

Chemical Analysis Report

NW-DIST-2023-10-03-01

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

Event Description: **Laurel Hill East**
Request ID: **RQ-2023-10-02-60**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

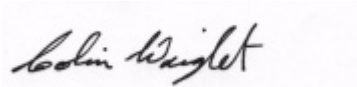
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This Report replaces the previous Report Serial Number: 0149642

Report Comment: Matrix corrected to W-FIELD-BK for FB_10022023.

Revision certified by: Colin Wright, Program Administrator

Date Certified: 31-OCT-2023 09:24



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: GUM CREEK

Collection Date/Time: 10/02/2023 10:20

Field ID: G4NW0382

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442411	EPA 8321B	Aldicarb	0.020	U	ug/L	P435875	
		Aldicarb Sulfone	0.0020	U	ug/L	P435875	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P435875	
		Carbaryl	0.0020	U	ug/L	P435875	
		Carbofuran	0.0020	U	ug/L	P435875	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P435875	
		Methiocarb	0.0020	U	ug/L	P435875	
		Methomyl	0.0020	U	ug/L	P435875	
		Oxamyl	0.0020	U	ug/L	P435875	
		Propoxur	0.0020	U	ug/L	P435875	
2442412		2,4-D	0.0020	U	ug/L	P435876	
		Acesulfame K	0.10	U	ug/L	P435922	
		2,4,5-T	0.0040	U	ug/L	P435876	
		AMPA	0.10	U	ug/L	P435922	
		Acetaminophen	0.0080	U	ug/L	P435876	
		Acetamiprid	0.0020	U	ug/L	P435876	
		Endothall	0.25	U	ug/L	P435922	
		Glufosinate	0.10	U	ug/L	P435922	
		Glyphosate	0.10	U	ug/L	P435922	
		Afidopyropen	0.0020	U	ug/L	P435876	
		Bentazon	8.0E-04	U	ug/L	P435876	
		Sucralose	0.24		ug/L	P435922	
		Benzovindiflupyr	0.0020	U	ug/L	P435876	
		Carbamazepine	8.0E-04	U	ug/L	P435876	
		Clothianidin	0.0020	U	ug/L	P435876	
		Dinotefuran	0.0020	U	ug/L	P435876	
		Diuron	0.0020	U	ug/L	P435876	RPD
		Fenuron	0.032	U	ug/L	P435876	
		Fluridone	8.0E-04	U	ug/L	P435876	
		Imazapyr	0.0040	U	ug/L	P435876	
		Hydrocodone	0.0020	U	ug/L	P435876	
		Ibuprofen	0.080	U	ug/L	P435876	
		Imidacloprid	0.0046	I	ug/L	P435876	
		Linuron	0.0040	U	ug/L	P435876	
		Mandestrobin	0.0020	U	ug/L	P435876	
		MCPP	0.0020	U	ug/L	P435876	
		Naproxen	0.0080	U	ug/L	P435876	
		Primidone	0.0040	U	ug/L	P435876	
		Pyraclostrobin	0.0020	U	ug/L	P435876	
		Silvex	0.0040	U	ug/L	P435876	
		Thiamethoxam	0.0020	U	ug/L	P435876	
		Tolfenpyrad	0.0020	U	ug/L	P435876	
		Triclopyr	0.0040	U	ug/L	P435876	
2442415	EPA 8270E	Aldrin	0.69	U	ng/L	P435920	

Field ID: G4NW0382

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442415	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P435920	
		Alpha-Chlordane	0.21	U	ng/L	P435920	
		PCB-1016	2.1	U	ng/L	P435920	
		Beta-BHC	0.11	U	ng/L	P435920	
		PCB-1221	2.1	U	ng/L	P435920	
		Beta-Cyfluthrin	1.3	U	ng/L	P435920	
		PCB-1232	2.1	U	ng/L	P435920	
		Bifenthrin	0.53	U	ng/L	P435920	
		PCB-1242	2.1	U	ng/L	P435920	
		PCB-1248	2.1	U	ng/L	P435920	
		Chlorothalonil	3.8	U	ng/L	P435920	
		PCB-1254	2.1	U	ng/L	P435920	
		Cis-Nonachlor	0.21	U	ng/L	P435920	
		PCB-1260	2.1	U	ng/L	P435920	
		Cypermethrin	1.6	U	ng/L	P435920	
		Dacthal	0.16	U	ng/L	P435920	
		DDD-p,p'	0.26	U	ng/L	P435920	
		DDE-p,p'	0.21	U	ng/L	P435920	
		DDT-p,p'	0.85	U	ng/L	P435920	
		Delta-BHC	0.42	U	ng/L	P435920	
		Deltamethrin	1.3	U	ng/L	P435920	
		Dichlobenil	0.26	U	ng/L	P435920	
		Dicofol	1.3	U	ng/L	P435920	
		Dieldrin	0.42	U	ng/L	P435920	
		Endosulfan I	0.42	U	ng/L	P435920	
		Endosulfan II	0.95	U	ng/L	P435920	
		Endosulfan Sulfate	0.32	U	ng/L	P435920	
		Endrin	0.95	U	ng/L	P435920	
		Endrin Aldehyde	0.79	U	ng/L	P435920	
		Endrin Ketone	0.42	U	ng/L	P435920	
		Esfenvalerate	0.79	U	ng/L	P435920	
		Ethalfuralin	0.16	U	ng/L	P435920	
		Fenpropathrin	0.26	U	ng/L	P435920	
		Gamma-BHC	0.13	U	ng/L	P435920	
		Gamma-Chlordane	0.21	U	ng/L	P435920	
		Heptachlor	0.21	U	ng/L	P435920	
		Heptachlor Epoxide	0.26	U	ng/L	P435920	
		Hexachlorobenzene**	1.1	U	ng/L	P435920	
		Kepone	14	U	ng/L	P435920	
		Lambda-Cyhalothrin	0.79	U	ng/L	P435920	
		Methoprene	0.79	U	ng/L	P435920	
		Methoxychlor	0.32	U	ng/L	P435920	
		MGK-264	0.21	U	ng/L	P435920	
		Mirex	0.37	U	ng/L	P435920	
		Oxychlordane	0.32	U	ng/L	P435920	

Field ID: G4NW0382

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442415	EPA 8270E	Permethrin	1.7	U	ng/L	P435920	
		Phenothrin	0.95	U	ng/L	P435920	
		Piperonyl Butoxide	0.16	U	ng/L	P435920	
		Prallethrin	2.1	U	ng/L	P435920	
		Tau-Fluvalinate	0.26	U	ng/L	P435920	
		Tetramethrin	0.79	U	ng/L	P435920	
		Trans-Nonachlor	0.21	U	ng/L	P435920	
		Triclosan Methyl	0.16	U	ng/L	P435920	
		Trifluralin	0.21	U	ng/L	P435920	
		Chlordane	2.1	U	ng/L	P435920	
	EPA 8276	Toxaphene	170		ng/L	P435920	
		Oxybenzone**	10	U	ng/L	P435859	
		Acetochlor	0.21	U	ng/L	P435859	
		Octinoxate**	160	U	ng/L	P435859	
		Alachlor	0.42	U	ng/L	P435859	
		Avobenzone**	100	U	ng/L	P435859	
		Ametryn	1.2	U	ng/L	P435859	
		Atrazine	0.22	I	ng/L	P435859	
		PBDE-47**	4.2	U	ng/L	P435859	
		Atrazine Desethyl	1.4	U	ng/L	P435859	
2442416	EPA 8270E	PBDE-99**	5.2	UJ	ng/L	P435859	MS, RPD
		Azinphos Methyl	3.1	UJ	ng/L	P435859	MS, RPD
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P435859	
		Azoxystrobin	0.42	U	ng/L	P435859	
		Bromacil	0.63	U	ng/L	P435859	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	UJ	ng/L	P435859	LCS, MS, RPD
		Butylate	0.47	U	ng/L	P435859	
		Dechlorane Plus**	31	U	ng/L	P435859	
		Caffeine**	13	I	ng/L	P435859	
		Dechlorane 602**	5.2	U	ng/L	P435859	
		Carbophenothion	0.52	U	ng/L	P435859	
		Dechlorane 603**	4.2	U	ng/L	P435859	
		Carfentrazone Ethyl	0.16	U	ng/L	P435859	
		Hexabromobenzene**	6.3	UJ	ng/L	P435859	RPD
		Chlorfenapyr	0.31	U	ng/L	P435859	
		PBB-153**	6.3	UJ	ng/L	P435859	LCS, MS, RPD
		Chlorpyrifos Ethyl	0.31	U	ng/L	P435859	
		Pentabromotoluene**	3.1	UJ	ng/L	P435859	RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P435859	
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P435859	
		Coumaphos	1.1	U	ng/L	P435859	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P435859	
		Cyanazine	5.2	U	ng/L	P435859	

