Chemical Analysis Report

SW-DIST-2023-12-07-01

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

Event Description: **Run 3**
Request ID: **RQ-2023-12-04-47**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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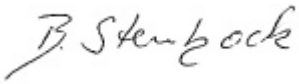
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 08-JAN-2024 15:54



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: Little Lake Wilson Center **Collection Date/Time: 12/06/2023 10:00**

Field ID: G1SW0006 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455345	DEP SOP: NU-094-1	Color (true)	29	A	PCU	P438672	
	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P438658	
	EPA 300.0 Rev. 2.1	Chloride	83		mg Cl/L	P439033	
		Sulfate	2.4		mg SO4/L	P439139	
	SM 2320 B-2011	Total Alkalinity	65		mg CaCO3/L	P438936	
	SM 2540 C-2015	TDS	227		mg/L	P439247	
	SM 2540 D-2015	TSS	4	I	mg/L	P439287	
	SM 4500-F- C-2011	Fluoride	0.078	I	mg F/L	P438938	
2455348	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P438842	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P438759	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P438727	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P438835	
	SM 5310 B-2014	Organic Carbon	13		mg C/L	P438734	
2455360	EPA 8270E	Aldrin	0.70	U	ng/L	P438886	
		Alpha-BHC	0.11	U	ng/L	P438886	
		Alpha-Chlordane	0.21	U	ng/L	P438886	
		PCB-1016	2.1	U	ng/L	P438886	
		Beta-BHC	0.11	U	ng/L	P438886	
		PCB-1221	2.1	U	ng/L	P438886	
		Beta-Cyfluthrin	1.3	U	ng/L	P438886	
		PCB-1232	2.1	U	ng/L	P438886	
		Bifenthrin	0.54	U	ng/L	P438886	
		PCB-1242	2.1	U	ng/L	P438886	
		Carbophenothion	0.97	U	ng/L	P438886	RPD
		PCB-1248	2.1	U	ng/L	P438886	
		Chlorothalonil	3.9	U	ng/L	P438886	
		PCB-1254	2.1	U	ng/L	P438886	
		Cis-Nonachlor	0.21	U	ng/L	P438886	
		PCB-1260	2.1	U	ng/L	P438886	
		Cypermethrin	1.6	U	ng/L	P438886	
		Dacthal	0.16	U	ng/L	P438886	
		DDD-p,p'	0.27	U	ng/L	P438886	
		DDE-p,p'	0.21	U	ng/L	P438886	
		DDT-p,p'	0.86	U	ng/L	P438886	
		Delta-BHC	0.43	U	ng/L	P438886	
		Deltamethrin	1.3	UJ	ng/L	P438886	LCS, RPD
		Dichlobenil	0.27	U	ng/L	P438886	
		Dicofol	1.3	U	ng/L	P438886	
		Dieldrin	0.43	U	ng/L	P438886	
		Endosulfan I	0.43	U	ng/L	P438886	
		Endosulfan II	0.97	U	ng/L	P438886	
		Endosulfan Sulfate	0.32	U	ng/L	P438886	
		Endrin	0.97	U	ng/L	P438886	
		Endrin Aldehyde	0.80	U	ng/L	P438886	

Field ID: G1SW0006 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455360	EPA 8270E	Endrin Ketone	0.43	U	ng/L	P438886	
		Esfenvalerate	0.80	U	ng/L	P438886	
		Ethalfluralin	0.16	U	ng/L	P438886	
		Fenpropathrin	0.27	U	ng/L	P438886	
		Gamma-BHC	0.13	U	ng/L	P438886	
		Gamma-Chlordane	0.21	U	ng/L	P438886	
		Heptachlor	0.21	U	ng/L	P438886	
		Heptachlor Epoxide	0.27	U	ng/L	P438886	
		Hexachlorobenzene**	1.1	U	ng/L	P438886	
		Kepone	14	U	ng/L	P438886	
		Lambda-Cyhalothrin	0.80	U	ng/L	P438886	
		Methoprene	0.80	U	ng/L	P438886	
		Methoxychlor	0.32	U	ng/L	P438886	
		MGK-264	0.21	U	ng/L	P438886	
		Mirex	0.38	U	ng/L	P438886	
		Oxychlordane	0.32	U	ng/L	P438886	
		Permethrin	1.7	U	ng/L	P438886	
		Phenothrin	0.97	U	ng/L	P438886	
		Piperonyl Butoxide	0.22	I	ng/L	P438886	
		Prallethrin	2.1	U	ng/L	P438886	
		Tau-Fluvalinate	0.27	U	ng/L	P438886	
		Tetramethrin	0.80	U	ng/L	P438886	
		Trans-Nonachlor	0.21	U	ng/L	P438886	MS
		Triclosan Methyl	0.16	U	ng/L	P438886	
		Trifluralin	0.21	U	ng/L	P438886	
	EPA 8276	Chlordane	2.1	U	ng/L	P438886	
		Toxaphene	16	U	ng/L	P438886	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Irvin Lake **Collection Date/Time: 12/06/2023 11:15**

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455346	DEP SOP: NU-094-1	Color (true)	57		PCU	P438672	
	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P438658	
	EPA 300.0 Rev. 2.1	Chloride	9.6		mg Cl/L	P439033	
		Sulfate	1.4		mg SO4/L	P439139	
	SM 2320 B-2011	Total Alkalinity	41		mg CaCO3/L	P438936	
	SM 2540 C-2015	TDS	69		mg/L	P439247	
	SM 2540 D-2015	TSS	20	I	mg/L	P439287	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P438938	
2455349	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P438842	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.2		mg N/L	P438759	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P438727	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P438835	
	SM 5310 B-2014	Organic Carbon	20		mg C/L	P438734	
2455355	EPA 8321B	Aldicarb	0.020	U	ug/L	P438625	
		Aldicarb Sulfone	0.0020	U	ug/L	P438625	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438625	
		Carbaryl	0.0020	U	ug/L	P438625	
		Carbofuran	0.0020	U	ug/L	P438625	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438625	
		Methiocarb	0.0020	U	ug/L	P438625	
		Methomyl	0.0020	U	ug/L	P438625	
		Oxamyl	0.0020	U	ug/L	P438625	
		Propoxur	0.0020	U	ug/L	P438625	
2455358		2,4-D	0.25		ug/L	P438687	
		Acesulfame K	0.10	U	ug/L	P438624	
		2,4,5-T	0.0040	U	ug/L	P438687	
		AMPA	0.11	I	ug/L	P438624	
		Acetaminophen	0.0080	U	ug/L	P438687	
		Acetamiprid	0.0020	U	ug/L	P438687	
		Endothall	0.25	U	ug/L	P438624	
		Glufosinate	0.10	U	ug/L	P438624	
		Glyphosate	0.10	U	ug/L	P438624	
		Afidopyropen	0.0020	U	ug/L	P438687	
		Bentazon	8.0E-04	U	ug/L	P438687	
		Sucralose	0.046		ug/L	P438624	
		Benzovindiflupyr	0.0020	U	ug/L	P438687	
		Carbamazepine	8.0E-04	U	ug/L	P438687	
		Clothianidin	0.0020	U	ug/L	P438687	
		Dinotefuran	0.0020	U	ug/L	P438687	
		Diuron	0.0020	U	ug/L	P438687	
		Fenuron	0.032	U	ug/L	P438687	
		Fluridone	8.4E-04	I	ug/L	P438687	
		Imazapyr	0.038		ug/L	P438687	
		Hydrocodone	0.0020	U	ug/L	P438687	

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455358	EPA 8321B	Ibuprofen	0.080	U	ug/L	P438687	
		Imidacloprid	0.0020	U	ug/L	P438687	
		Linuron	0.0040	U	ug/L	P438687	
		Mandestrobin	0.0020	U	ug/L	P438687	
		MCPP	0.0020	U	ug/L	P438687	
		Naproxen	0.0080	U	ug/L	P438687	
		Primidone	0.0040	U	ug/L	P438687	
		Pyraclostrobin	0.0020	U	ug/L	P438687	
		Silvex	0.0040	U	ug/L	P438687	
		Thiamethoxam	0.0020	U	ug/L	P438687	
		Tolfenpyrad	0.0020	U	ug/L	P438687	
		Triclopyr	0.0040	U	ug/L	P438687	
2455361	EPA 8270E	Aldrin	0.70	U	ng/L	P438886	
		Alpha-BHC	0.11	U	ng/L	P438886	
		Alpha-Chlordane	0.22	U	ng/L	P438886	
		PCB-1016	2.2	U	ng/L	P438886	
		Beta-BHC	0.11	U	ng/L	P438886	
		PCB-1221	2.2	U	ng/L	P438886	
		Beta-Cyfluthrin	1.3	U	ng/L	P438886	
		PCB-1232	2.2	U	ng/L	P438886	
		Bifenthrin	0.54	U	ng/L	P438886	
		PCB-1242	2.2	U	ng/L	P438886	
		Carbophenothion	0.97	U	ng/L	P438886	RPD
		PCB-1248	2.2	U	ng/L	P438886	
		Chlorothalonil	3.9	U	ng/L	P438886	
		PCB-1254	2.2	U	ng/L	P438886	
		Cis-Nonachlor	0.22	U	ng/L	P438886	
		PCB-1260	2.2	U	ng/L	P438886	
		Cypermethrin	1.6	U	ng/L	P438886	
		Dacthal	0.16	U	ng/L	P438886	
		DDD-p,p'	0.27	U	ng/L	P438886	
		DDE-p,p'	0.22	U	ng/L	P438886	
		DDT-p,p'	0.86	U	ng/L	P438886	
		Delta-BHC	0.43	U	ng/L	P438886	
		Deltamethrin	1.3	UJ	ng/L	P438886	LCS, RPD
		Dichlobenil	0.27	U	ng/L	P438886	
		Dicofol	1.3	U	ng/L	P438886	
		Dieldrin	0.43	U	ng/L	P438886	
		Endosulfan I	0.43	U	ng/L	P438886	
		Endosulfan II	0.97	U	ng/L	P438886	
		Endosulfan Sulfate	0.32	U	ng/L	P438886	
		Endrin	0.97	U	ng/L	P438886	
		Endrin Aldehyde	0.81	U	ng/L	P438886	
		Endrin Ketone	0.43	U	ng/L	P438886	
		Esfenvalerate	0.81	U	ng/L	P438886	

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455361	EPA 8270E	Ethalfluralin	0.16	U	ng/L	P438886	
		Fenpropathrin	0.27	U	ng/L	P438886	
		Gamma-BHC	0.13	U	ng/L	P438886	
		Gamma-Chlordane	0.22	U	ng/L	P438886	
		Heptachlor	0.22	U	ng/L	P438886	
		Heptachlor Epoxide	0.27	U	ng/L	P438886	
		Hexachlorobenzene**	1.1	U	ng/L	P438886	
		Kepone	15	U	ng/L	P438886	
		Lambda-Cyhalothrin	0.81	U	ng/L	P438886	
		Methoprene	0.81	U	ng/L	P438886	
		Methoxychlor	0.32	U	ng/L	P438886	
		MGK-264	0.22	U	ng/L	P438886	
		Mirex	0.38	U	ng/L	P438886	
		Oxychlordane	0.32	U	ng/L	P438886	
		Permethrin	1.7	U	ng/L	P438886	
		Phenothrin	0.97	U	ng/L	P438886	
		Piperonyl Butoxide	0.16	U	ng/L	P438886	
		Prallethrin	2.2	U	ng/L	P438886	
		Tau-Fluvalinate	0.27	U	ng/L	P438886	
		Tetramethrin	0.81	U	ng/L	P438886	
		Trans-Nonachlor	0.22	U	ng/L	P438886	MS
		Triclosan Methyl	0.16	U	ng/L	P438886	
		Trifluralin	0.22	U	ng/L	P438886	
	EPA 8276	Chlordane	2.2	U	ng/L	P438886	
		Toxaphene	16	U	ng/L	P438886	
2455364	EPA 8270E	Oxybenzone**	11	UJ	ng/L	P438743	LCS, MS
		Acetochlor	0.22	U	ng/L	P438743	
		Octinoxate**	160	UJ	ng/L	P438743	MS
		Alachlor	0.43	U	ng/L	P438743	
		Avobenzone**	110	UJ	ng/L	P438743	MS
		Ametryn	1.2	U	ng/L	P438743	
		Atrazine	84		ng/L	P438743	
		PBDE-47**	4.3	UJ	ng/L	P438743	MS
		Atrazine Desethyl	1.4	U	ng/L	P438743	
		PBDE-99**	5.4	UJ	ng/L	P438743	MS
		Azinphos Methyl	3.3	U	ng/L	P438743	
		Tri-o-cresyl Phosphate**	6.5	UJ	ng/L	P438743	LCS, MS
		Azoxystrobin	0.43	U	ng/L	P438743	
		Bromacil	0.65	U	ng/L	P438743	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	UJ	ng/L	P438743	MS
		Butylate	0.49	U	ng/L	P438743	
		Dechlorane Plus**	33	U	ng/L	P438743	
		Caffeine**	15	I	ng/L	P438743	
		Dechlorane 602**	5.4	UJ	ng/L	P438743	MS

