0 - 30
2388286	Linuron	16.4	Spike	P	0 - 30
2388286	Mandestrobin	7.26	Spike	P	0 - 30
2388286	MCPP	8.96	Spike	P	0 - 30
2388286	Naproxen	16.2	Spike	P	0 - 30
2388286	Primidone	28.2	Spike	P	0 - 30
2388286	Pyraclostrobin	6.49	Spike	P	0 - 30
2388286	Silvex	5.67	Spike	P	0 - 30
2388286	Thiamethoxam	15.3	Spike	P	0 - 30
2388286	Tolfenpyrad	1.97	Spike	P	0 - 30
2388286	Triclopyr	7.14	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P426090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388382	2,4-D	4.39	Spike	P	0 - 30
2388382	2,4,5-T	2.53	Spike	P	0 - 30
2388382	Acetaminophen	11.7	Spike	P	0 - 30
2388382	Acetamiprid	13.3	Spike	P	0 - 30
2388382	Afidopyropen	5.46	Spike	P	0 - 30
2388382	Bentazon	2.83	Spike	P	0 - 30
2388382	Benzovindiflupyr	12.3	Spike	P	0 - 30
2388382	Carbamazepine	10.8	Spike	P	0 - 30
2388382	Clothianidin	2.18	Spike	P	0 - 30
2388382	Dinotefuran	4.68	Spike	P	0 - 30
2388382	Diuron	6.48	Spike	P	0 - 30
2388382	Fenuron	0.337	Spike	P	0 - 30
2388382	Fluridone	3.86	Spike	P	0 - 30
2388382	Hydrocodone	0.472	Spike	P	0 - 30
2388382	Ibuprofen	9.21	Spike	P	0 - 30
2388382	Imazapyr	5.34	Spike	P	0 - 30
2388382	Imidacloprid	4.45	Spike	P	0 - 30
2388382	Linuron	10.5	Spike	P	0 - 30
2388382	Mandestrobin	3.84	Spike	P	0 - 30
2388382	MCPP	6.09	Spike	P	0 - 30
2388382	Naproxen	9.58	Spike	P	0 - 30
2388382	Primidone	8.35	Spike	P	0 - 30
2388382	Pyraclostrobin	0.147	Spike	P	0 - 30
2388382	Silvex	1.65	Spike	P	0 - 30
2388382	Thiamethoxam	3.28	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P426090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388382	Tolfenpyrad	3.77	Spike	P	0 - 30
2388382	Triclopyr	10.7	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P426294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388336	Total Alkalinity	0.540	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P426485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2387726	TDS	4.89	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P426298

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2388336	Fluoride	0.479	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P426274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2387936	Organic Carbon	2.10	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2388378
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	40.0	P	30 - 160

Lab Sample ID: 2388379
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	92.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	119	P	30 - 160
EPA 8321B	Carbamazepine-d10	50.0	P	30 - 160
EPA 8321B	Diuron-d6	39.2	P	30 - 160
EPA 8321B	Endothall-d6	127	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.2	P	30 - 160
EPA 8321B	Primidone-d5	76.6	P	30 - 160
EPA 8321B	Sucralose-d6	134	P	30 - 160

Lab Sample ID: 2388380
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	38.8	P	30 - 160

Lab Sample ID: 2388381
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	51.5	P	30 - 160
EPA 8321B	Diuron-d6	41.3	P	30 - 160
EPA 8321B	Endothall-d6	127	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	119	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.1	P	30 - 160
EPA 8321B	Primidone-d5	65.1	P	30 - 160
EPA 8321B	Sucralose-d6	127	P	30 - 160

Lab Sample ID: 2388382
Field Sample ID: G4SE0155

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	70.6	P	30 - 160
EPA 8321B	Diuron-d6	55.5	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.1	P	30 - 160
EPA 8321B	Primidone-d5	80.1	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2388389
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	61.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	58.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	48.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	54.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	36.6	P	30 - 101
EPA 8276	PCNB	65.8	P	48 - 121

Lab Sample ID: 2388390
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	72.7	P	20 - 200
EPA 8270E	Simazine-d10	101	P	62 - 142
EPA 8270E	Terbufos-d10	84.9	P	58 - 132
EPA 8270E	Terphenyl-d14	82.5	P	52 - 137

Lab Sample ID: 2388391
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	84.1	P	29 - 130
EPA 8270E	Decachlorobiphenyl	97.6	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	57.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	62.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	60.7	P	30 - 101
EPA 8276	PCNB	80.1	P	48 - 121

Lab Sample ID: 2388392
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	44.4	P	20 - 200
EPA 8270E	Simazine-d10	92.3	P	62 - 142
EPA 8270E	Terbufos-d10	93.4	P	58 - 132
EPA 8270E	Terphenyl-d14	75.0	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A117519
Included Lab Sample IDs: 2388355, 2388357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	90 - 110
Color (true)	101	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A117527
Included Lab Sample IDs: 2388355, 2388357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A117565
Included Lab Sample IDs: 2388356, 2388358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	98.0	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A117585
Included Lab Sample IDs: 2388379, 2388381, 2388382