Field ID: G4NW0382

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442416	EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P435859	
		Cyprodinil	0.21	U	ng/L	P435859	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P435859	
		Demeton	3.7	U	ng/L	P435859	
		Diazinon	0.13	U	ng/L	P435859	
		Difenoconazole	0.63	U	ng/L	P435859	
		Dimethenamid	0.10	U	ng/L	P435859	
		Dimethomorph	0.31	UJ	ng/L	P435859	MS
		Disulfoton	0.63	UJ	ng/L	P435859	LCS
		Dithiopyr	1.0	U	ng/L	P435859	
		EPTC	0.52	U	ng/L	P435859	
		Ethion	0.31	U	ng/L	P435859	
		Ethoprop	0.13	U	ng/L	P435859	
		Etridiazole	0.10	U	ng/L	P435859	
		Fenamiphos	0.47	UJ	ng/L	P435859	CCV
		Fenbuconazole	0.52	U	ng/L	P435859	
		Fipronil	0.21	U	ng/L	P435859	
		Fipronil Desulfinyl**	0.10	U	ng/L	P435859	
		Fipronil Sulfide	0.12	I	ng/L	P435859	
		Fipronil Sulfone	0.14	I	ng/L	P435859	
		Fluazifop-P-butyl	0.10	U	ng/L	P435859	
		Fludioxonil	0.10	U	ng/L	P435859	
		Flumioxazin	3.1	U	ng/L	P435859	
		Flutolanil	0.10	U	ng/L	P435859	
		Fluxapyroxad	0.26	U	ng/L	P435859	
		Fonofos	0.16	U	ng/L	P435859	
		Hexazinone	0.52	U	ng/L	P435859	
		Imazalil	0.68	U	ng/L	P435859	
		Iprodione	0.52	U	ng/L	P435859	
		Loratadine**	0.31	U	ng/L	P435859	
		Malathion	0.37	U	ng/L	P435859	
		Metalaxyl	0.52	U	ng/L	P435859	
		Metolachlor	4.4		ng/L	P435859	
		Metribuzin	0.42	U	ng/L	P435859	
		Mevinphos	1.0	U	ng/L	P435859	
		Molinate	0.26	U	ng/L	P435859	
		Myclobutanil	0.37	U	ng/L	P435859	
		Naled	2.6	U	ng/L	P435859	
		Napropamide	0.73	U	ng/L	P435859	
		Norflurazon	1.0	U	ng/L	P435859	
		Oxadiazon	0.37	U	ng/L	P435859	
		Oxyfluorfen	0.21	U	ng/L	P435859	
		Parathion Ethyl	0.16	U	ng/L	P435859	
		Parathion Methyl	0.21	U	ng/L	P435859	

Field ID: G4NW0382

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442416	EPA 8270E	Pendimethalin	1.8	U	ng/L	P435859	
		Phenytion**	5.5	U	ng/L	P435859	
		Phorate	0.26	U	ng/L	P435859	
		Prodiamine	0.21	U	ng/L	P435859	
		Prometon	3.1	U	ng/L	P435859	
		Prometryn	0.37	U	ng/L	P435859	
		Pronamide	0.10	U	ng/L	P435859	
		Propanil	0.10	U	ng/L	P435859	
		Propargite	0.84	UJ	ng/L	P435859	CCV
		Propiconazole	0.63	U	ng/L	P435859	
		Pyraflufen Ethyl	0.31	U	ng/L	P435859	
		Pyridaben	1.5	UJ	ng/L	P435859	CCV
		Pyriproxyfen	0.26	U	ng/L	P435859	
		Simazine	0.26	U	ng/L	P435859	
		Stirophos	0.42	U	ng/L	P435859	
		Sulfentrazone	1.5	U	ng/L	P435859	
		Tebuconazole	1.5	U	ng/L	P435859	
		Terbufos	0.21	U	ng/L	P435859	
		Terbuthylazine	0.21	U	ng/L	P435859	
		Thiobencarb	0.52	U	ng/L	P435859	
		Triadimefon	0.16	U	ng/L	P435859	

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

Sample Location: FB

Collection Date/Time: 10/02/2023 10:30

Field ID: FB_10022023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442413	EPA 8321B	Aldicarb	0.020	U	ug/L	P435875	
		Aldicarb Sulfone	0.0020	U	ug/L	P435875	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P435875	
		Carbaryl	0.0020	U	ug/L	P435875	
		Carbofuran	0.0020	U	ug/L	P435875	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P435875	
		Methiocarb	0.0020	U	ug/L	P435875	
		Methomyl	0.0020	U	ug/L	P435875	
		Oxamyl	0.0020	U	ug/L	P435875	
		Propoxur	0.0020	U	ug/L	P435875	
2442414		2,4-D	0.0020	U	ug/L	P435876	
		Acesulfame K	0.10	U	ug/L	P435922	
		2,4,5-T	0.0040	U	ug/L	P435876	
		AMPA	0.10	U	ug/L	P435922	
		Acetaminophen	0.0080	U	ug/L	P435876	
		Acetamiprid	0.0020	U	ug/L	P435876	
		Endothall	0.25	U	ug/L	P435922	
		Glufosinate	0.10	U	ug/L	P435922	
		Glyphosate	0.10	U	ug/L	P435922	
		Afidopyropen	0.0020	U	ug/L	P435876	
		Bentazon	8.0E-04	U	ug/L	P435876	
		Sucralose	0.010	U	ug/L	P435922	
		Benzovindiflupyr	0.0020	U	ug/L	P435876	
		Carbamazepine	8.0E-04	U	ug/L	P435876	
		Clothianidin	0.0020	U	ug/L	P435876	
		Dinotefuran	0.0020	U	ug/L	P435876	
		Diuron	0.0020	U	ug/L	P435876	RPD
		Fenuron	0.032	U	ug/L	P435876	
		Fluridone	8.0E-04	U	ug/L	P435876	
		Imazapyr	0.0040	U	ug/L	P435876	
		Hydrocodone	0.0020	U	ug/L	P435876	
		Ibuprofen	0.080	U	ug/L	P435876	
		Imidacloprid	0.0020	U	ug/L	P435876	
		Linuron	0.0040	U	ug/L	P435876	
		Mandestrobin	0.0020	U	ug/L	P435876	
		MCPP	0.0020	U	ug/L	P435876	
		Naproxen	0.0080	U	ug/L	P435876	
		Primidone	0.0040	U	ug/L	P435876	
		Pyraclostrobin	0.0020	U	ug/L	P435876	
		Silvex	0.0040	U	ug/L	P435876	
		Thiamethoxam	0.0020	U	ug/L	P435876	
		Tolfenpyrad	0.0020	U	ug/L	P435876	
		Triclopyr	0.0040	U	ug/L	P435876	
2442417	EPA 8270E	Aldrin	0.71	U	ng/L	P435920	

Field ID: FB_10022023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442417	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P435920	
		Alpha-Chlordane	0.22	U	ng/L	P435920	
		PCB-1016	2.2	U	ng/L	P435920	
		Beta-BHC	0.11	U	ng/L	P435920	
		PCB-1221	2.2	U	ng/L	P435920	
		Beta-Cyfluthrin	1.4	U	ng/L	P435920	
		PCB-1232	2.2	U	ng/L	P435920	
		Bifenthrin	0.54	U	ng/L	P435920	
		PCB-1242	2.2	U	ng/L	P435920	
		PCB-1248	2.2	U	ng/L	P435920	
		Chlorothalonil	3.9	U	ng/L	P435920	
		PCB-1254	2.2	U	ng/L	P435920	
		Cis-Nonachlor	0.22	U	ng/L	P435920	
		PCB-1260	2.2	U	ng/L	P435920	
		Cypermethrin	1.6	U	ng/L	P435920	
		Dacthal	0.16	U	ng/L	P435920	
		DDD-p,p'	0.27	U	ng/L	P435920	
		DDE-p,p'	0.22	U	ng/L	P435920	
		DDT-p,p'	0.87	U	ng/L	P435920	
		Delta-BHC	0.43	U	ng/L	P435920	
		Deltamethrin	1.4	U	ng/L	P435920	
		Dichlobenil	0.27	U	ng/L	P435920	
		Dicofol	1.4	U	ng/L	P435920	
		Dieldrin	0.43	U	ng/L	P435920	
		Endosulfan I	0.43	U	ng/L	P435920	
		Endosulfan II	0.98	U	ng/L	P435920	
		Endosulfan Sulfate	0.33	U	ng/L	P435920	
		Endrin	0.98	U	ng/L	P435920	
		Endrin Aldehyde	0.82	U	ng/L	P435920	
		Endrin Ketone	0.43	U	ng/L	P435920	
		Esfenvalerate	0.82	U	ng/L	P435920	
		Ethalfuralin	0.16	U	ng/L	P435920	
		Fenpropathrin	0.27	U	ng/L	P435920	
		Gamma-BHC	0.14	U	ng/L	P435920	
		Gamma-Chlordane	0.22	U	ng/L	P435920	
		Heptachlor	0.22	U	ng/L	P435920	
		Heptachlor Epoxide	0.27	U	ng/L	P435920	
		Hexachlorobenzene**	1.1	U	ng/L	P435920	
		Kepone	15	U	ng/L	P435920	
		Lambda-Cyhalothrin	0.82	U	ng/L	P435920	
		Methoprene	0.82	U	ng/L	P435920	
		Methoxychlor	0.33	U	ng/L	P435920	
		MGK-264	0.22	U	ng/L	P435920	
		Mirex	0.38	U	ng/L	P435920	
		Oxychlordane	0.33	U	ng/L	P435920	