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455364	EPA 8270E	Carbophenothion	0.54	U	ng/L	P438743	
		Dechlorane 603**	4.3	U	ng/L	P438743	
		Carfentrazone Ethyl	0.16	U	ng/L	P438743	
		Hexabromobenzene**	6.5	U	ng/L	P438743	
		Chlorfenapyr	0.33	U	ng/L	P438743	
		PBB-153**	6.5	U	ng/L	P438743	
		Chlorpyrifos Ethyl	0.33	U	ng/L	P438743	
		Pentabromotoluene**	3.3	UJ	ng/L	P438743	MS, RPD
		Chlorpyrifos Methyl	0.11	U	ng/L	P438743	
		Tris(2-chloroethyl) phosphate (TCEP)**	60	UJ	ng/L	P438743	MS
		Coumaphos	1.1	U	ng/L	P438743	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	33	I	ng/L	P438743	
		Cyanazine	5.4	U	ng/L	P438743	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.0	I J	ng/L	P438743	LCS, MS
		Cyprodinil	0.22	U	ng/L	P438743	
		Tetradecachloro-m-terphenyl**	8.2	UJ	ng/L	P438743	MS
		Demeton	3.8	U	ng/L	P438743	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	65	UJ	ng/L	P438743	MS
		Diazinon	0.14	U	ng/L	P438743	
		Difenoconazole	0.65	U	ng/L	P438743	
		Dimethenamid	0.11	U	ng/L	P438743	
		Dimethomorph	0.33	U	ng/L	P438743	
		Disulfoton	0.65	U	ng/L	P438743	
		Dithiopyr	1.1	U	ng/L	P438743	
		EPTC	0.54	U	ng/L	P438743	
		Ethion	0.33	U	ng/L	P438743	
		Ethoprop	0.14	U	ng/L	P438743	
		Etridiazole	0.11	U	ng/L	P438743	
		Fenamiphos	0.49	U	ng/L	P438743	
		Fenbuconazole	0.54	U	ng/L	P438743	
		Fipronil	0.22	U	ng/L	P438743	
		Fipronil Desulfinyl**	0.11	U	ng/L	P438743	
		Fipronil Sulfide	0.33	I	ng/L	P438743	
		Fipronil Sulfone	0.45	I	ng/L	P438743	
		Fluazifop-P-butyl	0.11	UJ	ng/L	P438743	LCS, MS
		Fludioxonil	0.11	U	ng/L	P438743	
		Flumioxazin	3.3	U	ng/L	P438743	
		Flutolanil	0.11	U	ng/L	P438743	
		Fluxapyroxad	0.27	UJ	ng/L	P438743	CCV
		Fonofos	0.16	U	ng/L	P438743	
		Hexazinone	0.54	U	ng/L	P438743	
		Imazalil	0.71	UJ	ng/L	P438743	CCV
		Iprodione	0.54	U	ng/L	P438743	
		Loratadine**	0.33	U	ng/L	P438743	

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455364	EPA 8270E	Malathion	0.38	U	ng/L	P438743	
		Metalaxyl	0.54	U	ng/L	P438743	
		Metolachlor	0.82	U	ng/L	P438743	
		Metribuzin	0.43	U	ng/L	P438743	
		Mevinphos	1.1	U	ng/L	P438743	
		Molinate	0.27	U	ng/L	P438743	
		Myclobutanil	0.38	U	ng/L	P438743	
		Naled	2.7	U	ng/L	P438743	
		Napropamide	0.76	U	ng/L	P438743	
		Norflurazon	1.1	UJ	ng/L	P438743	MS
		Oxadiazon	0.83	I	ng/L	P438743	
		Oxyfluorfen	0.22	U	ng/L	P438743	
		Parathion Ethyl	0.16	UJ	ng/L	P438743	LCS
		Parathion Methyl	0.22	U	ng/L	P438743	
		Pendimethalin	1.8	U	ng/L	P438743	
		Phenytoin**	5.8	U	ng/L	P438743	
		Phorate	0.27	U	ng/L	P438743	
		Prodiamine	0.22	U	ng/L	P438743	
		Prometon	3.3	U	ng/L	P438743	
		Prometryn	0.38	UJ	ng/L	P438743	MS
		Pronamide	0.11	U	ng/L	P438743	
		Propanil	0.11	U	ng/L	P438743	
		Propargite	0.87	U	ng/L	P438743	
		Propiconazole	0.65	U	ng/L	P438743	
		Pyraflufen Ethyl	0.33	UJ	ng/L	P438743	CCV
		Pyridaben	1.5	UJ	ng/L	P438743	CCV
		Pyriproxyfen	0.27	UJ	ng/L	P438743	CCV
		Simazine	0.27	U	ng/L	P438743	
		Stirophos	0.43	U	ng/L	P438743	
		Sulfentrazone	1.5	UJ	ng/L	P438743	CCV
		Tebuconazole	1.5	U	ng/L	P438743	
		Terbufos	0.22	U	ng/L	P438743	
		Terbuthylazine	0.22	U	ng/L	P438743	
		Thiobencarb	0.54	U	ng/L	P438743	
		Triadimefon	0.16	U	ng/L	P438743	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB **Collection Date/Time: 12/06/2023 11:30**

Field ID: FB_12062023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455347	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P438672	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P438658	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P439033	
		Sulfate	0.20	U	mg SO4/L	P439139	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P438936	
	SM 2540 C-2015	TDS	15	U	mg/L	P439247	
	SM 2540 D-2015	TSS	2	U	mg/L	P439287	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P438938	
2455350	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P438710	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P438759	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P438889	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P438835	
	SM 5310 B-2014	Organic Carbon	0.53	I	mg C/L	P438734	
2455356	EPA 8321B	Aldicarb	0.020	U	ug/L	P438625	
		Aldicarb Sulfone	0.0020	U	ug/L	P438625	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438625	
		Carbaryl	0.0020	U	ug/L	P438625	
		Carbofuran	0.0020	U	ug/L	P438625	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438625	
		Methiocarb	0.0020	U	ug/L	P438625	
		Methomyl	0.0020	U	ug/L	P438625	
		Oxamyl	0.0020	U	ug/L	P438625	
		Propoxur	0.0020	U	ug/L	P438625	
2455359		2,4-D	0.0020	U	ug/L	P438687	
		Acesulfame K	0.10	U	ug/L	P438624	
		2,4,5-T	0.0040	U	ug/L	P438687	
		AMPA	0.10	U	ug/L	P438624	
		Acetaminophen	0.0080	U	ug/L	P438687	
		Acetamiprid	0.0020	U	ug/L	P438687	
		Endothall	0.25	U	ug/L	P438624	
		Glufosinate	0.10	U	ug/L	P438624	
		Glyphosate	0.10	U	ug/L	P438624	
		Afidopyropen	0.0020	U	ug/L	P438687	
		Bentazon	8.0E-04	U	ug/L	P438687	
		Sucralose	0.010	U	ug/L	P438624	
		Benzovindiflupyr	0.0020	U	ug/L	P438687	
		Carbamazepine	8.0E-04	U	ug/L	P438687	
		Clothianidin	0.0020	U	ug/L	P438687	
		Dinotefuran	0.0020	U	ug/L	P438687	
		Diuron	0.0020	U	ug/L	P438687	
		Fenuron	0.032	U	ug/L	P438687	
		Fluridone	8.0E-04	U	ug/L	P438687	
		Imazapyr	0.0040	U	ug/L	P438687	
		Hydrocodone	0.0020	U	ug/L	P438687	

Field ID: FB_12062023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455359	EPA 8321B	Ibuprofen	0.080	U	ug/L	P438687	
		Imidacloprid	0.0020	U	ug/L	P438687	
		Linuron	0.0040	U	ug/L	P438687	
		Mandestrobin	0.0020	U	ug/L	P438687	
		MCPP	0.0020	U	ug/L	P438687	
		Naproxen	0.0080	U	ug/L	P438687	
		Primidone	0.0040	U	ug/L	P438687	
		Pyraclostrobin	0.0020	U	ug/L	P438687	
		Silvex	0.0040	U	ug/L	P438687	
		Thiamethoxam	0.0020	U	ug/L	P438687	
		Tolfenpyrad	0.0020	U	ug/L	P438687	
		Triclopyr	0.0040	U	ug/L	P438687	
2455362	EPA 8270E	Aldrin	0.69	U	ng/L	P438886	
		Alpha-BHC	0.11	U	ng/L	P438886	
		Alpha-Chlordane	0.21	U	ng/L	P438886	
		PCB-1016	2.1	U	ng/L	P438886	
		Beta-BHC	0.11	U	ng/L	P438886	
		PCB-1221	2.1	U	ng/L	P438886	
		Beta-Cyfluthrin	1.3	U	ng/L	P438886	
		PCB-1232	2.1	U	ng/L	P438886	
		Bifenthrin	0.53	U	ng/L	P438886	
		PCB-1242	2.1	U	ng/L	P438886	
		Carbophenothion	0.96	U	ng/L	P438886	RPD
		PCB-1248	2.1	U	ng/L	P438886	
		Chlorothalonil	3.8	U	ng/L	P438886	
		PCB-1254	2.1	U	ng/L	P438886	
		Cis-Nonachlor	0.21	U	ng/L	P438886	
		PCB-1260	2.1	U	ng/L	P438886	
		Cypermethrin	1.6	U	ng/L	P438886	
		Dacthal	0.16	U	ng/L	P438886	
		DDD-p,p'	0.27	U	ng/L	P438886	
		DDE-p,p'	0.21	U	ng/L	P438886	
		DDT-p,p'	0.85	U	ng/L	P438886	
		Delta-BHC	0.42	U	ng/L	P438886	
		Deltamethrin	1.3	UJ	ng/L	P438886	LCS, RPD
		Dichlobenil	0.27	U	ng/L	P438886	
		Dicofol	1.3	U	ng/L	P438886	
		Dieldrin	0.42	U	ng/L	P438886	
		Endosulfan I	0.42	U	ng/L	P438886	
		Endosulfan II	0.96	U	ng/L	P438886	
		Endosulfan Sulfate	0.32	U	ng/L	P438886	
		Endrin	0.96	U	ng/L	P438886	
		Endrin Aldehyde	0.80	U	ng/L	P438886	
		Endrin Ketone	0.42	U	ng/L	P438886	
		Esfenvalerate	0.80	U	ng/L	P438886	