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	115	P/P	60 - 160
AMPA	115	107	P/P	60 - 160
Endothall	111	116	P/P	60 - 160
Endothall	116	111	P/P	60 - 160
Glufosinate	111	91.1	P/P	60 - 160
Glufosinate	91.9	111	P/P	60 - 160
Glyphosate	103	111	P/P	60 - 160
Glyphosate	111	93.7	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A117586
Included Lab Sample IDs: 2388379, 2388381, 2388382

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	124	130	P/P	60 - 160
Acesulfame K	130	125	P/P	60 - 160
Sucralose	116	119	P/P	60 - 160
Sucralose	119	119	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A117588
Included Lab Sample IDs: 2388356

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A117610
Included Lab Sample IDs: 2388358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	101	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A117617
Included Lab Sample IDs: 2388356, 2388358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	97.2	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A117622
Included Lab Sample IDs: 2388355, 2388357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	96.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A117622
Included Lab Sample IDs: 2388355, 2388357

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

Reference Method: EPA 8321B
Run ID: A117648
Included Lab Sample IDs: 2388379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.0	94.4	P/P	50 - 150
2,4,5-T	106	109	P/P	50 - 150
3-Hydroxycarbofuran	101	106	P/P	60 - 150
Acetaminophen	112	120	P/P	60 - 160
Acetamiprid	117	114	P/P	50 - 150
Afidopyropen	98.9	89.4	P/P	50 - 150
Aldicarb	119	111	P/P	60 - 150
Aldicarb Sulfone	104	111	P/P	50 - 150
Aldicarb Sulfoxide	113	117	P/P	50 - 150
Bentazon	128	113	P/P	50 - 160
Benzovindiflupyr	108	103	P/P	50 - 150
Carbamazepine	108	111	P/P	60 - 150
Carbaryl	109	114	P/P	60 - 150
Carbofuran	117	113	P/P	50 - 150
Clothianidin	108	109	P/P	60 - 150
Dinotefuran	111	117	P/P	50 - 150
Diuron	107	119	P/P	60 - 160
Fenuron	113	110	P/P	60 - 150
Fluridone	109	110	P/P	60 - 160
Hydrocodone	110	108	P/P	60 - 150
Ibuprofen	103	93.2	P/P	50 - 160
Imazapyr	98.9	105	P/P	50 - 150
Imidacloprid	105	105	P/P	60 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A117648
Included Lab Sample IDs: 2388379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Linuron	105	104	P/P	60 - 150
Mandestrobin	104	107	P/P	50 - 150
MCPP	94.7	102	P/P	50 - 150
Methiocarb	119	105	P/P	50 - 150
Methomyl	105	110	P/P	50 - 150
Naproxen	141	128	P/P	50 - 160
Oxamyl	109	114	P/P	50 - 150
Primidone	104	111	P/P	60 - 150
Propoxur	114	112	P/P	50 - 150
Pyraclostrobin	108	106	P/P	60 - 150
Silvex	101	107	P/P	50 - 150
Thiamethoxam	117	122	P/P	50 - 150
Tolfenpyrad	108	105	P/P	60 - 150
Triclopyr	108	94.3	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A117655
Included Lab Sample IDs: 2388381, 2388382

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	83.3	118	P/P	50 - 150
2,4,5-T	93.2	99.9	P/P	50 - 150
Acetaminophen	107	103	P/P	60 - 160
Acetamiprid	112	77.9	P/P	50 - 150
Afidopyropen	97.6	107	P/P	50 - 150
Bentazon	118	127	P/P	50 - 160
Benzovindiflupyr	110	106	P/P	50 - 150
Carbamazepine	118	119	P/P	60 - 150
Clothianidin	91.7	105	P/P	60 - 150
Dinotefuran	116	115	P/P	50 - 150
Diuron	110	108	P/P	60 - 160
Fenuron	93.7	108	P/P	60 - 150
Fluridone	100	107	P/P	60 - 160
Hydrocodone	106	124	P/P	60 - 150
Ibuprofen	94.8	125	P/P	50 - 160
Imazapyr	95.5	101	P/P	50 - 150
Imidacloprid	109	78.6	P/P	60 - 150
Linuron	94.5	91.9	P/P	60 - 150
Mandestrobin	119	116	P/P	50 - 150
MCPP	105	102	P/P	50 - 150
Naproxen	144	106	P/P	50 - 160
Primidone	93.8	103	P/P	60 - 150
Pyraclostrobin	108	106	P/P	60 - 150
Silvex	101	95.8	P/P	50 - 150
Thiamethoxam	103	115	P/P	50 - 150
Tolfenpyrad	101	99.9	P/P	60 - 150
Triclopyr	92.9	101	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A117661
Included Lab Sample IDs: 2388390, 2388392