Field ID: FB_10022023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442417	EPA 8270E	Permethrin	1.7	U	ng/L	P435920	
		Phenothrin	0.98	U	ng/L	P435920	
		Piperonyl Butoxide	0.16	U	ng/L	P435920	
		Prallethrin	2.2	U	ng/L	P435920	
		Tau-Fluvalinate	0.27	U	ng/L	P435920	
		Tetramethrin	0.82	U	ng/L	P435920	
		Trans-Nonachlor	0.22	U	ng/L	P435920	
		Triclosan Methyl	0.16	U	ng/L	P435920	
		Trifluralin	0.22	U	ng/L	P435920	
		Chlordane	2.2	U	ng/L	P435920	
	EPA 8276	Toxaphene	16	U	ng/L	P435920	

Sample Location: FB

Collection Date/Time: 10/02/2023 10:30

Field ID: FB_10022023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2442403	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P435891	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P435887	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P436173	
		Sulfate	0.20	U	mg SO4/L	P436176	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P436023	
	SM 2540 C-2015	TDS	15	U	mg/L	P436426	
	SM 2540 D-2015	TSS	2	U	mg/L	P436385	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P436026	
2442404	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P436136	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P436481	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436375	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P436113	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P436111	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P435891

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435887

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436173

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436176

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436136

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436481

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436375

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436113

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

Reference Method: EPA 8270E
Batch ID: P435859

Component	Result	Code	Units
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435859

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435859

Component	Result	Code	Units
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
Stiropfos	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

Reference Method: EPA 8270E

Batch ID: P435920

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435920

Component	Result	Code	Units
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
Ethalfuralin	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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276

Batch ID: P435920

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

Reference Method: EPA 8321B

Batch ID: P435875

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: P435876

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P435922

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: SM 2320 B-2011
Batch ID: P436023

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

Reference Method: SM 2540 C-2015
Batch ID: P436426

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436385

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436026

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P436111

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: P435891

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435887

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436173

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	93.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436136

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436481

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436375

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436113

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

Reference Method: EPA 8270E
Batch ID: P435859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	17.5		F	37 - 154
Acetochlor	94.8		P	64 - 124
Alachlor	103		P	61 - 118
Ametryn	123		P	47 - 158

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	102		P	68 - 121
Atrazine Desethyl	106		P	30 - 119
Avobenzone	131		P	48 - 193
Azinphos Methyl	93.1		P	30 - 194
Azoxystrobin	98.8		P	58 - 154
Bromacil	89.9		P	47 - 126
Butylate	71.2		P	31 - 83.0
Caffeine	101		P	10 - 180
Carbophenothion	95.4		P	59 - 133
Carfentrazone Ethyl	114		P	59 - 147
Chlorfenapyr	91.1		P	52 - 118
Chlorpyrifos Ethyl	109		P	59 - 119
Chlorpyrifos Methyl	93.1		P	65 - 123
Coumaphos	116		P	11 - 223
Cyanazine	125		P	63 - 250
Cyprodinil	127		P	52 - 143
Dechlorane 602	79.7		P	23 - 142
Dechlorane 603	68.9		P	51 - 171
Dechlorane Plus	59.1		P	46 - 161
Demeton	59.3		P	42 - 119
Diazinon	124		P	67 - 132
Difenoconazole	61.5		P	12 - 204
Dimethenamid	104		P	53 - 113
Dimethomorph	213		P	13 - 238
Disulfoton	126		F	56 - 126
Dithiopyr	107		P	58 - 127
EPTC	66.3		P	31 - 78.0
Ethion	76.0		P	24 - 127
Ethoprop	82.7		P	60 - 118
Etridiazole	71.0		P	32 - 91.0
Fenamiphos	74.7		P	54 - 129
Fenbuconazole	84.9		P	31 - 162
Fipronil	109		P	56 - 131
Fipronil Desulfinyl	94.8		P	58 - 132
Fipronil Sulfide	100		P	51 - 123
Fipronil Sulfone	99.9		P	50 - 125
Fluazifop-P-butyl	93.5		P	52 - 132
Fludioxonil	95.0		P	52 - 129
Flumioxazin	36.7		P	34 - 250
Flutolanil	88.6		P	45 - 128
Fluxapyroxad	89.0		P	31 - 150
Fonofos	106		P	60 - 116
Hexabromobenzene	73.3		P	52 - 165
Hexazinone	101		P	59 - 120
Imazalil	80.5		P	39 - 134
Iprodione	89.9		P	39 - 243
Loratadine	136		P	10 - 240
Malathion	114		P	53 - 145
Metalaxyl	93.4		P	59 - 120
Metolachlor	106		P	64 - 122
Metribuzin	50.0		P	33 - 128
Mevinphos	103		P	48 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	64.3		P	42 - 89.0
Myclobutanil	94.8		P	54 - 129
Naled	39.5		P	10 - 138
Napropamide	90.9		P	40 - 122
Norflurazon	81.1		P	49 - 132
Octinoxate	115		P	29 - 176
Oxadiazon	74.9		P	50 - 115
Oxybenzone	130		P	45 - 145
Oxyfluorfen	106		P	62 - 149
Parathion Ethyl	98.6		P	68 - 119
Parathion Methyl	143		P	68 - 147
PBB-153	22.0		F	42 - 179
PBDE-47	92.2		P	44 - 141
PBDE-99	46.1		P	36 - 141
Pendimethalin	124		P	59 - 158
Pentabromotoluene	90.9		P	58 - 148
Phenytoin	22.8		P	10 - 151
Phorate	75.4		P	44 - 124
Prodiamine	40.1		P	10 - 136
Prometon	111		P	45 - 131
Prometryn	136		P	52 - 140
Pronamide	121		P	70 - 129
Propanil	102		P	54 - 144
Propargite	49.1		P	10 - 191
Propiconazole	102		P	49 - 128
Pyraflufen Ethyl	98.9		P	46 - 141
Pyridaben	63.2		P	29 - 198
Pyriproxyfen	84.7		P	33 - 221
Simazine	101		P	62 - 119
Stirophos	76.6		P	13 - 144
Sulfentrazone	38.5		P	12 - 152
Tebuconazole	62.9		P	10 - 135
Terbufos	105		P	67 - 136
Terbutylazine	111		P	66 - 113
Tetradecachloro-m-terphenyl	67.1		P	30 - 235
Thiobencarb	95.2		P	51 - 125
Tri-o-cresyl Phosphate	116		P	50 - 150
Triadimefon	93.6		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	126		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	108		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	97.7		P	59 - 166

Reference Method: EPA 8270E

Batch ID: P435920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.4		P	24 - 81.0
Alpha-BHC	86.0		P	65 - 110
Alpha-Chlordane	92.1		P	43 - 119
Beta-BHC	109		P	54 - 165
Beta-Cyfluthrin	70.0		P	27 - 165
Bifenthrin	49.5		P	17 - 117

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorothalonil	124		P	10 - 255
Cis-Nonachlor	84.7		P	34 - 98.0
Cypermethrin	47.4		P	25 - 143
Dacthal	86.6		P	55 - 139
DDD-p,p'	59.0		P	30 - 109
DDE-p,p'	51.5		P	35 - 106
DDT-p,p'	63.3		P	41 - 101
Delta-BHC	142		P	58 - 165
Deltamethrin	81.7		P	10 - 194
Dichlobenil	78.7		P	22 - 114
Dicofol	77.0		P	17 - 133
Dieldrin	59.5		P	45 - 129
Endosulfan I	66.7		P	49 - 104
Endosulfan II	68.6		P	37 - 117
Endosulfan Sulfate	93.4		P	38 - 128
Endrin	55.5		P	35 - 116
Endrin Aldehyde	82.4		P	19 - 108
Endrin Ketone	91.6		P	44 - 134
Esfenvalerate	80.6		P	27 - 176
Ethalfuralin	76.2		P	49 - 100
Fenpropathrin	60.6		P	34 - 117
Gamma-BHC	109		P	59 - 129
Gamma-Chlordane	99.4		P	33 - 107
Heptachlor	57.3		P	37 - 94.0
Heptachlor Epoxide	75.7		P	38 - 118
Hexachlorobenzene	64.6		P	35 - 97.0
Kepone	88.8		P	10 - 221
Lambda-Cyhalothrin	37.2		P	23 - 190
Methoprene	45.0		P	21 - 109
Methoxychlor	78.7		P	46 - 118
MGK-264	99.0		P	39 - 122
Mirex	50.4		P	25 - 90.0
Oxychlordane	64.7		P	42 - 100
PCB-1016	69.2		P	45 - 107
PCB-1260	76.3		P	40 - 118
Permethrin	62.9		P	33 - 181
Phenothrin	53.3		P	12 - 125
Piperonyl Butoxide	91.1		P	10 - 178
Prallethrin	63.1		P	24 - 122
Tau-Fluvalinate	67.6		P	13 - 151
Tetramethrin	72.4		P	16 - 172
Trans-Nonachlor	64.1		P	39 - 100
Triclosan Methyl	67.1		P	43 - 110
Trifluralin	63.5		P	45 - 94.0