Field ID: FB_12062023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455362	EPA 8270E	Ethalfluralin	0.16	U	ng/L	P438886	
		Fenpropathrin	0.27	U	ng/L	P438886	
		Gamma-BHC	47		ng/L	P438886	
		Gamma-Chlordane	0.21	U	ng/L	P438886	
		Heptachlor	0.21	U	ng/L	P438886	
		Heptachlor Epoxide	0.27	U	ng/L	P438886	
		Hexachlorobenzene**	1.1	U	ng/L	P438886	
		Kepone	14	U	ng/L	P438886	
		Lambda-Cyhalothrin	0.80	U	ng/L	P438886	
		Methoprene	0.80	U	ng/L	P438886	
		Methoxychlor	0.32	U	ng/L	P438886	
		MGK-264	0.21	U	ng/L	P438886	
		Mirex	0.37	U	ng/L	P438886	
		Oxychlordane	0.32	U	ng/L	P438886	
		Permethrin	1.7	U	ng/L	P438886	
		Phenothrin	0.96	U	ng/L	P438886	
		Piperonyl Butoxide	0.16	U	ng/L	P438886	
		Prallethrin	2.1	U	ng/L	P438886	
		Tau-Fluvalinate	0.27	U	ng/L	P438886	
		Tetramethrin	0.80	U	ng/L	P438886	
		Trans-Nonachlor	0.21	U	ng/L	P438886	MS
		Triclosan Methyl	0.16	U	ng/L	P438886	
		Trifluralin	0.21	U	ng/L	P438886	
	EPA 8276	Chlordane	2.1	U	ng/L	P438886	
		Toxaphene	16	U	ng/L	P438886	
2455365	EPA 8270E	Oxybenzone**	10	UJ	ng/L	P438743	LCS, MS
		Acetochlor	0.21	U	ng/L	P438743	
		Octinoxate**	160	U	ng/L	P438743	MS
		Alachlor	0.42	U	ng/L	P438743	
		Avobenzone**	100	U	ng/L	P438743	MS
		Ametryn	1.2	U	ng/L	P438743	
		Atrazine	0.21	U	ng/L	P438743	
		PBDE-47**	4.2	U	ng/L	P438743	MS
		Atrazine Desethyl	1.4	U	ng/L	P438743	
		PBDE-99**	5.2	U	ng/L	P438743	MS
		Azinphos Methyl	3.1	U	ng/L	P438743	
		Tri-o-cresyl Phosphate**	6.3	UJ	ng/L	P438743	LCS, MS
		Azoxystrobin	0.42	U	ng/L	P438743	
		Bromacil	0.63	U	ng/L	P438743	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P438743	MS
		Butylate	0.47	U	ng/L	P438743	
		Dechlorane Plus**	31	U	ng/L	P438743	
		Caffeine**	7.8	U	ng/L	P438743	
		Dechlorane 602**	5.2	U	ng/L	P438743	MS

Field ID: FB_12062023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455365	EPA 8270E	Carbophenothion	0.52	U	ng/L	P438743	
		Dechlorane 603**	4.2	U	ng/L	P438743	
		Carfentrazone Ethyl	0.16	U	ng/L	P438743	
		Hexabromobenzene**	6.3	U	ng/L	P438743	
		Chlorfenapyr	0.31	U	ng/L	P438743	
		PBB-153**	6.3	U	ng/L	P438743	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P438743	
		Pentabromotoluene**	3.1	U	ng/L	P438743	MS, RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P438743	
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P438743	MS
		Coumaphos	1.1	U	ng/L	P438743	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P438743	
		Cyanazine	5.2	U	ng/L	P438743	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	UJ	ng/L	P438743	LCS, MS
		Cyprodinil	0.21	U	ng/L	P438743	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P438743	MS
		Demeton	3.7	U	ng/L	P438743	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	63	U	ng/L	P438743	MS
		Diazinon	0.13	U	ng/L	P438743	
		Difenoconazole	0.63	U	ng/L	P438743	
		Dimethenamid	0.10	U	ng/L	P438743	
		Dimethomorph	0.31	U	ng/L	P438743	
		Disulfoton	0.63	U	ng/L	P438743	
		Dithiopyr	1.0	U	ng/L	P438743	
		EPTC	0.52	U	ng/L	P438743	
		Ethion	0.31	U	ng/L	P438743	
		Ethoprop	0.13	U	ng/L	P438743	
		Etridiazole	0.10	U	ng/L	P438743	
		Fenamiphos	0.47	U	ng/L	P438743	
		Fenbuconazole	0.52	U	ng/L	P438743	
		Fipronil	0.21	U	ng/L	P438743	
		Fipronil Desulfinyl**	0.10	U	ng/L	P438743	
		Fipronil Sulfide	0.10	U	ng/L	P438743	
		Fipronil Sulfone	0.10	U	ng/L	P438743	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P438743	LCS, MS
		Fludioxonil	0.10	U	ng/L	P438743	
		Flumioxazin	3.1	U	ng/L	P438743	
		Flutolanil	0.10	U	ng/L	P438743	
		Fluxapyroxad	0.26	UJ	ng/L	P438743	CCV
		Fonofos	0.16	U	ng/L	P438743	
		Hexazinone	0.52	U	ng/L	P438743	
		Imazalil	0.68	UJ	ng/L	P438743	CCV
		Iprodione	0.52	U	ng/L	P438743	
		Loratadine**	0.31	U	ng/L	P438743	

Field ID: FB_12062023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455365	EPA 8270E	Malathion	0.37	U	ng/L	P438743	
		Metalaxyl	0.52	U	ng/L	P438743	
		Metolachlor	0.78	U	ng/L	P438743	
		Metribuzin	0.42	U	ng/L	P438743	
		Mevinphos	1.0	U	ng/L	P438743	
		Molinate	0.26	U	ng/L	P438743	
		Myclobutanil	0.37	U	ng/L	P438743	
		Naled	2.6	U	ng/L	P438743	
		Napropamide	0.73	U	ng/L	P438743	
		Norflurazon	1.0	U	ng/L	P438743	MS
		Oxadiazon	0.37	U	ng/L	P438743	
		Oxyfluorfen	0.21	U	ng/L	P438743	
		Parathion Ethyl	0.16	UJ	ng/L	P438743	LCS
		Parathion Methyl	0.21	U	ng/L	P438743	
		Pendimethalin	1.8	U	ng/L	P438743	
		Phenytoin**	5.5	U	ng/L	P438743	
		Phorate	0.26	U	ng/L	P438743	
		Prodiamine	0.21	U	ng/L	P438743	
		Prometon	3.1	U	ng/L	P438743	
		Prometryn	0.37	U	ng/L	P438743	MS
		Pronamide	0.10	U	ng/L	P438743	
		Propanil	0.10	U	ng/L	P438743	
		Propargite	0.84	U	ng/L	P438743	
		Propiconazole	0.63	U	ng/L	P438743	
		Pyraflufen Ethyl	0.31	U	ng/L	P438743	
		Pyridaben	1.5	U	ng/L	P438743	
		Pyriproxyfen	0.26	UJ	ng/L	P438743	CCV
		Simazine	0.26	U	ng/L	P438743	
		Stirophos	0.42	U	ng/L	P438743	
		Sulfentrazone	1.5	UJ	ng/L	P438743	CCV
		Tebuconazole	1.5	U	ng/L	P438743	
		Terbufos	0.21	U	ng/L	P438743	
		Terbuthylazine	0.21	U	ng/L	P438743	
		Thiobencarb	0.52	U	ng/L	P438743	
		Triadimefon	0.16	U	ng/L	P438743	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 5310 B-2014: The result was confirmed on 12/13/2023.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes. Result for the extract was confirmed.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P438672

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438658

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439033

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439139

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438710

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438842

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438759

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438727

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438889

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438835

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

Reference Method: EPA 8270E
Batch ID: P438743

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P438743

Component	Result	Code	Units
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P438886

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P438886

Component	Result	Code	Units
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P438886

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

Reference Method: EPA 8321B
Batch ID: P438624

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: P438625

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: P438687

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P438687

Component	Result	Code	Units
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: P438936

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

Reference Method: SM 2540 C-2015
Batch ID: P439247

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P439287

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P438734

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: P438672

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.3		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438658

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439033

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439139

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438842

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438759

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438727

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438889

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438835

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

Reference Method: EPA 8270E
Batch ID: P438743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	90.1		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	127		P	37 - 154
Acetochlor	95.8		P	60 - 124
Alachlor	104		P	54 - 122
Ametryn	141		P	51 - 208
Atrazine	109		P	57 - 131
Atrazine Desethyl	116		P	13 - 124
Avobenzone	150		P	48 - 193
Azinphos Methyl	201		P	43 - 276
Azoxystrobin	148		P	52 - 300
Bromacil	107		P	44 - 134
Butylate	70.0		P	23 - 82.0
Caffeine	116		P	10 - 277
Carbophenothion	129		P	47 - 135
Carfentrazone Ethyl	137		P	46 - 147
Chlorfenapyr	87.2		P	43 - 114
Chlorpyrifos Ethyl	73.0		P	47 - 124
Chlorpyrifos Methyl	89.3		P	60 - 135
Coumaphos	101		P	10 - 222
Cyanazine	179		P	10 - 257
Cyprodinil	109		P	42 - 148
Dechlorane 602	71.5		P	23 - 142
Dechlorane 603	137		P	51 - 171
Dechlorane Plus	111		P	46 - 161
Demeton	127		P	41 - 137
Diazinon	129		P	64 - 139
Difenoconazole	61.8		P	46 - 254
Dimethenamid	92.0		P	47 - 117
Dimethomorph	169		P	14 - 255
Disulfoton	127		P	52 - 130
Dithiopyr	115		P	40 - 121
EPTC	57.7		P	19 - 78.0
Ethion	35.3		P	12 - 124
Ethoprop	130		P	68 - 144
Etridiazole	61.8		P	26 - 96.0
Fenamiphos	114		P	41 - 129
Fenbuconazole	82.4		P	26 - 169
Fipronil	101		P	46 - 145
Fipronil Desulfinyl	109		P	47 - 136
Fipronil Sulfide	114		P	41 - 127
Fipronil Sulfone	101		P	35 - 133
Fluazifop-P-butyl	139		F	46 - 131
Fludioxonil	82.1		P	51 - 124
Flumioxazin	107		P	10 - 289
Flutolanil	82.4		P	34 - 130
Fluxapyroxad	99.0		P	10 - 197

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P438743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fonofos	81.4		P	42 - 131
Hexabromobenzene	134		P	52 - 165
Hexazinone	108		P	64 - 125
Imazalil	88.4		P	37 - 252
Iprodione	196		P	34 - 265
Loratadine	187		P	20 - 231
Malathion	146		P	34 - 164
Metalaxyl	108		P	49 - 125
Metolachlor	115		P	54 - 125
Metribuzin	135		P	51 - 139
Mevinphos	111		P	46 - 130
Molinate	91.2		P	39 - 93.0
Myclobutanil	92.9		P	50 - 130
Naled	23.7		P	10 - 150
Napropamide	62.8		P	10 - 109
Norflurazon	127		P	36 - 134
Octinoxate	172		P	29 - 176
Oxadiazon	85.0		P	43 - 112
Oxybenzone	146		F	45 - 145
Oxyfluorfen	109		P	62 - 154
Parathion Ethyl	127		F	65 - 120
Parathion Methyl	156		P	77 - 185
PBB-153	137		P	42 - 179
PBDE-47	90.5		P	44 - 141
PBDE-99	108		P	36 - 141
Pendimethalin	137		P	50 - 146
Pentabromotoluene	142		P	58 - 148
Phenytoin	51.6		P	10 - 157
Phorate	158		P	54 - 161
Prodiamine	67.7		P	29 - 160
Prometon	93.3		P	38 - 145
Prometryn	120		P	32 - 151
Pronamide	110		P	61 - 140
Propanil	115		P	50 - 147
Propargite	73.3		P	10 - 190
Propiconazole	93.6		P	30 - 146
Pyraflufen Ethyl	135		P	30 - 147
Pyridaben	86.0		P	15 - 195
Pyriproxyfen	95.1		P	31 - 218
Simazine	113		P	45 - 139
Stirophos	35.3		P	10 - 134
Sulfentrazone	119		P	53 - 186
Tebuconazole	56.6		P	10 - 133
Terbufos	141		P	65 - 151
Terbuthylazine	99.3		P	62 - 117
Tetradecachloro-m-terphenyl	222		P	30 - 235
Thiobencarb	108		P	48 - 122
Tri-o-cresyl Phosphate	154		F	50 - 150
Triadimefon	89.4		P	46 - 124
Tris(1-chloro-2-propyl) phosphate (TCPP)	60.1		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	60.5		F	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	64.1		P	59 - 166