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.5		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane Plus	96.5		P	80 - 120
Octinoxate	91.4		P	80 - 120
Oxybenzone	92.0		P	80 - 120
PBDE-47	96.1		P	80 - 120
PBDE-99	98.7		P	80 - 120
Tri-o-cresyl Phosphate	92.0		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A117685
Included Lab Sample IDs: 2388356, 2388358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	96.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A117687
Included Lab Sample IDs: 2388355, 2388357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.9	96.2	P/P	90 - 110
Sulfate	98.4	99.0	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A117725
Included Lab Sample IDs: 2388389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.2		P	80 - 120
Toxaphene	96.4		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117726
Included Lab Sample IDs: 2388389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.0		P	80 - 120
Alpha-BHC	96.3		P	80 - 120
Alpha-Chlordane	97.3		P	80 - 120
Beta-BHC	105		P	80 - 120
Beta-Cyfluthrin	99.3		P	80 - 120
Bifenthrin	97.2		P	80 - 120
Chlorothalonil	105		P	80 - 120
Cis-Nonachlor	100		P	80 - 120
Cypermethrin	104		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	97.5		P	80 - 120
DDT-p,p'	99.1		P	80 - 120
Delta-BHC	104		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A117726
Included Lab Sample IDs: 2388389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Deltamethrin	98.9		P	80 - 120
Dichlobenil	97.9		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	95.5		P	80 - 120
Endosulfan I	98.3		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	99.2		P	80 - 120
Endrin Ketone	112		P	80 - 120
Esfenvalerate	100		P	80 - 120
Ethalfluralin	102		P	80 - 120
Fenpropathrin	100		P	80 - 120
Gamma-BHC	98.4		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	97.2		P	80 - 120
Kepone	90.7		P	80 - 120
Lambda-Cyhalothrin	100		P	80 - 120
Methoprene	99.3		P	80 - 120
Methoxychlor	97.1		P	80 - 120
MGK-264	99.8		P	80 - 120
Mirex	97.7		P	80 - 120
Oxychlordane	99.4		P	80 - 120
Permethrin	96.2		P	80 - 120
Phenothrin	94.9		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	98.2		P	80 - 120
Trifluralin	98.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117729
Included Lab Sample IDs: 2388391

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.2		P	80 - 120
PCB-1260	98.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117731
Included Lab Sample IDs: 2388391

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.4		P	80 - 120
Alpha-BHC	110		P	80 - 120
Alpha-Chlordane	123*		F	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A117731
Included Lab Sample IDs: 2388391

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	105		P	80 - 120
Beta-Cyfluthrin	93.7		P	80 - 120
Bifenthrin	117		P	80 - 120
Chlorothalonil	84.7		P	80 - 120
Cis-Nonachlor	99.1		P	80 - 120
Cypermethrin	96.7		P	80 - 120
Dacthal	97.1		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	88.0		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	102		P	80 - 120
Deltamethrin	99.4		P	80 - 120
Dichlobenil	111		P	80 - 120
Dicofol	109		P	80 - 120
Dieldrin	86.0		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	89.1		P	80 - 120
Endosulfan Sulfate	83.6		P	80 - 120
Endrin	83.9		P	80 - 120
Endrin Aldehyde	93.9		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	92.5		P	80 - 120
Ethalfluralin	97.7		P	80 - 120
Fenpropathrin	111		P	80 - 120
Gamma-BHC	112		P	80 - 120
Gamma-Chlordane	89.4		P	80 - 120
Heptachlor	89.5		P	80 - 120
Heptachlor Epoxide	90.5		P	80 - 120
Hexachlorobenzene	84.1		P	80 - 120
Kepone	112		P	80 - 120
Lambda-Cyhalothrin	98.8		P	80 - 120
Methoprene	91.5		P	80 - 120
Methoxychlor	111		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	107		P	80 - 120
Oxychlordane	90.0		P	80 - 120
Permethrin	108		P	80 - 120
Phenothrin	115		P	80 - 120
Piperonyl Butoxide	93.6		P	80 - 120
Prallethrin	91.7		P	80 - 120
Tau-Fluvalinate	95.0		P	80 - 120
Tetramethrin	117		P	80 - 120
Trans-Nonachlor	98.4		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	90.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117752
Included Lab Sample IDs: 2388390, 2388392

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A117752
Included Lab Sample IDs: 2388390, 2388392

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	90.8		P	80 - 120
Ametryn	119		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	80.2		P	80 - 120
Azinphos Methyl	89.0		P	80 - 120
Azoxystrobin	95.8		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	85.7		P	80 - 120
Caffeine	98.7		P	80 - 120
Carbophenothion	120		P	80 - 120
Carfentrazone Ethyl	110		P	80 - 120
Chlorfenapyr	97.7		P	80 - 120
Chlorpyrifos Ethyl	110		P	80 - 120
Chlorpyrifos Methyl	106		P	80 - 120
Coumaphos	111		P	80 - 120
Cyanazine	98.0		P	80 - 120
Cyprodinil	114		P	80 - 120
Demeton	99.5		P	80 - 120
Diazinon	77.3*		F	80 - 120
Difenoconazole	111		P	80 - 120
Dimethenamid	109		P	80 - 120
Dimethomorph	117		P	80 - 120
Disulfoton	90.6		P	80 - 120
Dithiopyr	116		P	80 - 120
EPTC	101		P	80 - 120
Ethion	110		P	80 - 120
Ethoprop	92.5		P	80 - 120
Etridiazole	104		P	80 - 120
Fenamiphos	89.0		P	80 - 120
Fenbuconazole	118		P	80 - 120
Fipronil	108		P	80 - 120
Fipronil Desulfinyl	108		P	80 - 120
Fipronil Sulfide	112		P	80 - 120
Fipronil Sulfone	112		P	80 - 120
Fluazifop-P-butyl	108		P	80 - 120
Fludioxonil	103		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	87.8		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	87.4		P	80 - 120
Hexazinone	95.4		P	80 - 120
Imazalil	104		P	80 - 120
Iprodione	102		P	80 - 120
Loratadine	119		P	80 - 120
Malathion	99.1		P	80 - 120
Metalaxyl	118		P	80 - 120
Metolachlor	96.5		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	88.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A117752
Included Lab Sample IDs: 2388390, 2388392