Reference Method: EPA 8276

Batch ID: P435920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.2		P	52 - 117
Toxaphene	85.9		P	44 - 125

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P435875

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	80.5		P	40 - 150
Aldicarb	46.9		P	30 - 150
Aldicarb Sulfone	101		P	40 - 150
Aldicarb Sulfoxide	127		P	40 - 150
Carbaryl	63.3		P	40 - 150
Carbofuran	80.4		P	40 - 150
Methiocarb	61.9		P	40 - 150
Methomyl	90.3		P	40 - 150
Oxamyl	109		P	40 - 150
Propoxur	82.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	113		P	40 - 150
2,4,5-T	110		P	40 - 150
Acetaminophen	74.8		P	30 - 150
Acetamiprid	85.7		P	40 - 150
Afidopyropen	72.0		P	30 - 150
Bentazon	68.5		P	30 - 150
Benzovindiflupyr	104		P	40 - 150
Carbamazepine	74.1		P	40 - 150
Clothianidin	89.8		P	40 - 150
Dinotefuran	93.8		P	40 - 150
Diuron	60.3		P	40 - 150
Fenuron	87.5		P	40 - 150
Fluridone	79.8		P	40 - 150
Hydrocodone	79.6		P	40 - 150
Ibuprofen	75.8		P	40 - 150
Imazapyr	75.8		P	40 - 150
Imidacloprid	93.9		P	40 - 150
Linuron	63.5		P	40 - 150
Mandestrobin	92.2		P	40 - 150
MCPP	114		P	40 - 150
Naproxen	65.1		P	40 - 150
Primidone	85.6		P	40 - 150
Pyraclostrobin	79.3		P	40 - 150
Silvex	80.3		P	40 - 150
Thiamethoxam	91.2		P	40 - 150
Tolfenpyrad	45.2		P	30 - 150
Triclopyr	102		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435922

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	85.1		P	40 - 150
AMPA	101		P	40 - 150
Endothall	87.7		P	40 - 150
Glufosinate	82.5		P	40 - 150
Glyphosate	92.4		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P435922

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	120		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P436023

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.9		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P436426

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

Reference Method: SM 2540 D-2015
Batch ID: P436385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	106		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P436026

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

Reference Method: SM 5310 B-2011
Batch ID: P436111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436173

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442501	Chloride	104		P	90 - 110
2442658	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442501	Sulfate	95.9		P	90 - 110
2442658	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436136

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442380	Ammonia-N	102	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442390	Kjeldahl Nitrogen	98.2	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436375

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442356	NO2NO3-N	97.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436113

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442389	Total-P	107	107	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P435859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442416	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.22	61.7	F/P	29 - 155
2442416	Acetochlor	98.0	81.7	P/P	60 - 124
2442416	Alachlor	91.8	94.8	P/P	54 - 122
2442416	Ametryn	141	142	P/P	51 - 208
2442416	Atrazine	101	96.5	P/P	57 - 131
2442416	Atrazine Desethyl	97.8	89.7	P/P	13 - 124
2442416	Avobenzone	118	103	P/P	35 - 187
2442416	Azinphos Methyl	39.8	107	F/P	43 - 276
2442416	Azoxystrobin	117	95.4	P/P	52 - 300
2442416	Bromacil	110	101	P/P	44 - 134
2442416	Butylate	72.9	60.9	P/P	23 - 82.0
2442416	Caffeine	117	119	P/P	10 - 277
2442416	Carbophenothion	112	93.4	P/P	47 - 135
2442416	Carfentrazone Ethyl	125	97.9	P/P	46 - 147

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442416	Chlorfenapyr	88.6	83.4	P/P	43 - 114
2442416	Chlorpyrifos Ethyl	119	108	P/P	47 - 124
2442416	Chlorpyrifos Methyl	113	87.6	P/P	60 - 135
2442416	Coumaphos	113	108	P/P	10 - 222
2442416	Cyanazine	129	108	P/P	10 - 257
2442416	Cyprodinil	124	115	P/P	42 - 148
2442416	Dechlorane 602	55.2	51.0	P/P	14 - 133
2442416	Dechlorane 603	70.6	86.1	P/P	18 - 191
2442416	Dechlorane Plus	62.6	60.1	P/P	23 - 154
2442416	Demeton	62.8	59.5	P/P	41 - 137
2442416	Diazinon	135	127	P/P	64 - 139
2442416	Difenoconazole	69.2	87.9	P/P	46 - 254
2442416	Dimethenamid	103	81.7	P/P	47 - 117
2442416	Dimethomorph	280	319	F/F	14 - 255
2442416	Disulfoton	123	114	P/P	52 - 130
2442416	Dithiopyr	103	104	P/P	40 - 121
2442416	EPTC	64.1	54.3	P/P	19 - 78.0
2442416	Ethion	32.5	21.5	P/P	12 - 124
2442416	Ethoprop	90.6	84.7	P/P	68 - 144
2442416	Etridiazole	68.8	65.8	P/P	26 - 96.0
2442416	Fenamiphos	63.4	66.7	P/P	41 - 129
2442416	Fenbuconazole	106	95.4	P/P	26 - 169
2442416	Fipronil	107	96.8	P/P	46 - 145
2442416	Fipronil Desulfinyl	100	102	P/P	47 - 136
2442416	Fipronil Sulfide	105	94.6	P/P	41 - 127
2442416	Fipronil Sulfone	98.1	83.5	P/P	35 - 133
2442416	Fluazifop-P-butyl	108	100	P/P	46 - 131
2442416	Fludioxonil	97.5	80.2	P/P	51 - 124
2442416	Flumioxazin	63.1	101	P/P	10 - 289
2442416	Flutolanil	83.0	72.9	P/P	34 - 130
2442416	Fluxapyroxad	70.0	55.3	P/P	10 - 197
2442416	Fonofos	126	109	P/P	42 - 131
2442416	Hexabromobenzene	57.3	90.4	P/P	47 - 178
2442416	Hexazinone	93.9	86.5	P/P	64 - 125
2442416	Imazalil	97.0	83.0	P/P	37 - 252
2442416	Iprodione	92.0	88.4	P/P	34 - 265
2442416	Loratadine	213	203	P/P	20 - 231
2442416	Malathion	115	106	P/P	34 - 164
2442416	Metalaxyl	102	91.1	P/P	49 - 125
2442416	Metolachlor	106	93.2	P/P	54 - 125
2442416	Metribuzin	105	109	P/P	51 - 139
2442416	Mevinphos	123	113	P/P	46 - 130
2442416	Molinate	62.7	65.2	P/P	39 - 93.0
2442416	Myclobutanil	83.7	69.8	P/P	50 - 130
2442416	Naled	47.5	39.7	P/P	10 - 150
2442416	Napropamide	71.0	43.0	P/P	10 - 109
2442416	Norflurazon	81.1	66.5	P/P	36 - 134
2442416	Octinoxate	100	95.2	P/P	18 - 170
2442416	Oxadiazon	82.1	75.6	P/P	43 - 112
2442416	Oxybenzone	121	113	P/P	33 - 154
2442416	Oxyfluorfen	107	101	P/P	62 - 154
2442416	Parathion Ethyl	104	82.3	P/P	65 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442416	Parathion Methyl	151	125	P/P	77 - 185
2442416	PBB-153	10.8	80.5	F/P	23 - 193
2442416	PBDE-47	63.0	66.6	P/P	31 - 139
2442416	PBDE-99	12.5	49.1	F/P	24 - 138
2442416	Pendimethalin	121	114	P/P	50 - 146
2442416	Pentabromotoluene	73.0	87.1	P/P	54 - 152
2442416	Phenytoin	28.0	22.0	P/P	10 - 157
2442416	Phorate	102	72.6	P/P	54 - 161
2442416	Prodiamine	46.9	48.4	P/P	29 - 160
2442416	Prometon	122	119	P/P	38 - 145
2442416	Prometryn	147	132	P/P	32 - 151
2442416	Pronamide	115	100	P/P	61 - 140
2442416	Propanil	95.2	84.2	P/P	50 - 147
2442416	Propargite	34.5	23.5	P/P	10 - 190
2442416	Propiconazole	94.0	88.5	P/P	30 - 146
2442416	Pyraflufen Ethyl	87.9	60.4	P/P	30 - 147
2442416	Pyridaben	58.9	90.7	P/P	15 - 195
2442416	Pyriproxyfen	77.8	56.5	P/P	31 - 218
2442416	Simazine	114	102	P/P	45 - 139
2442416	Stiropfos	54.2	43.3	P/P	10 - 134
2442416	Sulfentrazone	64.0	72.7	P/P	53 - 186
2442416	Tebuconazole	39.9	23.4	P/P	10 - 133
2442416	Terbufos	118	108	P/P	65 - 151
2442416	Terbutylazine	113	106	P/P	62 - 117
2442416	Tetradecachloro-m-terphenyl	101	99.1	P/P	10 - 260
2442416	Thiobencarb	91.6	85.8	P/P	48 - 122
2442416	Tri-o-cresyl Phosphate	107	102	P/P	32 - 151
2442416	Triadimefon	79.8	72.7	P/P	46 - 124
2442416	Tris(1-chloro-2-propyl) phosphate (TCPP)	124	117	P/P	51 - 154
2442416	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101	97.3	P/P	59 - 147
2442416	Tris(2-chloroethyl) phosphate (TCEP)	94.2	91.0	P/P	65 - 156