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P438886

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	40.8		P	30 - 96.0
Alpha-BHC	78.5		P	70 - 109
Alpha-Chlordane	61.8		P	45 - 107
Beta-BHC	84.4		P	64 - 138
Beta-Cyfluthrin	50.7		P	17 - 141
Bifenthrin	31.6		P	10 - 113
Carbophenothion	61.9		P	24 - 91.0
Chlorothalonil	87.4		P	26 - 180
Cis-Nonachlor	57.7		P	37 - 102
Cypermethrin	45.7		P	20 - 133
Dacthal	83.1		P	69 - 114
DDD-p,p'	59.4		P	42 - 105
DDE-p,p'	70.5		P	42 - 106
DDT-p,p'	60.0		P	42 - 107
Delta-BHC	90.8		P	67 - 144
Deltamethrin	12.1		F	15 - 149
Dichlobenil	76.4		P	46 - 117
Dicofol	63.4		P	34 - 114
Dieldrin	62.3		P	50 - 108
Endosulfan I	67.9		P	55 - 104
Endosulfan II	75.8		P	51 - 111
Endosulfan Sulfate	86.7		P	56 - 121
Endrin	62.5		P	10 - 106
Endrin Aldehyde	78.0		P	34 - 114
Endrin Ketone	94.2		P	63 - 177
Esfenvalerate	52.1		P	29 - 143
Ethalfluralin	86.6		P	46 - 96.0
Fenpropathrin	56.0		P	28 - 115
Gamma-BHC	77.3		P	65 - 121
Gamma-Chlordane	59.2		P	39 - 103
Heptachlor	56.0		P	39 - 94.0
Heptachlor Epoxide	92.5		P	54 - 104
Hexachlorobenzene	61.6		P	36 - 100
Kepone	124		P	10 - 225
Lambda-Cyhalothrin	41.4		P	10 - 135
Methoprene	41.0		P	10 - 109
Methoxychlor	64.4		P	52 - 112
MGK-264	71.6		P	44 - 117
Mirex	50.2		P	20 - 90.0
Oxychlordane	68.8		P	44 - 102
PCB-1016	69.4		P	45 - 107
PCB-1260	79.3		P	40 - 112
Permethrin	48.0		P	18 - 135
Phenothrin	37.3		P	10 - 102
Piperonyl Butoxide	79.2		P	28 - 156
Prallethrin	60.5		P	28 - 113
Tau-Fluvalinate	43.2		P	10 - 123
Tetramethrin	53.1		P	18 - 158
Trans-Nonachlor	77.1		P	39 - 104
Triclosan Methyl	64.3		P	54 - 108
Trifluralin	63.6		P	46 - 97.0

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P438886

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	74.4		P	52 - 117
Toxaphene	83.5		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P438624

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	119		P	40 - 150
AMPA	106		P	40 - 160
Endothall	92.3		P	40 - 160
Glufosinate	101		P	40 - 160
Glyphosate	94.4		P	40 - 160
Sucralose	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438625

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	91.8		P	40 - 150
Aldicarb	65.0		P	30 - 150
Aldicarb Sulfone	102		P	40 - 150
Aldicarb Sulfoxide	121		P	40 - 150
Carbaryl	71.2		P	40 - 150
Carbofuran	72.5		P	40 - 150
Methiocarb	73.2		P	40 - 150
Methomyl	89.4		P	40 - 150
Oxamyl	93.0		P	40 - 150
Propoxur	71.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	108		P	40 - 150
2,4,5-T	90.4		P	40 - 150
Acetaminophen	90.3		P	30 - 150
Acetamiprid	88.2		P	40 - 150
Afidopyropen	72.6		P	30 - 150
Bentazon	72.5		P	30 - 150
Benzovindiflupyr	86.6		P	40 - 150
Carbamazepine	87.4		P	40 - 150
Clothianidin	93.4		P	40 - 150
Dinotefuran	107		P	40 - 150
Diuron	84.5		P	40 - 150
Fenuron	108		P	40 - 150
Fluridone	90.9		P	40 - 150
Hydrocodone	95.4		P	40 - 150
Ibuprofen	70.8		P	40 - 150
Imazapyr	92.0		P	40 - 150
Imidacloprid	91.5		P	40 - 150
Linuron	86.1		P	40 - 150
Mandestrobin	97.7		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P438687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCPP	98.0		P	40 - 150
Naproxen	64.9		P	40 - 150
Primidone	85.6		P	40 - 150
Pyraclostrobin	84.0		P	40 - 150
Silvex	92.5		P	40 - 150
Thiamethoxam	96.3		P	40 - 150
Tolfenpyrad	48.7		P	30 - 150
Triclopyr	91.8		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P438936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.7		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P439247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.4		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P439287

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

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

Reference Method: SM 5310 B-2014
Batch ID: P438734

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455183	Chloride	100		P	90 - 110
2455512	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439139

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455183	Sulfate	100		P	90 - 110
2455512	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454540	Ammonia-N	97.8	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438842

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455265	Ammonia-N	95.8	96.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438759

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455139	Kjeldahl Nitrogen	100	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438727

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455265	NO2NO3-N	97.1	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438889

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455594	NO2NO3-N	96.5	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438835

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454962	Total-P	104	108	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P438743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455364	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	156	134	F/P	50 - 150
2455364	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	184	152	F/P	29 - 155

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P438743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455364	Acetochlor	91.7	83.7	P/P	60 - 124
2455364	Alachlor	111	111	P/P	54 - 122
2455364	Ametryn	116	111	P/P	51 - 208
2455364	Atrazine Desethyl	98.3	98.0	P/P	13 - 124
2455364	Avobenzone	206	178	F/P	35 - 187
2455364	Azinphos Methyl	129	144	P/P	43 - 276
2455364	Azoxystrobin	92.9	97.6	P/P	52 - 300
2455364	Bromacil	87.5	85.0	P/P	44 - 134
2455364	Butylate	69.9	62.4	P/P	23 - 82.0
2455364	Caffeine	126	119	P/P	10 - 277
2455364	Carbophenothion	129	114	P/P	47 - 135
2455364	Carfentrazone Ethyl	146	127	P/P	46 - 147
2455364	Chlorfenapyr	84.5	89.8	P/P	43 - 114
2455364	Chlorpyrifos Ethyl	121	119	P/P	47 - 124
2455364	Chlorpyrifos Methyl	66.7	79.4	P/P	60 - 135
2455364	Coumaphos	76.6	94.4	P/P	10 - 222
2455364	Cyanazine	134	126	P/P	10 - 257
2455364	Cyprodinil	76.8	96.6	P/P	42 - 148
2455364	Dechlorane 602	153	114	F/P	14 - 133
2455364	Dechlorane 603	146	98.5	P/P	18 - 191
2455364	Dechlorane Plus	126	88.0	P/P	23 - 154
2455364	Demeton	102	99.6	P/P	41 - 137
2455364	Diazinon	112	113	P/P	64 - 139
2455364	Difenoconazole	82.9	91.3	P/P	46 - 254
2455364	Dimethenamid	84.4	82.2	P/P	47 - 117
2455364	Dimethomorph	170	181	P/P	14 - 255
2455364	Disulfoton	101	97.4	P/P	52 - 130
2455364	Dithiopyr	76.4	77.7	P/P	40 - 121
2455364	EPTC	52.8	51.5	P/P	19 - 78.0
2455364	Ethion	107	104	P/P	12 - 124
2455364	Ethoprop	111	111	P/P	68 - 144
2455364	Etridiazole	60.4	55.8	P/P	26 - 96.0
2455364	Fenamiphos	127	118	P/P	41 - 129
2455364	Fenbuconazole	53.1	62.7	P/P	26 - 169
2455364	Fipronil	95.1	112	P/P	46 - 145
2455364	Fipronil Desulfinyl	58.8	60.9	P/P	47 - 136
2455364	Fipronil Sulfide	95.8	113	P/P	41 - 127
2455364	Fipronil Sulfone	53.3	67.5	P/P	35 - 133
2455364	Fluazifop-P-butyl	129	140	P/F	46 - 131
2455364	Fludioxonil	91.9	72.4	P/P	51 - 124
2455364	Flumioxazin	128	127	P/P	10 - 289
2455364	Flutolanil	119	97.8	P/P	34 - 130
2455364	Fluxapyroxad	131	175	P/P	10 - 197
2455364	Fonofos	99.7	112	P/P	42 - 131
2455364	Hexabromobenzene	155	134	P/P	47 - 178
2455364	Hexazinone	109	109	P/P	64 - 125
2455364	Imazalil	89.0	65.6	P/P	37 - 252
2455364	Iprodione	167	154	P/P	34 - 265
2455364	Loratadine	125	155	P/P	20 - 231
2455364	Malathion	115	121	P/P	34 - 164
2455364	Metalaxyl	86.6	85.2	P/P	49 - 125
2455364	Metolachlor	82.0	91.2	P/P	54 - 125

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P438743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455364	Metribuzin	126	122	P/P	51 - 139
2455364	Mevinphos	88.3	90.2	P/P	46 - 130
2455364	Molinate	83.8	76.0	P/P	39 - 93.0
2455364	Myclobutanil	101	85.8	P/P	50 - 130
2455364	Naled	18.6	19.8	P/P	10 - 150
2455364	Napropamide	98.1	69.1	P/P	10 - 109
2455364	Norflurazon	127	150	P/F	36 - 134
2455364	Octinoxate	271	223	F/F	18 - 170
2455364	Oxadiazon	50.1	56.3	P/P	43 - 112
2455364	Oxybenzone	184	153	F/P	33 - 154
2455364	Oxyfluorfen	132	105	P/P	62 - 154
2455364	Parathion Ethyl	114	96.5	P/P	65 - 120
2455364	Parathion Methyl	153	129	P/P	77 - 185
2455364	PBB-153	178	147	P/P	23 - 193
2455364	PBDE-47	160	136	F/P	31 - 139
2455364	PBDE-99	174	145	F/F	24 - 138
2455364	Pendimethalin	106	99.8	P/P	50 - 146
2455364	Pentabromotoluene	175	140	F/P	54 - 152
2455364	Phenytoin	115	110	P/P	10 - 157
2455364	Phorate	132	129	P/P	54 - 161
2455364	Prodiamine	54.0	57.9	P/P	29 - 160
2455364	Prometon	138	128	P/P	38 - 145
2455364	Prometryn	147	151	P/F	32 - 151
2455364	Pronamide	92.5	92.5	P/P	61 - 140
2455364	Propanil	106	105	P/P	50 - 147
2455364	Propargite	134	130	P/P	10 - 190
2455364	Propiconazole	113	140	P/P	30 - 146
2455364	Pyraflufen Ethyl	145	111	P/P	30 - 147
2455364	Pyridaben	172	183	P/P	15 - 195
2455364	Pyriproxyfen	98.8	114	P/P	31 - 218
2455364	Simazine	87.8	91.6	P/P	45 - 139
2455364	Stirophos	41.1	49.7	P/P	10 - 134
2455364	Sulfentrazone	67.5	97.7	P/P	53 - 186
2455364	Tebuconazole	129	129	P/P	10 - 133
2455364	Terbufos	116	122	P/P	65 - 151
2455364	Terbuthylazine	84.1	89.8	P/P	62 - 117
2455364	Tetradecachloro-m-terphenyl	267	213	F/P	10 - 260
2455364	Thiobencarb	83.0	81.9	P/P	48 - 122
2455364	Tri-o-cresyl Phosphate	177	154	F/F	32 - 151
2455364	Triadimefon	65.6	63.8	P/P	46 - 124
2455364	Tris(1-chloro-2-propyl) phosphate (TCPP)	54.2	53.0	P/P	51 - 154
2455364	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	59.2	55.0	P/F	59 - 147
2455364	Tris(2-chloroethyl) phosphate (TCEP)	65.8	62.7	P/F	65 - 156

Reference Method: EPA 8270E
Batch ID: P438886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455277	Aldrin	58.5	49.0	P/P	24 - 81.0
2455277	Alpha-BHC	78.9	75.0	P/P	65 - 110
2455277	Alpha-Chlordane	70.7	59.6	P/P	43 - 119
2455277	Beta-BHC	84.7	80.9	P/P	54 - 165