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	101		P	80 - 120
Naled	88.9		P	80 - 120
Napropamide	93.5		P	80 - 120
Norflurazon	111		P	80 - 120
Oxadiazon	93.2		P	80 - 120
Oxyfluorfen	108		P	80 - 120
Parathion Ethyl	89.8		P	80 - 120
Parathion Methyl	93.2		P	80 - 120
Pendimethalin	93.5		P	80 - 120
Phenytoin	109		P	80 - 120
Phorate	94.5		P	80 - 120
Prodiamine	95.5		P	80 - 120
Prometon	111		P	80 - 120
Prometryn	118		P	80 - 120
Pronamide	84.9		P	80 - 120
Propanil	92.7		P	80 - 120
Propargite	94.5		P	80 - 120
Propiconazole	105		P	80 - 120
Pyraflufen Ethyl	117		P	80 - 120
Pyridaben	120		P	80 - 120
Pyriproxyfen	88.3		P	80 - 120
Simazine	92.2		P	80 - 120
Stirophos	97.0		P	80 - 120
Sulfentrazone	114		P	80 - 120
Tebuconazole	93.7		P	80 - 120
Terbufos	81.5		P	80 - 120
Terbuthylazine	96.2		P	80 - 120
Thiobencarb	88.2		P	80 - 120
Triadimefon	111		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117754
Included Lab Sample IDs: 2388389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	104		P	80 - 120
PCB-1260	97.2		P	80 - 120

Reference Method: EPA 8276
Run ID: A117774
Included Lab Sample IDs: 2388391

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.5		P	80 - 120
Toxaphene	103		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117796
Included Lab Sample IDs: 2388356, 2388358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117796
Included Lab Sample IDs: 2388356, 2388358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.7	105	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A117815
Included Lab Sample IDs: 2388390

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	108		P	80 - 120
Ametryn	119		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	114		P	80 - 120
Cyprodinil	119		P	80 - 120
Diazinon	97.2		P	80 - 120
Dithiopyr	103		P	80 - 120
Ethion	100		P	80 - 120
Fenbuconazole	95.1		P	80 - 120
Fipronil	100		P	80 - 120
Fipronil Desulfinyl	96.7		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	107		P	80 - 120
Flutolanil	102		P	80 - 120
Fonofos	99.3		P	80 - 120
Iprodione	91.4		P	80 - 120
Metalaxyl	111		P	80 - 120
Metolachlor	96.6		P	80 - 120
Myclobutanil	112		P	80 - 120
Oxadiazon	110		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	104		P	80 - 120
Parathion Methyl	113		P	80 - 120
Prodiamine	118		P	80 - 120
Prometryn	114		P	80 - 120
Pronamide	99.4		P	80 - 120
Pyridaben	94.6		P	80 - 120
Sulfentrazone	95.5		P	80 - 120
Tebuconazole	81.0		P	80 - 120
Terbufos	99.0		P	80 - 120
Thiobencarb	99.3		P	80 - 120
Triadimefon	90.3		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117830
Included Lab Sample IDs: 2388392

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexazinone	103		P	80 - 120

Quality Assurance Report
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* 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
DEP SOP: NU-094-1	Color (true)	101				0.455	
EPA 180.1 Rev. 2.0	Turbidity	101				0.422	
EPA 300.0 Rev. 2.1	Chloride	97.0	96.4	97.2		0.325	
	Sulfate	101	100	101		0.532	
EPA 350.1 Rev. 2.0	Ammonia-N	99.4	99.0	97.4			0.983
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.5	91.9	95.5			2.31
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	97.1	98.1			0.881
EPA 365.1 Rev. 2.0	Total-P	100	98.9	99.7			0.831
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	87.3	45.4	45.6			0.420
	Acetochlor	92.3	90.8	82.4			9.73
	Alachlor	76.7	98.3	107			8.61
	Aldrin	57.3	54.7	35.1			43.6
	Aldrin	46.1	49.2	39.7			21.3
	Alpha-BHC	94.7	93.6	92.6			1.04
	Alpha-BHC	88.7	82.0	71.3			14.0
	Alpha-Chlordane	62.5	81.3	83.6			2.80
	Alpha-Chlordane	68.0	69.7	61.2			13.0
	Ametryn	86.0	133	121			5.76
	Atrazine	117	85.9	74.7			3.43
	Atrazine Desethyl	75.9	83.2	78.1			6.34
	Avobenzone	102	61.4	59.0			4.10
	Azinphos Methyl	128	96.4	88.0			9.05
	Azoxystrobin	164	111	98.3			6.41
	Beta-BHC	79.0	97.6	97.5			0.0785
	Beta-BHC	93.3	91.8	88.4			3.76
	Beta-Cyfluthrin	73.5	99.8	91.3			8.94
	Beta-Cyfluthrin	58.0	75.2	57.0			27.5
	Bifenthrin	47.6	55.6	46.0			18.9
	Bifenthrin	35.8	55.0	43.6			23.1
	Bromacil	82.8	50.4	68.3			30.1
	Butylate	75.9	57.7	62.0			7.34
	Caffeine	95.5	67.1	62.1			7.75
	Carbophenothion	87.6	97.7	88.4			9.91
	Carfentrazone Ethyl	65.0	84.5	66.8			23.5
	Chlorfenapyr	89.1	83.0	80.5			3.10
	Chlorothalonil	68.6	21.6	5.59			118
	Chlorothalonil	107	107	103			3.57
	Chlorpyrifos Ethyl	95.6	68.8	88.7			25.2
	Chlorpyrifos Methyl	81.1	75.2	79.3			5.30
	Cis-Nonachlor	86.5	60.8	64.0			5.13
	Cis-Nonachlor	64.8	66.7	55.9			17.7
	Coumaphos	75.0	27.3	13.7			66.5
	Cyanazine	133	88.5	111			22.9
	Cypermethrin	73.8	90.5	84.0			7.47
	Cypermethrin	56.0	68.3	54.7			22.0
	Cyprodinil	123	143	123			15.0
	Dacthal	82.0	96.5	92.3			4.52
	Dacthal	93.9	88.8	86.6			2.49
	DDD-p,p'	65.3	72.3	81.4			11.8
	DDD-p,p'	68.3	65.2	60.1			8.06
	DDE-p,p'	80.4	68.5	67.9			0.791
	DDE-p,p'	72.1	67.2	59.6			12.0