Reference Method: EPA 8270E

Batch ID: P435920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442830	Aldrin	44.1	44.9	P/P	24 - 81.0
2442830	Alpha-BHC	85.7	73.0	P/P	65 - 110
2442830	Alpha-Chlordane	107	86.2	P/P	43 - 119
2442830	Beta-BHC	124	115	P/P	54 - 165
2442830	Beta-Cyfluthrin	69.6	67.8	P/P	27 - 165
2442830	Bifenthrin	43.4	42.7	P/P	17 - 117
2442830	Chlorothalonil	130	105	P/P	10 - 255
2442830	Cis-Nonachlor	90.2	75.4	P/P	34 - 98.0
2442830	Cypermethrin	47.6	44.8	P/P	25 - 143
2442830	Dacthal	93.1	78.5	P/P	55 - 139
2442830	DDD-p,p'	63.2	55.2	P/P	30 - 109
2442830	DDE-p,p'	61.3	50.3	P/P	35 - 106
2442830	DDT-p,p'	69.5	59.5	P/P	41 - 101
2442830	Delta-BHC	154	153	P/P	58 - 165
2442830	Deltamethrin	91.9	88.3	P/P	10 - 194
2442830	Dichlobenil	87.6	66.7	P/P	22 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442830	Dicofol	80.8	76.5	P/P	17 - 133
2442830	Dieldrin	62.9	55.9	P/P	45 - 129
2442830	Endosulfan I	69.3	59.3	P/P	49 - 104
2442830	Endosulfan II	79.2	76.5	P/P	37 - 117
2442830	Endosulfan Sulfate	103	82.9	P/P	38 - 128
2442830	Endrin	69.6	56.7	P/P	35 - 116
2442830	Endrin Aldehyde	86.8	71.1	P/P	19 - 108
2442830	Endrin Ketone	102	88.3	P/P	44 - 134
2442830	Esfenvalerate	81.4	79.3	P/P	27 - 176
2442830	Ethalfuralin	57.2	54.1	P/P	49 - 100
2442830	Fenpropathrin	66.8	54.9	P/P	34 - 117
2442830	Gamma-BHC	97.0	100	P/P	59 - 129
2442830	Gamma-Chlordane	99.0	94.3	P/P	33 - 107
2442830	Heptachlor	48.4	50.0	P/P	37 - 94.0
2442830	Heptachlor Epoxide	74.7	70.6	P/P	38 - 118
2442830	Hexachlorobenzene	70.8	60.9	P/P	35 - 97.0
2442830	Kepone	101	98.5	P/P	10 - 221
2442830	Lambda-Cyhalothrin	33.7	37.1	P/P	23 - 190
2442830	Methoprene	38.9	35.4	P/P	21 - 109
2442830	Methoxychlor	88.5	75.8	P/P	46 - 118
2442830	MGK-264	101	98.4	P/P	39 - 122
2442830	Mirex	52.5	55.7	P/P	25 - 90.0
2442830	Oxychlordane	63.2	51.5	P/P	42 - 100
2442830	Permethrin	63.6	57.9	P/P	33 - 181
2442830	Phenothrin	49.3	49.6	P/P	12 - 125
2442830	Piperonyl Butoxide	99.2	76.2	P/P	10 - 178
2442830	Prallethrin	66.2	72.1	P/P	24 - 122
2442830	Tau-Fluvalinate	72.7	69.4	P/P	13 - 151
2442830	Tetramethrin	71.7	69.4	P/P	16 - 172
2442830	Trans-Nonachlor	66.0	65.0	P/P	39 - 100
2442830	Triclosan Methyl	70.9	57.6	P/P	43 - 110
2442830	Trifluralin	62.4	50.4	P/P	45 - 94.0
2443209	PCB-1016	71.0	74.9	P/P	45 - 107
2443209	PCB-1260	71.2	72.2	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P435920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443209	Chlordane	73.9	81.0	P/P	43 - 123
2443209	Toxaphene	71.7	85.1	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P435875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441108	3-Hydroxycarbofuran	67.8	52.1	P/P	40 - 150
2441108	Aldicarb	53.5	50.4	P/P	30 - 150
2441108	Aldicarb Sulfone	93.5	87.2	P/P	40 - 150
2441108	Aldicarb Sulfoxide	43.2	42.0	P/P	40 - 150
2441108	Carbaryl	52.2	46.3	P/P	40 - 150
2441108	Carbofuran	51.7	59.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P435875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441108	Methiocarb	67.3	56.7	P/P	40 - 150
2441108	Methomyl	76.3	71.0	P/P	40 - 150
2441108	Oxamyl	88.2	81.0	P/P	40 - 150
2441108	Propoxur	50.5	61.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441109	2,4-D	132	136	P/P	40 - 150
2441109	2,4,5-T	131	109	P/P	40 - 150
2441109	Acetaminophen	88.0	88.8	P/P	30 - 150
2441109	Acetamiprid	75.7	74.3	P/P	40 - 150
2441109	Afidopyropen	58.2	44.2	P/P	30 - 150
2441109	Bentazon	70.7	67.6	P/P	30 - 150
2441109	Benzovindiflupyr	113	102	P/P	40 - 150
2441109	Carbamazepine	69.8	72.0	P/P	40 - 150
2441109	Clothianidin	106	95.6	P/P	40 - 150
2441109	Dinotefuran	108	111	P/P	40 - 150
2441109	Diuron	42.6	61.3	P/P	40 - 150
2441109	Fenuron	73.2	73.3	P/P	40 - 150
2441109	Fluridone	68.6	63.2	P/P	40 - 150
2441109	Hydrocodone	80.0	81.1	P/P	40 - 150
2441109	Ibuprofen	63.8	53.8	P/P	40 - 150
2441109	Imazapyr	91.3	86.7	P/P	40 - 150
2441109	Imidacloprid	144	142	P/P	40 - 150
2441109	Linuron	58.9	56.9	P/P	40 - 150
2441109	Mandestrobin	79.9	81.0	P/P	40 - 150
2441109	MCPP	104	118	P/P	40 - 150
2441109	Naproxen	79.9	97.6	P/P	40 - 150
2441109	Primidone	92.5	92.0	P/P	40 - 150
2441109	Pyraclostrobin	66.6	84.4	P/P	40 - 150
2441109	Silvex	59.6	69.9	P/P	40 - 150
2441109	Thiamethoxam	109	109	P/P	40 - 150
2441109	Tolfenpyrad	39.7	49.0	P/P	30 - 150
2441109	Triclopyr	103	108	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435922

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441886	Acesulfame K	91.6	97.0	P/P	40 - 150
2441886	AMPA	77.9	80.9	P/P	40 - 150
2441886	Endothall	88.1	85.3	P/P	40 - 150
2441886	Glufosinate	100	99.7	P/P	40 - 150
2441886	Glyphosate	101	103	P/P	40 - 150
2441886	Sucralose	104	119	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P436026

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

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P436026

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442288	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442303	Organic Carbon	92.9	95.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442378	Color (true)	10.5	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442302	Turbidity	1.07	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442501	Chloride	0.782	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442501	Sulfate	0.485	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436136

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442380	Ammonia-N	2.37	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442390	Kjeldahl Nitrogen	2.56	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442356	NO2NO3-N	0.992	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436113