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P438886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455277	Beta-Cyfluthrin	74.8	77.4	P/P	27 - 165
2455277	Bifenthrin	50.0	56.3	P/P	17 - 117
2455277	Carbophenothion	72.0	50.7	P/P	21 - 108
2455277	Chlorothalonil	142	124	P/P	10 - 255
2455277	Cis-Nonachlor	56.1	45.7	P/P	34 - 98.0
2455277	Cypermethrin	70.3	70.1	P/P	25 - 143
2455277	Dacthal	81.1	81.6	P/P	55 - 139
2455277	DDD-p,p'	51.4	48.7	P/P	30 - 109
2455277	DDE-p,p'	74.1	67.7	P/P	35 - 106
2455277	DDT-p,p'	59.9	56.2	P/P	41 - 101
2455277	Delta-BHC	102	89.5	P/P	58 - 165
2455277	Deltamethrin	74.3	22.0	P/P	10 - 194
2455277	Dichlobenil	42.5	40.8	P/P	22 - 114
2455277	Dicofol	63.7	58.3	P/P	17 - 133
2455277	Dieldrin	56.4	55.0	P/P	45 - 129
2455277	Endosulfan I	75.5	67.5	P/P	49 - 104
2455277	Endosulfan II	59.9	55.3	P/P	37 - 117
2455277	Endosulfan Sulfate	77.1	73.3	P/P	38 - 128
2455277	Endrin	50.5	49.9	P/P	35 - 116
2455277	Endrin Aldehyde	60.5	47.9	P/P	19 - 108
2455277	Endrin Ketone	90.5	82.9	P/P	44 - 134
2455277	Esfenvalerate	87.9	108	P/P	27 - 176
2455277	Ethalfluralin	92.8	86.7	P/P	49 - 100
2455277	Fenpropathrin	65.8	62.1	P/P	34 - 117
2455277	Gamma-BHC	98.2	85.3	P/P	59 - 129
2455277	Gamma-Chlordane	62.2	61.6	P/P	33 - 107
2455277	Heptachlor	47.3	43.2	P/P	37 - 94.0
2455277	Heptachlor Epoxide	92.2	88.7	P/P	38 - 118
2455277	Hexachlorobenzene	61.5	61.4	P/P	35 - 97.0
2455277	Kepone	120	100	P/P	10 - 221
2455277	Lambda-Cyhalothrin	75.0	77.8	P/P	23 - 190
2455277	Methoprene	62.3	61.4	P/P	21 - 109
2455277	Methoxychlor	60.7	58.5	P/P	46 - 118
2455277	MGK-264	85.4	77.0	P/P	39 - 122
2455277	Mirex	70.7	64.3	P/P	25 - 90.0
2455277	Oxychlordane	66.7	59.5	P/P	42 - 100
2455277	Permethrin	71.6	78.0	P/P	33 - 181
2455277	Phenothrin	77.9	64.0	P/P	12 - 125
2455277	Piperonyl Butoxide	70.2	72.9	P/P	10 - 178
2455277	Prallethrin	54.8	60.7	P/P	24 - 122
2455277	Tau-Fluvalinate	81.3	99.7	P/P	13 - 151
2455277	Tetramethrin	60.7	63.4	P/P	16 - 172
2455277	Trans-Nonachlor	100	88.4	F/P	39 - 100
2455277	Triclosan Methyl	58.6	52.9	P/P	43 - 110
2455277	Trifluralin	60.8	61.7	P/P	45 - 94.0
2455361	PCB-1016	57.4	63.7	P/P	45 - 107
2455361	PCB-1260	78.7	88.3	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P438886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P438886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455361	Chlordane	71.3	77.0	P/P	43 - 123
2455361	Toxaphene	88.6	95.7	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P438624

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455247	Acesulfame K	116	115	P/P	40 - 150
2455247	AMPA	68.5	68.9	P/P	40 - 160
2455247	Endothall	95.6	80.9	P/P	40 - 160
2455247	Glufosinate	95.2	95.6	P/P	40 - 160
2455247	Glyphosate	55.7	41.5	P/P	40 - 160
2455247	Sucralose	100	99.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455118	3-Hydroxycarbofuran	89.8	76.4	P/P	40 - 150
2455118	Aldicarb	70.7	62.0	P/P	30 - 150
2455118	Aldicarb Sulfone	99.1	94.4	P/P	40 - 150
2455118	Aldicarb Sulfoxide	43.9	44.1	P/P	40 - 150
2455118	Carbaryl	69.3	63.9	P/P	40 - 150
2455118	Carbofuran	63.5	62.2	P/P	40 - 150
2455118	Methiocarb	58.4	58.1	P/P	40 - 150
2455118	Methomyl	85.4	82.5	P/P	40 - 150
2455118	Oxamyl	89.3	84.9	P/P	40 - 150
2455118	Propoxur	62.7	63.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455247	2,4-D	103	90.1	P/P	40 - 150
2455247	2,4,5-T	82.2	89.7	P/P	40 - 150
2455247	Acetaminophen	90.6	85.2	P/P	30 - 150
2455247	Acetamiprid	66.7	68.4	P/P	40 - 150
2455247	Afidopyropen	67.0	71.8	P/P	30 - 150
2455247	Bentazon	36.9	37.1	P/P	30 - 150
2455247	Benzovindiflupyr	79.8	78.7	P/P	40 - 150
2455247	Carbamazepine	70.9	69.5	P/P	40 - 150
2455247	Clothianidin	98.1	97.9	P/P	40 - 150
2455247	Dinotefuran	99.7	97.1	P/P	40 - 150
2455247	Diuron	67.6	66.0	P/P	40 - 150
2455247	Fenuron	77.9	90.2	P/P	40 - 150
2455247	Fluridone	79.6	81.4	P/P	40 - 150
2455247	Hydrocodone	85.5	83.2	P/P	40 - 150
2455247	Ibuprofen	69.9	63.0	P/P	40 - 150
2455247	Imazapyr	89.9	86.9	P/P	40 - 150
2455247	Imidacloprid	110	112	P/P	40 - 150
2455247	Linuron	77.3	67.2	P/P	40 - 150
2455247	Mandestrobin	87.4	88.6	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P438687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455247	MCPP	88.6	91.1	P/P	40 - 150
2455247	Naproxen	74.2	60.9	P/P	40 - 150
2455247	Primidone	94.2	96.9	P/P	40 - 150
2455247	Pyraclostrobin	78.1	74.2	P/P	40 - 150
2455247	Silvex	85.5	87.8	P/P	40 - 150
2455247	Thiamethoxam	91.5	93.4	P/P	40 - 150
2455247	Tolfenpyrad	48.6	48.8	P/P	30 - 150
2455247	Triclopyr	79.2	90.4	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454527	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P438734

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454741	Organic Carbon	98.7	99.6	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438672

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455345	Color (true)	0.449	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455109	Turbidity	0.727	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455183	Chloride	1.16	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455183	Sulfate	1.19	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454540	Ammonia-N	2.60	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438842

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455265	Ammonia-N	0.477	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438759

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455139	Kjeldahl Nitrogen	1.95	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438727

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455265	NO2NO3-N	1.22	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438889

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455594	NO2NO3-N	1.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454962	Total-P	3.10	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P438743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455364	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	15.2	Spike	P	0 - 30
2455364	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	19.0	Spike	P	0 - 35
2455364	Acetochlor	9.09	Spike	P	0 - 28
2455364	Alachlor	0.0134	Spike	P	0 - 30
2455364	Ametryn	4.56	Spike	P	0 - 32
2455364	Atrazine	2.01	Spike	P	0 - 33
2455364	Atrazine Desethyl	0.273	Spike	P	0 - 36
2455364	Avobenzone	14.8	Spike	P	0 - 35
2455364	Azinphos Methyl	11.1	Spike	P	0 - 62
2455364	Azoxystrobin	4.88	Spike	P	0 - 39
2455364	Bromacil	2.91	Spike	P	0 - 33
2455364	Butylate	11.3	Spike	P	0 - 51
2455364	Caffeine	4.57	Spike	P	0 - 100
2455364	Carbophenothion	12.7	Spike	P	0 - 34
2455364	Carfentrazone Ethyl	14.4	Spike	P	0 - 33
2455364	Chlorfenapyr	6.03	Spike	P	0 - 28
2455364	Chlorpyrifos Ethyl	1.60	Spike	P	0 - 31
2455364	Chlorpyrifos Methyl	17.5	Spike	P	0 - 27
2455364	Coumaphos	20.8	Spike	P	0 - 62
2455364	Cyanazine	5.84	Spike	P	0 - 48
2455364	Cyprodinil	22.9	Spike	P	0 - 29
2455364	Dechlorane 602	28.6	Spike	P	0 - 60
2455364	Dechlorane 603	38.5	Spike	P	0 - 40
2455364	Dechlorane Plus	35.6	Spike	P	0 - 38
2455364	Demeton	2.21	Spike	P	0 - 33
2455364	Diazinon	0.738	Spike	P	0 - 32
2455364	Difenoconazole	9.65	Spike	P	0 - 71
2455364	Dimethenamid	2.73	Spike	P	0 - 60
2455364	Dimethomorph	6.14	Spike	P	0 - 61
2455364	Disulfoton	4.01	Spike	P	0 - 30
2455364	Dithiopyr	1.71	Spike	P	0 - 28
2455364	EPTC	2.46	Spike	P	0 - 56
2455364	Ethion	2.92	Spike	P	0 - 79
2455364	Ethoprop	0.454	Spike	P	0 - 31
2455364	Etridiazole	7.88	Spike	P	0 - 43
2455364	Fenamiphos	7.84	Spike	P	0 - 43
2455364	Fenbuconazole	16.6	Spike	P	0 - 79

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P438743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455364	Fipronil	16.5	Spike	P	0 - 46
2455364	Fipronil Desulfinyl	3.60	Spike	P	0 - 36
2455364	Fipronil Sulfide	15.5	Spike	P	0 - 34
2455364	Fipronil Sulfone	19.4	Spike	P	0 - 47
2455364	Fluazifop-P-butyl	8.18	Spike	P	0 - 38
2455364	Fludioxonil	23.8	Spike	P	0 - 29
2455364	Flumioxazin	0.873	Spike	P	0 - 63
2455364	Flutolanil	19.2	Spike	P	0 - 36
2455364	Fluxapyroxad	28.4	Spike	P	0 - 65
2455364	Fonofos	11.6	Spike	P	0 - 35
2455364	Hexabromobenzene	14.6	Spike	P	0 - 41
2455364	Hexazinone	0.420	Spike	P	0 - 31
2455364	Imazalil	30.3	Spike	P	0 - 52
2455364	Iprodione	8.29	Spike	P	0 - 49
2455364	Loratadine	21.6	Spike	P	0 - 59
2455364	Malathion	4.96	Spike	P	0 - 77
2455364	Metalaxyl	1.58	Spike	P	0 - 76
2455364	Metolachlor	9.89	Spike	P	0 - 29
2455364	Metribuzin	3.14	Spike	P	0 - 51
2455364	Mevinphos	2.07	Spike	P	0 - 31
2455364	Molinate	9.80	Spike	P	0 - 39
2455364	Myclobutanil	16.3	Spike	P	0 - 34
2455364	Naled	6.62	Spike	P	0 - 37
2455364	Napropamide	34.6	Spike	P	0 - 100
2455364	Norflurazon	16.7	Spike	P	0 - 54
2455364	Octinoxate	19.5	Spike	P	0 - 35
2455364	Oxadiazon	8.05	Spike	P	0 - 34
2455364	Oxybenzone	17.9	Spike	P	0 - 35
2455364	Oxyfluorfen	23.4	Spike	P	0 - 28
2455364	Parathion Ethyl	16.6	Spike	P	0 - 31
2455364	Parathion Methyl	16.9	Spike	P	0 - 29
2455364	PBB-153	19.5	Spike	P	0 - 49
2455364	PBDE-47	16.3	Spike	P	0 - 36
2455364	PBDE-99	17.6	Spike	P	0 - 46
2455364	Pendimethalin	5.97	Spike	P	0 - 31
2455364	Pentabromotoluene	22.3	Spike	F	0 - 16
2455364	Phenytoin	4.37	Spike	P	0 - 100
2455364	Phorate	1.83	Spike	P	0 - 36
2455364	Prodiamine	6.95	Spike	P	0 - 68
2455364	Prometon	7.48	Spike	P	0 - 35
2455364	Prometryn	2.71	Spike	P	0 - 33
2455364	Pronamide	0.0135	Spike	P	0 - 24
2455364	Propanil	0.552	Spike	P	0 - 28
2455364	Propargite	3.20	Spike	P	0 - 53
2455364	Propiconazole	21.8	Spike	P	0 - 44
2455364	Pyraflufen Ethyl	26.6	Spike	P	0 - 61
2455364	Pyridaben	6.42	Spike	P	0 - 43
2455364	Pyriproxyfen	14.3	Spike	P	0 - 82
2455364	Simazine	4.27	Spike	P	0 - 29
2455364	Stirophos	18.9	Spike	P	0 - 100
2455364	Sulfentrazone	36.5	Spike	P	0 - 64

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P438743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455364	Tebuconazole	0.230	Spike	P	0 - 76
2455364	Terbufos	5.33	Spike	P	0 - 29
2455364	Terbuthylazine	6.54	Spike	P	0 - 28
2455364	Tetradecachloro-m-terphenyl	22.4	Spike	P	0 - 42
2455364	Thiobencarb	1.34	Spike	P	0 - 26
2455364	Tri-o-cresyl Phosphate	14.0	Spike	P	0 - 24
2455364	Triadimefon	2.75	Spike	P	0 - 40
2455364	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.88	Spike	P	0 - 30
2455364	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	7.04	Spike	P	0 - 22
2455364	Tris(2-chloroethyl) phosphate (TCEP)	4.74	Spike	P	0 - 15