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	DDT-p,p'	60.8	62.8	54.8			13.5
	DDT-p,p'	67.4	64.6	57.5			11.6
	Dechlorane Plus	97.6	85.2	75.1			12.6
	Delta-BHC	107	124	131			5.11
	Delta-BHC	102	105	98.5			5.90
	Deltamethrin	126	119	79.4			40.3
	Deltamethrin	64.6	88.3	70.1			23.0
	Demeton	102	90.7	66.2			31.2
	Diazinon	101	107	83.2			25.3
	Dichlobenil	65.7	57.4	54.8			4.66
	Dichlobenil	69.0	66.6	49.0			30.4
	Dicofol	51.9	90.3	69.3			26.3
	Dicofol	75.5	71.7	65.0			9.82
	Dieldrin	81.5	70.4	70.0			0.577
	Dieldrin	81.3	75.9	70.7			7.04
	Difenoconazole	145	158	128			21.0
	Dimethenamid	103	61.2	43.9			33.0
	Dimethomorph	157	72.4	85.5			16.7
	Disulfoton	121	109	131			18.1
	Dithiopyr	91.1	107	90.2			16.9
	Endosulfan I	74.5	70.8	72.7			2.62
	Endosulfan I	80.9	77.7	72.8			6.46
	Endosulfan II	77.0	93.6	93.2			0.424
	Endosulfan II	90.5	82.1	78.3			4.72
	Endosulfan Sulfate	102	77.7	87.1			11.4
	Endosulfan Sulfate	96.7	92.8	85.7			7.92
	Endrin	87.7	73.5	77.0			4.67
	Endrin	86.4	79.8	76.2			4.58
	Endrin Aldehyde	82.2	71.9	92.1			24.6
	Endrin Aldehyde	95.3	83.3	73.5			12.5
	Endrin Ketone	104	87.2	92.3			5.70
	Endrin Ketone	92.8	62.5	59.6			4.77
	EPTC	64.5	58.4	54.9			6.29
	Esfenvalerate	70.2	104	77.0			29.3
	Esfenvalerate	50.3	72.0	58.1			21.4
	Ethalfluralin	66.7	66.4	56.3			16.3
	Ethalfluralin	67.4	66.9	62.4			7.02
	Ethion	27.3	26.3	30.7			15.2
	Ethoprop	104	124	149			18.0
	Etridiazole	59.5	73.4	53.6			31.3
	Fenamiphos	83.3	79.3	80.0			0.879
	Fenbuconazole	130	107	59.9			56.5
	Fenpropathrin	59.0	91.9	65.5			33.6
	Fenpropathrin	63.6	69.1	57.3			18.8
	Fipronil	91.1	131	119			9.44
	Fipronil Desulfinyl	81.5	121	89.1			30.7
	Fipronil Sulfide	102	90.7	108			17.0
	Fipronil Sulfone	99.9	49.0	2.18			183
	Fluazifop-P-butyl	86.0	120	92.1			26.3
	Fludioxonil	101	94.2	82.4			13.3
	Flumioxazin	107	53.1	35.8			38.9
	Flutolanil	74.1	61.7	75.5			9.55
	Fluxapyroxad	62.2	79.8	71.6			10.8
	Fonofos	84.5	101	78.8			25.0