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442389	Total-P	0.257	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442416	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	192	Spike	F	0 - 35
2442416	Acetochlor	18.1	Spike	P	0 - 28
2442416	Alachlor	3.27	Spike	P	0 - 30
2442416	Ametryn	0.398	Spike	P	0 - 32
2442416	Atrazine	4.61	Spike	P	0 - 33
2442416	Atrazine Desethyl	8.62	Spike	P	0 - 36
2442416	Avobenzone	13.8	Spike	P	0 - 35
2442416	Azinphos Methyl	91.3	Spike	F	0 - 62
2442416	Azoxystrobin	20.6	Spike	P	0 - 39
2442416	Bromacil	8.00	Spike	P	0 - 33
2442416	Butylate	18.0	Spike	P	0 - 51
2442416	Caffeine	1.55	Spike	P	0 - 100
2442416	Carbophenothion	18.6	Spike	P	0 - 34
2442416	Carfentrazone Ethyl	24.6	Spike	P	0 - 33
2442416	Chlorfenapyr	6.04	Spike	P	0 - 28
2442416	Chlorpyrifos Ethyl	10.1	Spike	P	0 - 31
2442416	Chlorpyrifos Methyl	25.0	Spike	P	0 - 27
2442416	Coumaphos	4.32	Spike	P	0 - 62
2442416	Cyanazine	17.9	Spike	P	0 - 48
2442416	Cyprodinil	7.19	Spike	P	0 - 29
2442416	Dechlorane 602	7.89	Spike	P	0 - 60
2442416	Dechlorane 603	19.9	Spike	P	0 - 40
2442416	Dechlorane Plus	4.09	Spike	P	0 - 38
2442416	Demeton	5.47	Spike	P	0 - 33
2442416	Diazinon	6.46	Spike	P	0 - 32
2442416	Difenoconazole	23.8	Spike	P	0 - 71
2442416	Dimethenamid	23.0	Spike	P	0 - 60
2442416	Dimethomorph	12.8	Spike	P	0 - 61
2442416	Disulfoton	7.66	Spike	P	0 - 30
2442416	Dithiopyr	0.870	Spike	P	0 - 28
2442416	EPTC	16.6	Spike	P	0 - 56
2442416	Ethion	40.7	Spike	P	0 - 79
2442416	Ethoprop	6.77	Spike	P	0 - 31
2442416	Etridiazole	4.48	Spike	P	0 - 43
2442416	Fenamiphos	5.14	Spike	P	0 - 43
2442416	Fenbuconazole	10.2	Spike	P	0 - 79
2442416	Fipronil	9.92	Spike	P	0 - 46
2442416	Fipronil Desulfinyl	1.26	Spike	P	0 - 36
2442416	Fipronil Sulfide	10.5	Spike	P	0 - 34
2442416	Fipronil Sulfone	15.4	Spike	P	0 - 47
2442416	Fluazifop-P-butyl	7.40	Spike	P	0 - 38
2442416	Fludioxonil	19.6	Spike	P	0 - 29
2442416	Flumioxazin	45.9	Spike	P	0 - 63
2442416	Flutolanil	13.1	Spike	P	0 - 36
2442416	Fluxapyroxad	23.5	Spike	P	0 - 65
2442416	Fonofos	14.2	Spike	P	0 - 35
2442416	Hexabromobenzene	44.8	Spike	F	0 - 41
2442416	Hexazinone	8.26	Spike	P	0 - 31
2442416	Imazalil	15.5	Spike	P	0 - 52
2442416	Iprodione	3.95	Spike	P	0 - 49
2442416	Loratadine	4.90	Spike	P	0 - 59

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442416	Malathion	8.06	Spike	P	0 - 77
2442416	Metalaxyl	11.7	Spike	P	0 - 76
2442416	Metolachlor	9.83	Spike	P	0 - 29
2442416	Metribuzin	3.69	Spike	P	0 - 51
2442416	Mevinphos	8.73	Spike	P	0 - 31
2442416	Molinate	3.99	Spike	P	0 - 39
2442416	Myclobutanil	18.2	Spike	P	0 - 34
2442416	Naled	17.9	Spike	P	0 - 37
2442416	Napropamide	49.2	Spike	P	0 - 100
2442416	Norflurazon	19.8	Spike	P	0 - 54
2442416	Octinoxate	5.30	Spike	P	0 - 35
2442416	Oxadiazon	8.28	Spike	P	0 - 34
2442416	Oxybenzone	6.66	Spike	P	0 - 35
2442416	Oxyfluorfen	6.37	Spike	P	0 - 28
2442416	Parathion Ethyl	23.5	Spike	P	0 - 31
2442416	Parathion Methyl	18.4	Spike	P	0 - 29
2442416	PBB-153	153	Spike	F	0 - 49
2442416	PBDE-47	5.57	Spike	P	0 - 36
2442416	PBDE-99	119	Spike	F	0 - 46
2442416	Pendimethalin	5.84	Spike	P	0 - 31
2442416	Pentabromotoluene	17.6	Spike	F	0 - 16
2442416	Phenytol	24.0	Spike	P	0 - 100
2442416	Phorate	33.7	Spike	P	0 - 36
2442416	Prodiamine	3.16	Spike	P	0 - 68
2442416	Prometon	2.59	Spike	P	0 - 35
2442416	Prometryn	10.6	Spike	P	0 - 33
2442416	Pronamide	13.1	Spike	P	0 - 24
2442416	Propanil	12.2	Spike	P	0 - 28
2442416	Propargite	38.2	Spike	P	0 - 53
2442416	Propiconazole	6.04	Spike	P	0 - 44
2442416	Pyraflufen Ethyl	37.0	Spike	P	0 - 61
2442416	Pyridaben	42.5	Spike	P	0 - 43
2442416	Pyriproxyfen	31.7	Spike	P	0 - 82
2442416	Simazine	11.9	Spike	P	0 - 29
2442416	Stirophos	22.4	Spike	P	0 - 100
2442416	Sulfentrazone	12.8	Spike	P	0 - 64
2442416	Tebuconazole	52.2	Spike	P	0 - 76
2442416	Terbufos	8.61	Spike	P	0 - 29
2442416	Terbuthylazine	6.75	Spike	P	0 - 28
2442416	Tetradecachloro-m-terphenyl	1.46	Spike	P	0 - 42
2442416	Thiobencarb	6.58	Spike	P	0 - 26
2442416	Tri-o-cresyl Phosphate	4.52	Spike	P	0 - 24
2442416	Triadimefon	9.28	Spike	P	0 - 40
2442416	Tris(1-chloro-2-propyl) phosphate (TCPP)	5.67	Spike	P	0 - 30
2442416	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	4.03	Spike	P	0 - 22
2442416	Tris(2-chloroethyl) phosphate (TCEP)	3.38	Spike	P	0 - 15

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442830	Aldrin	1.80	Spike	P	0 - 41
2442830	Alpha-BHC	14.4	Spike	P	0 - 25
2442830	Alpha-Chlordane	21.8	Spike	P	0 - 32
2442830	Beta-BHC	7.46	Spike	P	0 - 33
2442830	Beta-Cyfluthrin	2.61	Spike	P	0 - 43
2442830	Bifenthrin	1.67	Spike	P	0 - 52
2442830	Chlorothalonil	21.3	Spike	P	0 - 82
2442830	Cis-Nonachlor	17.9	Spike	P	0 - 33
2442830	Cypermethrin	5.89	Spike	P	0 - 51
2442830	Dacthal	16.1	Spike	P	0 - 27
2442830	DDD-p,p'	13.6	Spike	P	0 - 39
2442830	DDE-p,p'	19.8	Spike	P	0 - 31
2442830	DDT-p,p'	15.5	Spike	P	0 - 29
2442830	Delta-BHC	0.730	Spike	P	0 - 35
2442830	Deltamethrin	4.09	Spike	P	0 - 100
2442830	Dichlobenil	27.1	Spike	P	0 - 40
2442830	Dicofol	5.52	Spike	P	0 - 37
2442830	Dieldrin	11.1	Spike	P	0 - 27
2442830	Endosulfan I	14.9	Spike	P	0 - 23
2442830	Endosulfan II	3.47	Spike	P	0 - 34
2442830	Endosulfan Sulfate	21.9	Spike	P	0 - 36
2442830	Endrin	20.5	Spike	P	0 - 45
2442830	Endrin Aldehyde	19.9	Spike	P	0 - 76
2442830	Endrin Ketone	14.3	Spike	P	0 - 43
2442830	Esfenvalerate	2.65	Spike	P	0 - 51
2442830	Ethalfuralin	4.73	Spike	P	0 - 22
2442830	Fenpropathrin	19.6	Spike	P	0 - 49
2442830	Gamma-BHC	2.98	Spike	P	0 - 28
2442830	Gamma-Chlordane	4.51	Spike	P	0 - 40
2442830	Heptachlor	3.32	Spike	P	0 - 29
2442830	Heptachlor Epoxide	5.63	Spike	P	0 - 33
2442830	Hexachlorobenzene	15.0	Spike	P	0 - 36
2442830	Kepone	2.93	Spike	P	0 - 85
2442830	Lambda-Cyhalothrin	9.85	Spike	P	0 - 55
2442830	Methoprene	9.42	Spike	P	0 - 53
2442830	Methoxychlor	15.5	Spike	P	0 - 50
2442830	MGK-264	2.67	Spike	P	0 - 43
2442830	Mirex	5.91	Spike	P	0 - 40
2442830	Oxychlordane	20.5	Spike	P	0 - 31
2442830	Permethrin	9.32	Spike	P	0 - 50
2442830	Phenothrin	0.457	Spike	P	0 - 58
2442830	Piperonyl Butoxide	26.2	Spike	P	0 - 100
2442830	Prallethrin	8.44	Spike	P	0 - 39
2442830	Tau-Fluvalinate	4.62	Spike	P	0 - 54
2442830	Tetramethrin	3.20	Spike	P	0 - 51
2442830	Trans-Nonachlor	1.58	Spike	P	0 - 39
2442830	Triclosan Methyl	20.7	Spike	P	0 - 31
2442830	Trifluralin	18.6	Spike	P	0 - 22
2443209	PCB-1016	5.42	Spike	P	0 - 25
2443209	PCB-1260	1.43	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P435920

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443209	Chlordane	9.22	Spike	P	0 - 28
2443209	Toxaphene	17.2	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P435875

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441108	3-Hydroxycarbofuran	26.2	Spike	P	0 - 30
2441108	Aldicarb	6.03	Spike	P	0 - 30
2441108	Aldicarb Sulfone	6.97	Spike	P	0 - 30
2441108	Aldicarb Sulfoxide	2.88	Spike	P	0 - 30
2441108	Carbaryl	12.0	Spike	P	0 - 30
2441108	Carbofuran	14.8	Spike	P	0 - 30
2441108	Methiocarb	17.1	Spike	P	0 - 30
2441108	Methomyl	7.23	Spike	P	0 - 30
2441108	Oxamyl	8.51	Spike	P	0 - 30
2441108	Propoxur	18.7	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P435876