Reference Method: EPA 8270E
Batch ID: P438886

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455277	Aldrin	17.5	Spike	P	0 - 41
2455277	Alpha-BHC	5.07	Spike	P	0 - 25
2455277	Alpha-Chlordane	17.1	Spike	P	0 - 32
2455277	Beta-BHC	4.55	Spike	P	0 - 33
2455277	Beta-Cyfluthrin	3.34	Spike	P	0 - 43
2455277	Bifenthrin	11.8	Spike	P	0 - 52
2455277	Carbophenothion	34.6	Spike	F	0 - 30
2455277	Chlorothalonil	13.4	Spike	P	0 - 82
2455277	Cis-Nonachlor	20.5	Spike	P	0 - 33
2455277	Cypermethrin	0.274	Spike	P	0 - 51
2455277	Dacthal	0.557	Spike	P	0 - 27
2455277	DDD-p,p'	5.54	Spike	P	0 - 39
2455277	DDE-p,p'	9.00	Spike	P	0 - 31
2455277	DDT-p,p'	6.46	Spike	P	0 - 29
2455277	Delta-BHC	13.0	Spike	P	0 - 35
2455277	Deltamethrin	109	Spike	F	0 - 100
2455277	Dichlobenil	4.25	Spike	P	0 - 40
2455277	Dicofol	8.93	Spike	P	0 - 37
2455277	Dieldrin	2.51	Spike	P	0 - 27
2455277	Endosulfan I	11.3	Spike	P	0 - 23
2455277	Endosulfan II	7.96	Spike	P	0 - 34
2455277	Endosulfan Sulfate	5.08	Spike	P	0 - 36
2455277	Endrin	1.24	Spike	P	0 - 45
2455277	Endrin Aldehyde	23.3	Spike	P	0 - 76
2455277	Endrin Ketone	8.78	Spike	P	0 - 43
2455277	Esfenvalerate	20.7	Spike	P	0 - 51
2455277	Ethalfluralin	6.86	Spike	P	0 - 22
2455277	Fenpropathrin	5.65	Spike	P	0 - 49
2455277	Gamma-BHC	14.1	Spike	P	0 - 28
2455277	Gamma-Chlordane	0.902	Spike	P	0 - 40
2455277	Heptachlor	9.17	Spike	P	0 - 29
2455277	Heptachlor Epoxide	3.88	Spike	P	0 - 33
2455277	Hexachlorobenzene	0.0864	Spike	P	0 - 36
2455277	Kepone	17.9	Spike	P	0 - 85
2455277	Lambda-Cyhalothrin	3.68	Spike	P	0 - 55

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P438886

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455277	Methoprene	1.56	Spike	P	0 - 53
2455277	Methoxychlor	3.69	Spike	P	0 - 50
2455277	MGK-264	10.3	Spike	P	0 - 43
2455277	Mirex	9.48	Spike	P	0 - 40
2455277	Oxychlordane	11.4	Spike	P	0 - 31
2455277	Permethrin	8.63	Spike	P	0 - 50
2455277	Phenothrin	19.5	Spike	P	0 - 58
2455277	Piperonyl Butoxide	3.76	Spike	P	0 - 100
2455277	Prallethrin	10.1	Spike	P	0 - 39
2455277	Tau-Fluvalinate	20.4	Spike	P	0 - 54
2455277	Tetramethrin	4.27	Spike	P	0 - 51
2455277	Trans-Nonachlor	12.8	Spike	P	0 - 39
2455277	Triclosan Methyl	10.3	Spike	P	0 - 31
2455277	Trifluralin	1.56	Spike	P	0 - 22
2455361	PCB-1016	10.4	Spike	P	0 - 25
2455361	PCB-1260	11.5	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P438886

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455361	Chlordane	7.71	Spike	P	0 - 28
2455361	Toxaphene	7.67	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P438624

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455247	Acesulfame K	1.02	Spike	P	0 - 30
2455247	AMPA	0.572	Spike	P	0 - 30
2455247	Endothall	16.7	Spike	P	0 - 30
2455247	Glufosinate	0.475	Spike	P	0 - 30
2455247	Glyphosate	29.3	Spike	P	0 - 30
2455247	Sucralose	0.0924	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455118	3-Hydroxycarbofuran	16.1	Spike	P	0 - 30
2455118	Aldicarb	13.1	Spike	P	0 - 30
2455118	Aldicarb Sulfone	4.85	Spike	P	0 - 30
2455118	Aldicarb Sulfoxide	0.503	Spike	P	0 - 30
2455118	Carbaryl	8.02	Spike	P	0 - 30
2455118	Carbofuran	2.04	Spike	P	0 - 30
2455118	Methiocarb	0.450	Spike	P	0 - 30
2455118	Methomyl	3.46	Spike	P	0 - 30
2455118	Oxamyl	5.02	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P438625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455118	Propoxur	0.809	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455247	2,4-D	13.4	Spike	P	0 - 30
2455247	2,4,5-T	8.78	Spike	P	0 - 30
2455247	Acetaminophen	6.18	Spike	P	0 - 30
2455247	Acetamiprid	2.56	Spike	P	0 - 30
2455247	Afidopyropen	6.99	Spike	P	0 - 30
2455247	Bentazon	0.473	Spike	P	0 - 30
2455247	Benzovindiflupyr	1.38	Spike	P	0 - 30
2455247	Carbamazepine	1.87	Spike	P	0 - 30
2455247	Clothianidin	0.182	Spike	P	0 - 30
2455247	Dinotefuran	2.65	Spike	P	0 - 30
2455247	Diuron	2.30	Spike	P	0 - 30
2455247	Fenuron	14.7	Spike	P	0 - 30
2455247	Fluridone	2.17	Spike	P	0 - 30
2455247	Hydrocodone	2.82	Spike	P	0 - 30
2455247	Ibuprofen	10.3	Spike	P	0 - 30
2455247	Imazapyr	3.44	Spike	P	0 - 30
2455247	Imidacloprid	1.43	Spike	P	0 - 30
2455247	Linuron	13.9	Spike	P	0 - 30
2455247	Mandestrobin	1.39	Spike	P	0 - 30
2455247	MCPP	2.79	Spike	P	0 - 30
2455247	Naproxen	19.6	Spike	P	0 - 30
2455247	Primidone	2.83	Spike	P	0 - 30
2455247	Pyraclostrobin	5.18	Spike	P	0 - 30
2455247	Silvex	2.65	Spike	P	0 - 30
2455247	Thiamethoxam	2.03	Spike	P	0 - 30
2455247	Tolfenpyrad	0.260	Spike	P	0 - 30
2455247	Triclopyr	13.2	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P438936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454527	Total Alkalinity	0.165	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P439247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455264	TDS	4.16	Sample	P	0 - 10

Quality Assurance Report
Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454527	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P438734

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454741	Organic Carbon	0.740	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2455355
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	50.4	P	30 - 160

Lab Sample ID: 2455356
Field Sample ID: FB_12062023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	75.7	P	30 - 160

Lab Sample ID: 2455358
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	57.6	P	30 - 160
EPA 8321B	Diuron-d6	56.6	P	30 - 160
EPA 8321B	Endothall-d6	97.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	94.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.4	P	30 - 160
EPA 8321B	Primidone-d5	90.9	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2455359
Field Sample ID: FB_12062023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.9	P	30 - 160
EPA 8321B	Diuron-d6	71.6	P	30 - 160
EPA 8321B	Endothall-d6	92.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.1	P	30 - 160
EPA 8321B	Primidone-d5	92.8	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	30 - 160

Lab Sample ID: 2455360
Field Sample ID: G1SW0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	65.6	P	37 - 129
EPA 8270E	Decachlorobiphenyl	85.9	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	40.3	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	51.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	93.6	P	28 - 102
EPA 8276	PCNB	110	P	49 - 115

Lab Sample ID: 2455361
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	53.0	P	37 - 129

Quality Assurance Report
Surrogates

Lab Sample ID: 2455361
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	50.9	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	41.7	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	42.3	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	54.7	P	28 - 102
EPA 8276	PCNB	95.5	P	49 - 115

Lab Sample ID: 2455362
Field Sample ID: FB_12062023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	55.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	59.6	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	46.6	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	51.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	81.8	P	28 - 102
EPA 8276	PCNB	96.5	P	49 - 115

Lab Sample ID: 2455364
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	112	P	20 - 200
EPA 8270E	Simazine-d10	116	P	58 - 137
EPA 8270E	Terbufos-d10	112	P	50 - 134
EPA 8270E	Terphenyl-d14	88.2	P	44 - 134

Lab Sample ID: 2455365
Field Sample ID: FB_12062023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	84.7	P	20 - 200
EPA 8270E	Simazine-d10	59.8	P	58 - 137
EPA 8270E	Terbufos-d10	77.2	P	50 - 134
EPA 8270E	Terphenyl-d14	88.7	P	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A123079
Included Lab Sample IDs: 2455345, 2455346, 2455347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A123087
Included Lab Sample IDs: 2455345, 2455346, 2455347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	102	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A123094
Included Lab Sample IDs: 2455358, 2455359

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	113	117	P/P	60 - 160
Endothall	93.3	90.8	P/P	60 - 160
Glufosinate	99.3	102	P/P	60 - 160
Glyphosate	97.0	97.5	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123103
Included Lab Sample IDs: 2455350

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123112
Included Lab Sample IDs: 2455348, 2455349

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

Reference Method: SM 5310 B-2014
Run ID: A123116
Included Lab Sample IDs: 2455348, 2455349, 2455350

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.9	101	P/P	85 - 115

Reference Method: EPA 8321B
Run ID: A123117
Included Lab Sample IDs: 2455358, 2455359

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	117	115	P/P	60 - 160
Sucralose	106	103	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123118
Included Lab Sample IDs: 2455345, 2455346, 2455347

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123162
Included Lab Sample IDs: 2455348, 2455349

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.8	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A123171
Included Lab Sample IDs: 2455358, 2455359

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.8	110	P/P	50 - 150
2,4,5-T	99.8	90.7	P/P	50 - 150
3-Hydroxycarbofuran	112	106	P/P	60 - 150
Acetaminophen	108	100	P/P	60 - 160
Acetamiprid	108	107	P/P	50 - 150
Afidopyropen	93.0	101	P/P	50 - 150
Aldicarb	101	102	P/P	60 - 150
Aldicarb Sulfone	106	106	P/P	50 - 150
Aldicarb Sulfoxide	106	107	P/P	50 - 150
Bentazon	95.4	93.5	P/P	50 - 160
Benzovindiflupyr	104	104	P/P	50 - 150
Carbamazepine	111	109	P/P	60 - 150
Carbaryl	108	112	P/P	60 - 150
Carbofuran	109	114	P/P	50 - 150
Clothianidin	111	105	P/P	60 - 150
Dinotefuran	108	110	P/P	50 - 150
Diuron	111	109	P/P	60 - 160
Fenuron	106	106	P/P	60 - 150
Fluridone	108	112	P/P	60 - 160
Hydrocodone	111	109	P/P	60 - 150
Ibuprofen	116	86.2	P/P	50 - 160
Imazapyr	84.7	96.0	P/P	50 - 150
Imidacloprid	102	102	P/P	60 - 150
Linuron	106	101	P/P	60 - 150
Mandestrobin	111	110	P/P	50 - 150
MCPP	98.2	101	P/P	50 - 150
Methiocarb	108	106	P/P	50 - 150
Methomyl	104	105	P/P	50 - 150
Naproxen	82.8	69.6	P/P	50 - 160
Oxamyl	105	108	P/P	50 - 150
Primidone	98.9	100	P/P	60 - 150
Propoxur	119	112	P/P	50 - 150
Pyraclostrobin	106	105	P/P	60 - 150
Silvex	102	102	P/P	50 - 150
Thiamethoxam	114	113	P/P	50 - 150
Tolfenpyrad	96.4	97.4	P/P	60 - 150
Triclopyr	91.5	109	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123188
Included Lab Sample IDs: 2455350

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123193
Included Lab Sample IDs: 2455348, 2455349, 2455350

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123196
Included Lab Sample IDs: 2455349

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123197
Included Lab Sample IDs: 2455348, 2455350