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Gamma-BHC	103	107	95.8			11.4
	Gamma-BHC	95.4	89.0	82.5			7.60
	Gamma-Chlordane	58.7	73.5	57.3			24.7
	Gamma-Chlordane	65.8	64.2	54.9			15.6
	Heptachlor	69.8	63.8	58.1			9.29
	Heptachlor	59.4	58.5	48.3			19.1
	Heptachlor Epoxide	84.7	65.6	29.7			75.4
	Heptachlor Epoxide	80.6	75.7	68.4			10.1
	Hexachlorobenzene	48.6	53.5	48.6			9.57
	Hexachlorobenzene	50.7	53.1	41.4			24.6
	Hexazinone	105	77.9	106			7.63
	Imazalil	106	167	100			49.9
	Iprodione	119					25.1
	Kepone	86.2	115	97.5			16.7
	Kepone	112	115	90.8			23.8
	Lambda-Cyhalothrin	63.0	95.1	76.1			22.1
	Lambda-Cyhalothrin	26.6	36.8	28.4			25.7
	Loratadine	184	55.7	46.6			17.9
	Malathion	104	74.7	96.9			25.9
	Metalaxyl	85.2	93.2	97.6			4.63
	Methoprene	68.6	67.8	55.9			19.2
	Methoprene	58.5	59.8	48.9			20.1
	Methoxychlor	56.1	75.0	55.6			29.7
	Methoxychlor	79.8	79.0	73.7			6.91
	Metolachlor	88.9	77.8	89.3			8.87
	Metribuzin	128	122	117			2.68
	Mevinphos	103	75.3	67.4			11.1
	MGK-264	75.5	47.7	30.7			43.2
	MGK-264	82.5	80.6	76.1			5.83
	Mirex	72.9	72.9	56.6			25.2
	Mirex	44.4	52.6	41.4			23.7
	Molinate	66.8	74.7	80.6			7.64
	Myclobutanil	86.3	61.4	79.1			25.2
	Naled	112	91.3	64.8			34.1
	Napropamide	50.6	3.49	5.40			43.0
	Norflurazon	81.7	15.8	6.29			86.0
	Octinoxate	82.8	56.5	57.4			1.72
	Oxadiazon	64.9	74.8	71.3			4.81
	Oxybenzone	80.8	52.1	53.6			2.79
	Oxychlordane	79.5	59.6	14.7			121
	Oxychlordane	69.6	68.7	59.2			14.9
	Oxyfluorfen	129	131	150			13.8
	Parathion Ethyl	124	87.7	90.4			3.04
	Parathion Methyl	181	109	81.7			28.7
	PBDE-47	64.3	30.8	34.2			10.3
	PBDE-99	76.0	35.6	35.8			0.663
	PCB-1016	74.3	79.6	68.1			15.5
	PCB-1016	63.7	81.4	74.1			9.44
	PCB-1260	70.9	66.4	59.3			11.3
	PCB-1260	57.4	79.6	73.7			7.78
	Pendimethalin	114	85.2	99.3			15.2
	Permethrin	79.4	98.8	110			10.7
	Permethrin	35.1	42.7	31.4			30.5
	Phenothrin	57.7	79.3	96.7			19.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Phenothrin	42.0	60.4	45.5			28.2
	Phenytoin	14.6	39.3	16.3			82.9
	Phorate	71.9	98.3	81.5			18.7
	Piperonyl Butoxide	167	115	120			4.02
	Piperonyl Butoxide	143	136	136			0.684
	Prallethrin	85.8	75.5	71.2			5.93
	Prallethrin	79.8	71.3	68.5			4.05
	Prodiamine	59.6	104	73.3			34.9
	Prometon	85.2	74.5	64.5			14.4
	Prometryn	77.7					0.981
	Pronamide	80.7					6.40
	Propanil	79.1	76.3	93.5			20.2
	Propargite	42.3	23.3	15.7			39.5
	Propiconazole	70.4	41.8	14.2			98.7
	Pyraflufen Ethyl	111	40.8	5.06			156
	Pyridaben	103	158	118			28.5
	Pyriproxyfen	64.9	39.5	36.7			7.45
	Simazine	103	75.7	85.0			9.36
	Stirophos	30.3	15.4	18.9			20.5
	Sulfentrazone	92.7					1.62
	Tau-Fluvalinate	63.8	96.7	68.1			34.7
	Tau-Fluvalinate	42.1	69.2	54.6			23.6
	Tebuconazole	38.1	43.6	25.6			52.2
	Terbufos	83.1	126	127			0.567
	Terbuthylazine	113	91.1	77.1			16.6
	Tetramethrin	81.8	89.4	83.4			6.86
	Tetramethrin	101	111	102			8.18
	Thiobencarb	75.9	86.8	107			20.8
	Trans-Nonachlor	78.7	58.2	68.0			15.5
	Trans-Nonachlor	66.5	65.8	55.3			17.2
	Tri-o-cresyl Phosphate	81.1	53.1	52.6			1.02
	Triadimefon	70.5	116	114			1.90
	Triclosan Methyl	67.6	66.9	71.3			6.37
	Triclosan Methyl	83.2	78.1	73.1			6.61
	Trifluralin	65.5	62.5	64.1			2.39
	Trifluralin	67.6	65.4	56.3			14.8
EPA 8276	Chlordane	75.6	59.1	60.6			2.48
	Chlordane	61.7	83.9	85.1			1.36
	Toxaphene	70.9	51.8	57.4			10.2
	Toxaphene	60.6	77.9	80.8			3.61
EPA 8321B	2,4-D	117	105	109			4.37
	2,4-D	140	103	108			4.39
	2,4,5-T	95.6	107	116			8.26
	2,4,5-T	105	96.2	98.7			2.53
	3-Hydroxycarbofuran	92.3	56.8	65.6			14.4
	Acesulfame K	119	150	151			0.853
	Acetaminophen	97.0	117	108			7.69
	Acetaminophen	94.6	96.8	109			11.7
	Acetamiprid	98.7	56.6	56.4			0.293
	Acetamiprid	103	79.0	69.2			13.3
	Afidopyropen	74.2	55.6	54.8			1.52
	Afidopyropen	80.8	55.5	52.6			5.46
	Aldicarb	78.2	40.4	50.5			22.2
	Aldicarb Sulfone	93.5	82.8	88.9			7.07