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441109	2,4-D	3.14	Spike	P	0 - 30
2441109	2,4,5-T	17.7	Spike	P	0 - 30
2441109	Acetaminophen	0.884	Spike	P	0 - 30
2441109	Acetamiprid	1.97	Spike	P	0 - 30
2441109	Afidopyropen	27.2	Spike	P	0 - 30
2441109	Bentazon	2.77	Spike	P	0 - 30
2441109	Benzovindiflupyr	9.92	Spike	P	0 - 30
2441109	Carbamazepine	3.11	Spike	P	0 - 30
2441109	Clothianidin	10.1	Spike	P	0 - 30
2441109	Dinotefuran	1.67	Spike	P	0 - 30
2441109	Diuron	36.0	Spike	F	0 - 30
2441109	Fenuron	0.162	Spike	P	0 - 30
2441109	Fluridone	8.22	Spike	P	0 - 30
2441109	Hydrocodone	1.46	Spike	P	0 - 30
2441109	Ibuprofen	16.9	Spike	P	0 - 30
2441109	Imazapyr	5.18	Spike	P	0 - 30
2441109	Imidacloprid	0.920	Spike	P	0 - 30
2441109	Linuron	3.45	Spike	P	0 - 30
2441109	Mandestrobin	1.44	Spike	P	0 - 30
2441109	MCPP	12.4	Spike	P	0 - 30
2441109	Naproxen	20.0	Spike	P	0 - 30
2441109	Primidone	0.589	Spike	P	0 - 30
2441109	Pyraclostrobin	23.6	Spike	P	0 - 30
2441109	Silvex	16.0	Spike	P	0 - 30
2441109	Thiamethoxam	0.298	Spike	P	0 - 30
2441109	Tolfenpyrad	21.0	Spike	P	0 - 30
2441109	Triclopyr	4.40	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P435922

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441886	Acesulfame K	5.55	Spike	P	0 - 30
2441886	AMPA	3.76	Spike	P	0 - 30
2441886	Endothall	3.20	Spike	P	0 - 30
2441886	Glufosinate	0.523	Spike	P	0 - 30
2441886	Glyphosate	2.17	Spike	P	0 - 30
2441886	Sucralose	12.6	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P436023

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442288	Total Alkalinity	1.11	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441657	TDS	4.71	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436026

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442288	Fluoride	0.506	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P436111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442303	Organic Carbon	1.83	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2442411
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	67.8	P	30 - 160

Lab Sample ID: 2442412
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	139	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.6	P	30 - 160
EPA 8321B	Diuron-d6	79.4	P	30 - 160
EPA 8321B	Endothall-d6	82.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	48.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	54.0	P	30 - 160
EPA 8321B	Primidone-d5	76.6	P	30 - 160
EPA 8321B	Sucralose-d6	129	P	30 - 160

Lab Sample ID: 2442413
Field Sample ID: FB_10022023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	92.8	P	30 - 160

Lab Sample ID: 2442414
Field Sample ID: FB_10022023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.3	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160
EPA 8321B	Endothall-d6	82.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	100	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.6	P	30 - 160
EPA 8321B	Primidone-d5	89.7	P	30 - 160
EPA 8321B	Sucralose-d6	142	P	30 - 160

Lab Sample ID: 2442415
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	63.8	P	37 - 129
EPA 8270E	Decachlorobiphenyl	60.9	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	49.7	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	46.4	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	45.0	P	28 - 102
EPA 8276	PCNB	60.4	P	49 - 115

Lab Sample ID: 2442416
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	75.2	P	20 - 200

Quality Assurance Report Surrogates

Lab Sample ID: 2442416
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	105	P	58 - 137
EPA 8270E	Terbufos-d10	87.3	P	50 - 134
EPA 8270E	Terphenyl-d14	104	P	44 - 134

Lab Sample ID: 2442417
Field Sample ID: FB_10022023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	77.5	P	37 - 129
EPA 8270E	Decachlorobiphenyl	68.3	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	61.3	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	63.4	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	52.4	P	28 - 102
EPA 8276	PCNB	72.4	P	49 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121920

Included Lab Sample IDs: 2442403

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

Reference Method: DEP SOP: NU-094-1

Run ID: A121921

Included Lab Sample IDs: 2442403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	98.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121948

Included Lab Sample IDs: 2442403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.7	98.8	P/P	90 - 110
Sulfate	100	99.8	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121975

Included Lab Sample IDs: 2442403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.7	96.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121975

Included Lab Sample IDs: 2442403

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

Reference Method: EPA 8321B

Run ID: A121992

Included Lab Sample IDs: 2442412, 2442414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	96.5	103	P/P	60 - 160
Endothall	89.4	90.5	P/P	60 - 160
Glufosinate	70.5	89.9	P/P	60 - 160
Glyphosate	90.5	108	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A121999

Included Lab Sample IDs: 2442404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	96.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A122005

Included Lab Sample IDs: 2442412, 2442414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.1	79.1	P/P	50 - 150
2,4,5-T	105	93.8	P/P	50 - 150
3-Hydroxycarbofuran	116	112	P/P	60 - 150
Acetaminophen	110	111	P/P	60 - 160
Acetamiprid	111	112	P/P	50 - 150
Afidopyropen	116	98.8	P/P	50 - 150
Aldicarb	106	97.7	P/P	60 - 150
Aldicarb Sulfone	113	119	P/P	50 - 150
Aldicarb Sulfoxide	107	109	P/P	50 - 150
Bentazon	136	153	P/P	50 - 160
Benzovindiflupyr	99.5	103	P/P	50 - 150
Carbamazepine	117	111	P/P	60 - 150
Carbaryl	111	89.7	P/P	60 - 150
Carbofuran	118	115	P/P	50 - 150
Clothianidin	127	149	P/P	60 - 150
Dinotefuran	113	109	P/P	50 - 150
Diuron	88.6	117	P/P	60 - 160
Fenuron	111	111	P/P	60 - 150
Fluridone	103	106	P/P	60 - 160
Hydrocodone	128	118	P/P	60 - 150
Ibuprofen	96.3	80.0	P/P	50 - 160
Imazapyr	82.5	98.1	P/P	50 - 150
Imidacloprid	104	126	P/P	60 - 150
Linuron	98.4	91.3	P/P	60 - 150
Mandestrobin	104	91.7	P/P	50 - 150
MCPP	95.9	87.1	P/P	50 - 150
Methiocarb	108	96.2	P/P	50 - 150
Methomyl	106	109	P/P	50 - 150
Naproxen	101	79.7	P/P	50 - 160
Oxamyl	112	116	P/P	50 - 150
Primidone	140	120	P/P	60 - 150
Propoxur	117	115	P/P	50 - 150
Pyraclostrobin	104	104	P/P	60 - 150
Silvex	97.2	94.2	P/P	50 - 150
Thiamethoxam	118	114	P/P	50 - 150
Tolfenpyrad	85.7	75.6	P/P	60 - 150
Triclopyr	97.8	92.4	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122010

Included Lab Sample IDs: 2442404

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

Reference Method: EPA 8321B

Run ID: A122025

Included Lab Sample IDs: 2442412, 2442414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	97.8	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A122025

Included Lab Sample IDs: 2442412, 2442414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	107	107	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122031

Included Lab Sample IDs: 2442404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122091

Included Lab Sample IDs: 2442404

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

Reference Method: EPA 8270E

Run ID: A122158

Included Lab Sample IDs: 2442416

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.4		P	80 - 120
Avobenzene	94.0		P	80 - 120
Dechlorane 602	98.3		P	80 - 120
Dechlorane 603	99.2		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Hexabromobenzene	94.1		P	80 - 120
Octinoxate	97.0		P	80 - 120
Oxybenzone	101		P	80 - 120
PBB-153	98.7		P	80 - 120
PBDE-47	94.8		P	80 - 120
PBDE-99	96.0		P	80 - 120
Pentabromotoluene	105		P	80 - 120
Tetradecachloro-m-terphenyl	98.4		P	80 - 120
Tri-o-cresyl Phosphate	99.2		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	104		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	99.4		P	80 - 120

Reference Method: EPA 8276

Run ID: A122163

Included Lab Sample IDs: 2442415, 2442417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	88.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122164

Included Lab Sample IDs: 2442404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	99.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122187

Included Lab Sample IDs: 2442415, 2442417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.6		P	80 - 120
PCB-1260	95.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122226