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	95.2	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A123207
Included Lab Sample IDs: 2455345, 2455346, 2455347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.3	98.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A123207
Included Lab Sample IDs: 2455345, 2455346, 2455347

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123254
Included Lab Sample IDs: 2455345, 2455346, 2455347

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

Reference Method: EPA 8270E
Run ID: A123258
Included Lab Sample IDs: 2455360, 2455361, 2455362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	98.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123370
Included Lab Sample IDs: 2455360, 2455361, 2455362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.3		P	80 - 120
Alpha-BHC	95.6		P	80 - 120
Alpha-Chlordane	98.0		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	98.1		P	80 - 120
Bifenthrin	89.5		P	80 - 120
Carbophenothion	96.8		P	80 - 120
Chlorothalonil	102		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	99.3		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	94.0		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	96.2		P	80 - 120
Delta-BHC	98.8		P	80 - 120
Deltamethrin	100		P	80 - 120
Dichlobenil	99.5		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	97.2		P	80 - 120
Endosulfan I	99.8		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	96.4		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	102		P	80 - 120
Endrin Ketone	102		P	80 - 120
Esfenvalerate	97.5		P	80 - 120
Ethalfluralin	104		P	80 - 120
Fenpropathrin	90.1		P	80 - 120
Gamma-BHC	106		P	80 - 120
Gamma-Chlordane	107		P	80 - 120
Heptachlor	96.9		P	80 - 120
Heptachlor Epoxide	110		P	80 - 120
Hexachlorobenzene	103		P	80 - 120
Kepone	104		P	80 - 120
Lambda-Cyhalothrin	99.5		P	80 - 120
Methoprene	99.7		P	80 - 120
Methoxychlor	90.4		P	80 - 120
MGK-264	107		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	98.6		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	92.3		P	80 - 120
Prallethrin	98.8		P	80 - 120
Tau-Fluvalinate	97.1		P	80 - 120
Tetramethrin	97.3		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	94.5		P	80 - 120
Trifluralin	103		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8276
Run ID: A123381
Included Lab Sample IDs: 2455360, 2455361, 2455362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	104		P	80 - 120
Chlordane	99.1		P	80 - 120
Toxaphene	107		P	80 - 120
Toxaphene	98.1		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123410
Included Lab Sample IDs: 2455364, 2455365

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.6		P	80 - 120
Alachlor	96.3		P	80 - 120
Ametryn	108		P	80 - 120
Atrazine	94.5		P	80 - 120
Atrazine Desethyl	113		P	80 - 120
Azinphos Methyl	116		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	107		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	109		P	80 - 120
Chlorfenapyr	99.5		P	80 - 120
Chlorpyrifos Ethyl	93.9		P	80 - 120
Chlorpyrifos Methyl	118		P	80 - 120
Coumaphos	91.4		P	80 - 120
Cyanazine	105		P	80 - 120
Cyprodinil	112		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	119		P	80 - 120
Difenoconazole	87.6		P	80 - 120
Dimethenamid	94.5		P	80 - 120
Dimethomorph	87.0		P	80 - 120
Disulfoton	118		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	99.9		P	80 - 120
Ethion	93.5		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	99.4		P	80 - 120
Fenamiphos	90.5		P	80 - 120
Fenbuconazole	82.7		P	80 - 120
Fipronil	109		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	119		P	80 - 120
Fipronil Sulfone	97.8		P	80 - 120
Fluazifop-P-butyl	112		P	80 - 120
Fludioxonil	87.4		P	80 - 120
Flumioxazin	83.4		P	80 - 120
Flutolanil	114		P	80 - 120
Fluxapyroxad	167*		F	80 - 120
Fonofos	110		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123410
Included Lab Sample IDs: 2455364, 2455365

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexazinone	93.8		P	80 - 120
Imazalil	182*		F	80 - 120
Iprodione	95.4		P	80 - 120
Loratadine	80.8		P	80 - 120
Malathion	93.8		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	87.4		P	80 - 120
Molinate	95.3		P	80 - 120
Myclobutanil	86.1		P	80 - 120
Naled	103		P	80 - 120
Napropamide	116		P	80 - 120
Norflurazon	87.8		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	116		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	110		P	80 - 120
Pendimethalin	115		P	80 - 120
Phenytoin	88.2		P	80 - 120
Phorate	107		P	80 - 120
Prodiamine	114		P	80 - 120
Prometon	99.6		P	80 - 120
Prometryn	117		P	80 - 120
Pronamide	96.7		P	80 - 120
Propanil	97.4		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	86.6		P	80 - 120
Pyraflufen Ethyl	109		P	80 - 120
Pyridaben	99.0		P	80 - 120
Pyriproxyfen	173*		F	80 - 120
Simazine	94.9		P	80 - 120
Stirophos	102		P	80 - 120
Sulfentrazone	212*		F	80 - 120
Tebuconazole	98.1		P	80 - 120
Terbufos	109		P	80 - 120
Terbuthylazine	87.5		P	80 - 120
Thiobencarb	105		P	80 - 120
Triadimefon	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123421
Included Lab Sample IDs: 2455364

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	80.3		P	80 - 120
Carfentrazone Ethyl	82.4		P	80 - 120
Chlorpyrifos Methyl	98.3		P	80 - 120
Cyprodinil	97.9		P	80 - 120
Fipronil	93.7		P	80 - 120
Fipronil Sulfide	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123421
Included Lab Sample IDs: 2455364

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluazifop-P-butyl	89.3		P	80 - 120
Oxadiazon	103		P	80 - 120
Pyraflufen Ethyl	73.9*		F	80 - 120
Pyridaben	127*		F	80 - 120

Reference Method: EPA 8270E
Run ID: A123425
Included Lab Sample IDs: 2455362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123463
Included Lab Sample IDs: 2455364, 2455365

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	98.7		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.3		P	80 - 120
Avobenzone	95.5		P	80 - 120
Dechlorane 602	100		P	80 - 120
Dechlorane 603	95.1		P	80 - 120
Dechlorane Plus	94.7		P	80 - 120
Hexabromobenzene	94.0		P	80 - 120
Octinoxate	96.1		P	80 - 120
Oxybenzone	98.4		P	80 - 120
PBB-153	88.9		P	80 - 120
PBDE-47	113		P	80 - 120
PBDE-99	95.4		P	80 - 120
Pentabromotoluene	96.9		P	80 - 120
Tetradecachloro-m-terphenyl	87.1		P	80 - 120
Tri-o-cresyl Phosphate	98.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.6		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	99.7		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	99.3				0.449	
EPA 180.1 Rev. 2.0	Turbidity	104				0.727	
EPA 300.0 Rev. 2.1	Chloride	103	100	101		1.16	
	Sulfate	101	100	100		1.19	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	97.8	101			2.60
	Ammonia-N	97.4	95.8	96.4			0.477
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	100	104			1.95
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	97.1	98.6			1.22
	NO2NO3-N	97.5	96.5	97.5			1.03
EPA 365.1 Rev. 2.0	Total-P	106	104	108			3.10
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	90.1	156	134			15.2
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	127	184	152			19.0
	Acetochlor	95.8	91.7	83.7			9.09
	Alachlor	104	111	111			0.0134
	Aldrin	40.8	58.5	49.0			17.5
	Alpha-BHC	78.5	78.9	75.0			5.07
	Alpha-Chlordane	61.8	70.7	59.6			17.1
	Ametryn	141	116	111			4.56
	Atrazine	109					2.01
	Atrazine Desethyl	116	98.3	98.0			0.273
	Avobenzone	150	206	178			14.8
	Azinphos Methyl	201	129	144			11.1
	Azoxystrobin	148	92.9	97.6			4.88
	Beta-BHC	84.4	84.7	80.9			4.55
	Beta-Cyfluthrin	50.7	74.8	77.4			3.34
	Bifenthrin	31.6	50.0	56.3			11.8
	Bromacil	107	87.5	85.0			2.91
	Butylate	70.0	69.9	62.4			11.3
	Caffeine	116	126	119			4.57
	Carbophenothion	129	129	114			12.7
	Carbophenothion	61.9	72.0	50.7			34.6
	Carfentrazone Ethyl	137	146	127			14.4
	Chlorfenapyr	87.2	84.5	89.8			6.03
	Chlorothalonil	87.4	142	124			13.4
	Chlorpyrifos Ethyl	73.0	121	119			1.60
	Chlorpyrifos Methyl	89.3	66.7	79.4			17.5
	Cis-Nonachlor	57.7	56.1	45.7			20.5
	Coumaphos	101	76.6	94.4			20.8
	Cyanazine	179	134	126			5.84
	Cypermethrin	45.7	70.3	70.1			0.274
	Cyprodinil	109	76.8	96.6			22.9
	Dacthal	83.1	81.1	81.6			0.557
	DDD-p,p'	59.4	51.4	48.7			5.54
	DDE-p,p'	70.5	74.1	67.7			9.00
	DDT-p,p'	60.0	59.9	56.2			6.46
	Dechlorane 602	71.5	153	114			28.6
	Dechlorane 603	137	146	98.5			38.5
	Dechlorane Plus	111	126	88.0			35.6
	Delta-BHC	90.8	102	89.5			13.0
	Deltamethrin	12.1	74.3	22.0			109
	Demeton	127	102	99.6			2.21

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Diazinon	129	112	113			0.738
	Dichlobenil	76.4	42.5	40.8			4.25
	Dicofol	63.4	63.7	58.3			8.93
	Dieldrin	62.3	56.4	55.0			2.51
	Difenoconazole	61.8	82.9	91.3			9.65
	Dimethenamid	92.0	84.4	82.2			2.73
	Dimethomorph	169	170	181			6.14
	Disulfoton	127	101	97.4			4.01
	Dithiopyr	115	76.4	77.7			1.71
	Endosulfan I	67.9	75.5	67.5			11.3
	Endosulfan II	75.8	59.9	55.3			7.96
	Endosulfan Sulfate	86.7	77.1	73.3			5.08
	Endrin	62.5	50.5	49.9			1.24
	Endrin Aldehyde	78.0	60.5	47.9			23.3
	Endrin Ketone	94.2	90.5	82.9			8.78
	EPTC	57.7	52.8	51.5			2.46
	Esfenvalerate	52.1	87.9	108			20.7
	Ethalfluralin	86.6	92.8	86.7			6.86
	Ethion	35.3	107	104			2.92
	Ethoprop	130	111	111			0.454
	Etridiazole	61.8	60.4	55.8			7.88
	Fenamiphos	114	127	118			7.84
	Fenbuconazole	82.4	53.1	62.7			16.6
	Fenpropathrin	56.0	65.8	62.1			5.65
	Fipronil	101	95.1	112			16.5
	Fipronil Desulfinyl	109	58.8	60.9			3.60
	Fipronil Sulfide	114	95.8	113			15.5
	Fipronil Sulfone	101	53.3	67.5			19.4
	Fluazifop-P-butyl	139	129	140			8.18
	Fludioxonil	82.1	91.9	72.4			23.8
	Flumioxazin	107	128	127			0.873
	Flutolanil	82.4	119	97.8			19.2
	Fluxapyroxad	99.0	131	175			28.4
	Fonofos	81.4	99.7	112			11.6
	Gamma-BHC	77.3	98.2	85.3			14.1
	Gamma-Chlordane	59.2	62.2	61.6			0.902
	Heptachlor	56.0	47.3	43.2			9.17
	Heptachlor Epoxide	92.5	92.2	88.7			3.88
	Hexabromobenzene	134	155	134			14.6
	Hexachlorobenzene	61.6	61.5	61.4			0.0864
	Hexazinone	108	109	109			0.420
	Imazalil	88.4	89.0	65.6			30.3
	Iprodione	196	167	154			8.29
	Kepone	124	120	100			17.9
	Lambda-Cyhalothrin	41.4	75.0	77.8			3.68
	Loratadine	187	125	155			21.6
	Malathion	146	115	121			4.96
	Metalaxyl	108	86.6	85.2			1.58
	Methoprene	41.0	62.3	61.4			1.56
	Methoxychlor	64.4	60.7	58.5			3.69
	Metolachlor	115	82.0	91.2			9.89
	Metribuzin	135	126	122			3.14
	Mevinphos	111	88.3	90.2			2.07
	MGK-264	71.6	85.4	77.0			10.3