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Aldicarb Sulfoxide	97.5	34.7	39.4			12.8
	AMPA	107					2.29
	Bentazon	120					15.6
	Bentazon	134	90.4	93.0			2.83
	Benzovindiflupyr	87.3	89.9	86.3			4.07
	Benzovindiflupyr	90.3	77.8	88.0			12.3
	Carbamazepine	84.1	53.1	51.0			4.04
	Carbamazepine	95.2	64.8	72.3			10.8
	Carbaryl	69.0	43.6	44.2			1.43
	Carbofuran	66.9	38.3	39.8			3.82
	Clothianidin	98.3	77.7	69.9			10.6
	Clothianidin	72.7	67.5	65.4			2.18
	Dinotefuran	103	81.5	65.0			22.5
	Dinotefuran	115	102	107			4.68
	Diuron	72.4	47.9	44.4			7.58
	Diuron	70.3	47.5	51.0			6.48
	Endothall	105	110	113			2.28
	Fenuron	95.2	53.6	41.2			26.3
	Fenuron	78.2	53.0	52.8			0.337
	Fluridone	74.2	81.3	72.1			12.0
	Fluridone	83.5	65.6	63.1			3.86
	Glufosinate	101	232	184			23.4
	Glyphosate	105					1.90
	Hydrocodone	82.4	67.6	59.6			12.7
	Hydrocodone	88.0	71.6	71.9			0.472
	Ibuprofen	106	74.4	69.7			6.54
	Ibuprofen	65.6	79.0	86.7			9.21
	Imazapyr	95.6					2.39
	Imazapyr	94.9	90.7	96.1			5.34
	Imidacloprid	97.2	109	96.2			12.7
	Imidacloprid	107					4.45
	Linuron	82.7	60.4	71.2			16.4
	Linuron	71.4	61.5	68.4			10.5
	Mandestrobin	90.4	80.4	74.8			7.26
	Mandestrobin	102	87.5	90.9			3.84
	MCPP	94.8	96.0	105			8.96
	MCPP	96.7	91.6	97.3			6.09
	Methiocarb	65.3	58.1	53.2			8.75
	Methomyl	90.3	42.2	45.5			5.72
	Naproxen	91.0	59.1	69.4			16.2
	Naproxen	75.2	111	101			9.58
	Oxamyl	96.8	79.9	77.6			2.83
	Primidone	96.3	93.4	70.3			28.2
	Primidone	94.3	75.1	81.6			8.35
	Propoxur	71.5	34.6	38.3			10.2
	Pyraclostrobin	82.9	73.4	78.3			6.49
	Pyraclostrobin	82.1	80.7	80.8			0.147
	Silvex	102	115	108			5.67
	Silvex	102	111	113			1.65
	Sucralose	111	108	113			2.95
	Thiamethoxam	102	84.0	72.0			15.3
	Thiamethoxam	87.7	82.2	78.2			3.28
	Tolfenpyrad	62.9	54.2	53.1			1.97
	Tolfenpyrad	49.5	55.8	53.8			3.77

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Triclopyr	86.1	108	100			7.14
	Triclopyr	93.9	104	116			10.7
SM 2320 B-2011	Total Alkalinity	99.5				0.540	
SM 2540 C-2015	TDS	104				4.89	
SM 2540 D-2015	TSS	95.3					
SM 4500-F- C-2011	Fluoride	98.5	99.2	98.6			0.479
SM 5310 B-2011	Organic Carbon	95.8	94.6	96.8			2.10

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2388355, 2388357
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2388355, 2388357
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2388355, 2388357
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2388355, 2388357
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2388356, 2388358
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2388356, 2388358
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2388356, 2388358
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2388356, 2388358
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2388390, 2388392
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2388389, 2388391
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2388390, 2388392
EPA 8270E	PCBs in water matrices by GC/MS/MS	2388389, 2388391
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2388389, 2388391
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2388378, 2388380
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2388379, 2388381, 2388382
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2388355, 2388357
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2388355, 2388357
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2388355, 2388357
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2388355, 2388357
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2388356, 2388358

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/17/2023			02/17/2023 14:24	Alexis Price	2388355
	02/17/2023			02/17/2023 14:31	Alexis Price	2388357
EPA 180.1 Rev. 2.0	02/17/2023			02/17/2023 13:38	Khloe J Berg	2388355
	02/17/2023			02/17/2023 13:40	Khloe J Berg	2388357
EPA 300.0 Rev. 2.1	02/17/2023			03/01/2023 21:13	Judith K. Clark	2388355
	02/17/2023			03/01/2023 21:28	Judith K. Clark	2388357
EPA 350.1 Rev. 2.0	02/17/2023			02/27/2023 12:45	Ping Hua	2388356
	02/17/2023			02/27/2023 12:46	Ping Hua	2388358
EPA 351.2 Rev. 2.0	02/17/2023	02/24/2023 12:50	Simonne.V. Calhoun	03/03/2023 14:53	Judith K. Clark	2388356
	02/17/2023	02/24/2023 12:50	Simonne.V. Calhoun	03/03/2023 14:55	Judith K. Clark	2388358
EPA 353.2 Rev. 2.0	02/17/2023			02/21/2023 09:59	Beverly Y. Sanders	2388356
	02/17/2023			02/21/2023 10:04	Beverly Y. Sanders	2388358
EPA 365.1 Rev. 2.0	02/17/2023	02/21/2023 12:56	Adam P Silver	02/22/2023 09:54	James L Waggerby	2388356
	02/17/2023	02/21/2023 12:56	Adam P Silver	02/22/2023 16:25	James L Waggerby	2388358
EPA 8270E	02/17/2023	02/22/2023 08:00	Fe-Val Siddell	02/24/2023 17:42	Michael Poppell	2388390
	02/17/2023	02/22/2023 08:00	Fe-Val Siddell	02/24/2023 19:50	Arthur Maknenko	2388390
	02/17/2023	02/22/2023 08:00	Fe-Val Siddell	02/24/2023 20:15	Arthur Maknenko	2388392
	02/17/2023	02/22/2023 08:00	Fe-Val Siddell	02/24/2023 22:52	Michael Poppell	2388392
	02/17/2023	02/22/2023 08:00	Fe-Val Siddell	03/03/2023 01:41	Michael Poppell	2388390
	02/17/2023	02/22/2023 08:00	Fe-Val Siddell	03/03/2023 03:08	Michael Poppell	2388390
	02/17/2023	02/22/2023 08:00	Fe-Val Siddell	03/06/2023 18:57	Michael Poppell	2388392
	02/17/2023	02/22/2023 09:30	Julie Wi	02/27/2023 13:17	Julie Wi	2388389
	02/17/2023	02/22/2023 09:30	Julie Wi	02/27/2023 23:45	Vandana T. Nagar	2388389
	02/17/2023	02/23/2023 08:00	Fe-Val Siddell	02/27/2023 20:14	Vandana T. Nagar	2388391
	02/17/2023	02/23/2023 08:00	Fe-Val Siddell	02/28/2023 02:32	Vandana T. Nagar	2388391
EPA 8276	02/17/2023	02/22/2023 09:30	Julie Wi	02/28/2023 06:24	Arthur Maknenko	2388389
	02/17/2023	02/23/2023 08:00	Fe-Val Siddell	03/02/2023 05:23	Arthur Maknenko	2388391
EPA 8321B	02/17/2023	02/20/2023 09:00	Hoor Shaik	02/20/2023 21:39	Juyoung Kim	2388378
	02/17/2023	02/20/2023 09:00	Hoor Shaik	02/20/2023 21:58	Juyoung Kim	2388380
	02/17/2023	02/20/2023 10:00	Hoor Shaik	02/21/2023 06:44	Juyoung Kim	2388379
	02/17/2023	02/20/2023 10:00	Hoor Shaik	02/21/2023 14:03	Juyoung Kim	2388379
	02/17/2023	02/21/2023 12:00	Manjita Shrestha	02/21/2023 14:01	Manjita Shrestha	2388379
	02/17/2023	02/21/2023 12:00	Manjita Shrestha	02/21/2023 14:14	Manjita Shrestha	2388381
	02/17/2023	02/21/2023 12:00	Manjita Shrestha	02/21/2023 14:41	Manjita Shrestha	2388382
	02/17/2023	02/21/2023 12:00	Manjita Shrestha	02/21/2023 22:07	Manjita Shrestha	2388379
	02/17/2023	02/21/2023 12:00	Manjita Shrestha	02/21/2023 22:21	Manjita Shrestha	2388381
	02/17/2023	02/21/2023 12:00	Manjita Shrestha	02/21/2023 22:49	Manjita Shrestha	2388382
	02/17/2023	02/23/2023 08:30	Hoor Shaik	02/23/2023 21:39	Juyoung Kim	2388382
	02/17/2023	02/23/2023 08:30	Hoor Shaik	02/23/2023 21:57	Juyoung Kim	2388381
SM 2320 B-2011	02/17/2023			02/22/2023 23:25	Chandler E Cox	2388357

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	02/17/2023			02/23/2023 00:35	Chandler E Cox	2388355
SM 2540 C-2015	02/17/2023			02/20/2023 15:46	Yijie Li	2388355, 2388357
SM 2540 D-2015	02/17/2023			02/20/2023 15:46	Yijie Li	2388355, 2388357
SM 4500-F- C-2011	02/17/2023			02/22/2023 23:25	Chandler E Cox	2388357
	02/17/2023			02/23/2023 00:35	Chandler E Cox	2388355
SM 5310 B-2011	02/17/2023			02/22/2023 20:29	Elise M. Gillis	2388356
	02/17/2023			02/22/2023 20:43	Elise M. Gillis	2388358