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Mirex	50.2	70.7	64.3			9.48
	Molinate	91.2	83.8	76.0			9.80
	Myclobutanil	92.9	101	85.8			16.3
	Naled	23.7	18.6	19.8			6.62
	Napropamide	62.8	98.1	69.1			34.6
	Norflurazon	127	127	150			16.7
	Octinoxate	172	271	223			19.5
	Oxadiazon	85.0	50.1	56.3			8.05
	Oxybenzone	146	184	153			17.9
	Oxychlordane	68.8	66.7	59.5			11.4
	Oxyfluorfen	109	132	105			23.4
	Parathion Ethyl	127	114	96.5			16.6
	Parathion Methyl	156	153	129			16.9
	PBB-153	137	178	147			19.5
	PBDE-47	90.5	160	136			16.3
	PBDE-99	108	174	145			17.6
	PCB-1016	69.4	57.4	63.7			10.4
	PCB-1260	79.3	78.7	88.3			11.5
	Pendimethalin	137	106	99.8			5.97
	Pentabromotoluene	142	175	140			22.3
	Permethrin	48.0	71.6	78.0			8.63
	Phenothrin	37.3	77.9	64.0			19.5
	Phenytoin	51.6	115	110			4.37
	Phorate	158	132	129			1.83
	Piperonyl Butoxide	79.2	70.2	72.9			3.76
	Prallethrin	60.5	54.8	60.7			10.1
	Prodiamine	67.7	54.0	57.9			6.95
	Prometon	93.3	138	128			7.48
	Prometryn	120	147	151			2.71
	Pronamide	110	92.5	92.5			0.0135
	Propanil	115	106	105			0.552
	Propargite	73.3	134	130			3.20
	Propiconazole	93.6	113	140			21.8
	Pyraflufen Ethyl	135	145	111			26.6
	Pyridaben	86.0	172	183			6.42
	Pyriproxyfen	95.1	98.8	114			14.3
	Simazine	113	87.8	91.6			4.27
	Stirophos	35.3	41.1	49.7			18.9
	Sulfentrazone	119	67.5	97.7			36.5
	Tau-Fluvalinate	43.2	81.3	99.7			20.4
	Tebuconazole	56.6	129	129			0.230
	Terbufos	141	116	122			5.33
	Terbuthylazine	99.3	84.1	89.8			6.54
	Tetradecachloro-m-terphenyl	222	267	213			22.4
	Tetramethrin	53.1	60.7	63.4			4.27
	Thiobencarb	108	83.0	81.9			1.34
	Trans-Nonachlor	77.1	100	88.4			12.8
	Tri-o-cresyl Phosphate	154	177	154			14.0
	Triadimefon	89.4	65.6	63.8			2.75
	Triclosan Methyl	64.3	58.6	52.9			10.3
	Trifluralin	63.6	60.8	61.7			1.56
	Tris(1-chloro-2-propyl) phosphate (TCPP)	60.1	54.2	53.0			1.88

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	60.5	59.2	55.0			7.04
	Tris(2-chloroethyl) phosphate (TCEP)	64.1	65.8	62.7			4.74
EPA 8276	Chlordane	74.4	71.3	77.0			7.71
	Toxaphene	83.5	88.6	95.7			7.67
EPA 8321B	2,4-D	108	103	90.1			13.4
	2,4,5-T	90.4	82.2	89.7			8.78
	3-Hydroxycarbofuran	91.8	89.8	76.4			16.1
	Acesulfame K	119	116	115			1.02
	Acetaminophen	90.3	90.6	85.2			6.18
	Acetamiprid	88.2	66.7	68.4			2.56
	Afidopyropen	72.6	67.0	71.8			6.99
	Aldicarb	65.0	70.7	62.0			13.1
	Aldicarb Sulfone	102	99.1	94.4			4.85
	Aldicarb Sulfoxide	121	43.9	44.1			0.503
	AMPA	106	68.5	68.9			0.572
	Bentazon	72.5	36.9	37.1			0.473
	Benzovindiflupyr	86.6	79.8	78.7			1.38
	Carbamazepine	87.4	70.9	69.5			1.87
	Carbaryl	71.2	69.3	63.9			8.02
	Carbofuran	72.5	63.5	62.2			2.04
	Clothianidin	93.4	98.1	97.9			0.182
	Dinotefuran	107	99.7	97.1			2.65
	Diuron	84.5	67.6	66.0			2.30
	Endothall	92.3	95.6	80.9			16.7
	Fenuron	108	77.9	90.2			14.7
	Fluridone	90.9	79.6	81.4			2.17
	Glufosinate	101	95.2	95.6			0.475
	Glyphosate	94.4	55.7	41.5			29.3
	Hydrocodone	95.4	85.5	83.2			2.82
	Ibuprofen	70.8	69.9	63.0			10.3
	Imazapyr	92.0	89.9	86.9			3.44
	Imidacloprid	91.5	110	112			1.43
	Linuron	86.1	77.3	67.2			13.9
	Mandestrobin	97.7	87.4	88.6			1.39
	MCPP	98.0	88.6	91.1			2.79
	Methiocarb	73.2	58.4	58.1			0.450
	Methomyl	89.4	85.4	82.5			3.46
	Naproxen	64.9	74.2	60.9			19.6
	Oxamyl	93.0	89.3	84.9			5.02
	Primidone	85.6	94.2	96.9			2.83
	Propoxur	71.8	62.7	63.2			0.809
	Pyraclostrobin	84.0	78.1	74.2			5.18
	Silvex	92.5	85.5	87.8			2.65
	Sucralose	106	100	99.9			0.0924
	Thiamethoxam	96.3	91.5	93.4			2.03
	Tolfenpyrad	48.7	48.6	48.8			0.260
	Triclopyr	91.8	79.2	90.4			13.2
SM 2320 B-2011	Total Alkalinity	97.7				0.165	
SM 2540 C-2015	TDS	96.4				4.16	
SM 2540 D-2015	TSS	102					
SM 4500-F- C-2011	Fluoride	102	101	101			0.0
SM 5310 B-2014	Organic Carbon	98.4	98.7	99.6			0.740

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2455345, 2455346, 2455347
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2455345, 2455346, 2455347
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2455345, 2455346, 2455347
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2455345, 2455346, 2455347
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2455348, 2455349, 2455350
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2455348, 2455349, 2455350
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2455348, 2455349, 2455350
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2455348, 2455349, 2455350
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2455364, 2455365
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2455360, 2455361, 2455362
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2455364, 2455365
EPA 8270E	PCBs in water matrices by GC/MS/MS	2455360, 2455361, 2455362
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2455360, 2455361, 2455362
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2455355, 2455356
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2455358, 2455359
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2455345, 2455346, 2455347
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2455345, 2455346, 2455347
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2455345, 2455346, 2455347
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2455345, 2455346, 2455347
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2455348, 2455349, 2455350

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	12/07/2023			12/07/2023 15:02	Anna M. Plaviak	2455345
	12/07/2023			12/07/2023 15:03	Anna M. Plaviak	2455346, 2455347
EPA 180.1 Rev. 2.0	12/07/2023			12/07/2023 13:53	Chandler E Cox	2455345, 2455346
	12/07/2023			12/07/2023 13:57	Chandler E Cox	2455347
EPA 300.0 Rev. 2.1	12/07/2023			12/13/2023 04:18	Anna M. Plaviak	2455345
	12/07/2023			12/13/2023 04:33	Anna M. Plaviak	2455346
	12/07/2023			12/13/2023 04:48	Anna M. Plaviak	2455347
	12/07/2023			12/15/2023 23:31	James L Waggerby	2455345
	12/07/2023			12/15/2023 23:46	James L Waggerby	2455346
	12/07/2023			12/16/2023 00:01	James L Waggerby	2455347
EPA 350.1 Rev. 2.0	12/07/2023			12/08/2023 12:57	Khloe J Berg	2455350
	12/07/2023			12/12/2023 13:12	Khloe J Berg	2455348
	12/07/2023			12/12/2023 13:13	Khloe J Berg	2455349
EPA 351.2 Rev. 2.0	12/07/2023	12/12/2023 10:36	Ping Hua	12/13/2023 11:35	Ping Hua	2455348
	12/07/2023	12/12/2023 10:36	Ping Hua	12/13/2023 11:37	Ping Hua	2455349
	12/07/2023	12/12/2023 10:36	Ping Hua	12/13/2023 11:39	Ping Hua	2455350
EPA 353.2 Rev. 2.0	12/07/2023			12/08/2023 13:43	Fadila Guebre	2455348
	12/07/2023			12/08/2023 13:45	Fadila Guebre	2455349
	12/07/2023			12/12/2023 13:13	Fadila Guebre	2455350
EPA 365.1 Rev. 2.0	12/07/2023	12/12/2023 14:15	Adam P Silver	12/13/2023 13:32	Simonne.V. Calhoun	2455349
	12/07/2023	12/12/2023 14:15	Adam P Silver	12/13/2023 14:50	Simonne.V. Calhoun	2455350
	12/07/2023	12/12/2023 14:15	Adam P Silver	12/13/2023 14:53	Simonne.V. Calhoun	2455348
EPA 8270E	12/07/2023	12/10/2023 11:30	Mohammad Ghaffari	12/16/2023 17:18	Vandana T. Nagar	2455364
	12/07/2023	12/10/2023 11:30	Mohammad Ghaffari	12/17/2023 00:58	Vandana T. Nagar	2455365
	12/07/2023	12/10/2023 11:30	Mohammad Ghaffari	12/22/2023 19:45	Vandana T. Nagar	2455364
	12/07/2023	12/10/2023 11:30	Mohammad Ghaffari	12/29/2023 19:52	Arthur Maknenko	2455364
	12/07/2023	12/10/2023 11:30	Mohammad Ghaffari	12/29/2023 23:54	Arthur Maknenko	2455365
	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/14/2023 21:59	Lipi Saha	2455361
	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/14/2023 23:29	Lipi Saha	2455360
	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/14/2023 23:59	Lipi Saha	2455362
	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/20/2023 22:25	Julie Wi	2455360
	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/20/2023 22:58	Julie Wi	2455361
	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/20/2023 23:30	Julie Wi	2455362
	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/23/2023 04:44	Julie Wi	2455362
EPA 8276	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/21/2023 02:43	Arthur Maknenko	2455361
	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/21/2023 08:15	Arthur Maknenko	2455360
	12/07/2023	12/12/2023 08:30	Rasheda Ghaffari	12/21/2023 09:11	Arthur Maknenko	2455362
EPA 8321B	12/07/2023	12/07/2023 15:30	Tae K Lee	12/08/2023 03:50	Hana Lee	2455358
	12/07/2023	12/07/2023 15:30	Tae K Lee	12/08/2023 04:03	Hana Lee	2455359
	12/07/2023	12/07/2023 15:30	Tae K Lee	12/08/2023 17:07	Hana Lee	2455358

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	12/07/2023	12/07/2023 15:30	Tae K Lee	12/08/2023 17:21	Hana Lee	2455359
	12/07/2023	12/11/2023 09:00	Hoor Shaik	12/12/2023 22:04	Juyoung Kim	2455358
	12/07/2023	12/11/2023 09:00	Hoor Shaik	12/12/2023 22:22	Juyoung Kim	2455359
	12/07/2023	12/12/2023 09:00	Hoor Shaik	12/13/2023 05:12	Juyoung Kim	2455355
	12/07/2023	12/12/2023 09:00	Hoor Shaik	12/13/2023 05:29	Juyoung Kim	2455356
SM 2320 B-2011	12/07/2023			12/13/2023 05:06	Dale L. Simmons	2455345
	12/07/2023			12/13/2023 05:18	Dale L. Simmons	2455346
	12/07/2023			12/13/2023 05:28	Dale L. Simmons	2455347
SM 2540 C-2015	12/07/2023			12/12/2023 15:24	Yijie Li	2455345, 2455346, 2455347
SM 2540 D-2015	12/07/2023			12/12/2023 15:24	Yijie Li	2455345, 2455346, 2455347
SM 4500-F- C-2011	12/07/2023			12/13/2023 05:06	Dale L. Simmons	2455345
	12/07/2023			12/13/2023 05:18	Dale L. Simmons	2455346
	12/07/2023			12/13/2023 05:28	Dale L. Simmons	2455347
SM 5310 B-2014	12/07/2023			12/08/2023 23:49	Kenneth H Lee	2455348
	12/07/2023			12/09/2023 00:03	Kenneth H Lee	2455349
	12/07/2023			12/09/2023 00:17	Kenneth H Lee	2455350