Included Lab Sample IDs: 2442415, 2442417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.8		P	80 - 120
Alpha-BHC	105		P	80 - 120
Alpha-Chlordane	110		P	80 - 120
Beta-BHC	87.5		P	80 - 120
Beta-Cyfluthrin	104		P	80 - 120
Bifenthrin	91.1		P	80 - 120
Chlorothalonil	82.1		P	80 - 120
Cis-Nonachlor	117		P	80 - 120
Cypermethrin	85.8		P	80 - 120
Dacthal	110		P	80 - 120
DDD-p,p'	97.1		P	80 - 120
DDE-p,p'	92.6		P	80 - 120
DDT-p,p'	97.1		P	80 - 120
Delta-BHC	91.7		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	116		P	80 - 120
Dicofol	89.7		P	80 - 120
Dieldrin	95.3		P	80 - 120
Endosulfan I	97.3		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	91.0		P	80 - 120
Endrin	98.7		P	80 - 120
Endrin Aldehyde	104		P	80 - 120
Endrin Ketone	100		P	80 - 120
Esfenvalerate	106		P	80 - 120
Ethalfuralin	99.1		P	80 - 120
Fenpropathrin	87.7		P	80 - 120
Gamma-BHC	99.6		P	80 - 120
Gamma-Chlordane	107		P	80 - 120
Heptachlor	89.0		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	109		P	80 - 120
Kepone	116		P	80 - 120
Lambda-Cyhalothrin	113		P	80 - 120
Methoprene	94.1		P	80 - 120
Methoxychlor	94.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A122226

Included Lab Sample IDs: 2442415, 2442417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MGK-264	106		P	80 - 120
Mirex	114		P	80 - 120
Oxychlordane	99.7		P	80 - 120
Permethrin	108		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	89.4		P	80 - 120
Prallethrin	110		P	80 - 120
Tau-Fluvalinate	99.2		P	80 - 120
Tetramethrin	88.8		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	91.9		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122304

Included Lab Sample IDs: 2442416

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	93.6		P	80 - 120
Alachlor	97.4		P	80 - 120
Ametryn	99.2		P	80 - 120
Atrazine	96.0		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	81.3		P	80 - 120
Azoxystrobin	92.2		P	80 - 120
Bromacil	97.8		P	80 - 120
Butylate	103		P	80 - 120
Caffeine	107		P	80 - 120
Carbophenothion	98.1		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	86.0		P	80 - 120
Chlorpyrifos Ethyl	91.9		P	80 - 120
Chlorpyrifos Methyl	82.2		P	80 - 120
Coumaphos	107		P	80 - 120
Cyanazine	100		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	86.4		P	80 - 120
Diazinon	113		P	80 - 120
Difenoconazole	85.3		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	105		P	80 - 120
Disulfoton	117		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	101		P	80 - 120
Ethion	93.1		P	80 - 120
Ethoprop	95.2		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	74.0*		F	80 - 120
Fenbuconazole	103		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122304
Included Lab Sample IDs: 2442416

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Sulfide	109		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	94.6		P	80 - 120
Fludioxonil	95.4		P	80 - 120
Flumioxazin	90.3		P	80 - 120
Flutolanil	98.4		P	80 - 120
Fluxapyroxad	109		P	80 - 120
Fonofos	106		P	80 - 120
Hexazinone	98.3		P	80 - 120
Imazalil	98.7		P	80 - 120
Iprodione	98.0		P	80 - 120
Loratadine	85.5		P	80 - 120
Malathion	90.2		P	80 - 120
Metaxyl	94.4		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	107		P	80 - 120
Mevinphos	97.9		P	80 - 120
Molinate	89.1		P	80 - 120
Myclobutanil	90.1		P	80 - 120
Naled	99.6		P	80 - 120
Napropamide	111		P	80 - 120
Norflurazon	86.2		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	83.5		P	80 - 120
Parathion Ethyl	92.6		P	80 - 120
Parathion Methyl	89.2		P	80 - 120
Pendimethalin	91.9		P	80 - 120
Phenytoin	82.7		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	96.3		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	86.8		P	80 - 120
Propargite	73.4*		F	80 - 120
Propiconazole	95.2		P	80 - 120
Pyraflufen Ethyl	107		P	80 - 120
Pyridaben	73.4*		F	80 - 120
Pyriproxyfen	105		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	109		P	80 - 120
Sulfentrazone	99.6		P	80 - 120
Tebuconazole	104		P	80 - 120
Terbufos	112		P	80 - 120
Terbutylazine	106		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	100		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	100				10.5	
EPA 180.1 Rev. 2.0	Turbidity	105				1.07	
EPA 300.0 Rev. 2.1	Chloride	97.3	104	105		0.782	
	Sulfate	93.1	95.9	99.7		0.485	
EPA 350.1 Rev. 2.0	Ammonia-N	101	102	99.4			2.37
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	98.2	101			2.56
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	97.5	99.0			0.992
EPA 365.1 Rev. 2.0	Total-P	102	107	107			0.257
EPA 8270E	2-Ethylhexyl	17.5	1.22	61.7			192
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	94.8	81.7	98.0			18.1
	Alachlor	103	94.8	91.8			3.27
	Aldrin	50.4	44.1	44.9			1.80
	Alpha-BHC	86.0	85.7	73.0			14.4
	Alpha-Chlordane	92.1	107	86.2			21.8
	Ametryn	123	142	141			0.398
	Atrazine	102	96.5	101			4.61
	Atrazine Desethyl	106	89.7	97.8			8.62
	Avobenzone	131	118	103			13.8
	Azinphos Methyl	93.1	107	39.8			91.3
	Azoxystrobin	98.8	95.4	117			20.6
	Beta-BHC	109	124	115			7.46
	Beta-Cyfluthrin	70.0	69.6	67.8			2.61
	Bifenthrin	49.5	42.7	43.4			1.67
	Bromacil	89.9	101	110			8.00
	Butylate	71.2	60.9	72.9			18.0
	Caffeine	101	119	117			1.55
	Carbophenothion	95.4	93.4	112			18.6
	Carfentrazone Ethyl	114	97.9	125			24.6
	Chlorfenapyr	91.1	83.4	88.6			6.04
	Chlorothalonil	124	105	130			21.3
	Chlorpyrifos Ethyl	109	108	119			10.1
	Chlorpyrifos Methyl	93.1	87.6	113			25.0
	Cis-Nonachlor	84.7	75.4	90.2			17.9
	Coumaphos	116	108	113			4.32
	Cyanazine	125	108	129			17.9
	Cypermethrin	47.4	44.8	47.6			5.89
	Cyprodinil	127	115	124			7.19
	Dacthal	86.6	78.5	93.1			16.1
	DDD-p,p'	59.0	55.2	63.2			13.6
	DDE-p,p'	51.5	50.3	61.3			19.8
	DDT-p,p'	63.3	59.5	69.5			15.5
	Dechlorane 602	79.7	55.2	51.0			7.89
	Dechlorane 603	68.9	70.6	86.1			19.9
	Dechlorane Plus	59.1	62.6	60.1			4.09
	Delta-BHC	142	153	154			0.730
	Deltamethrin	81.7	88.3	91.9			4.09
	Demeton	59.3	59.5	62.8			5.47
	Diazinon	124	127	135			6.46
	Dichlobenil	78.7	66.7	87.6			27.1
	Dicofol	77.0	76.5	80.8			5.52
	Dieldrin	59.5	55.9	62.9			11.1
	Difenoconazole	61.5	87.9	69.2			23.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Dimethenamid	104	81.7	103			23.0
	Dimethomorph	213	319	280			12.8
	Disulfoton	126	123	114			7.66
	Dithiopyr	107	103	104			0.870
	Endosulfan I	66.7	59.3	69.3			14.9
	Endosulfan II	68.6	76.5	79.2			3.47
	Endosulfan Sulfate	93.4	82.9	103			21.9
	Endrin	55.5	56.7	69.6			20.5
	Endrin Aldehyde	82.4	71.1	86.8			19.9
	Endrin Ketone	91.6	88.3	102			14.3
	EPTC	66.3	64.1	54.3			16.6
	Esfenvalerate	80.6	79.3	81.4			2.65
	Ethalfuralin	76.2	54.1	57.2			4.73
	Ethion	76.0	32.5	21.5			40.7
	Ethoprop	82.7	90.6	84.7			6.77
	Etridiazole	71.0	68.8	65.8			4.48
	Fenamiphos	74.7	63.4	66.7			5.14
	Fenbuconazole	84.9	106	95.4			10.2
	Fenpropathrin	60.6	54.9	66.8			19.6
	Fipronil	109	107	96.8			9.92
	Fipronil Desulfinyl	94.8	100	102			1.26
	Fipronil Sulfide	100	105	94.6			10.5
	Fipronil Sulfone	99.9	98.1	83.5			15.4
	Fluazifop-P-butyl	93.5	108	100			7.40
	Fludioxonil	95.0	97.5	80.2			19.6
	Flumioxazin	36.7	63.1	101			45.9
	Flutolanil	88.6	83.0	72.9			13.1
	Fluxapyroxad	89.0	70.0	55.3			23.5
	Fonofos	106	126	109			14.2
	Gamma-BHC	109	100	97.0			2.98
	Gamma-Chlordane	99.4	94.3	99.0			4.51
	Heptachlor	57.3	48.4	50.0			3.32
	Heptachlor Epoxide	75.7	70.6	74.7			5.63
	Hexabromobenzene	73.3	57.3	90.4			44.8
	Hexachlorobenzene	64.6	60.9	70.8			15.0
	Hexazinone	101	93.9	86.5			8.26
	Imazalil	80.5	97.0	83.0			15.5
	Iprodione	89.9	92.0	88.4			3.95
	Kepone	88.8	98.5	101			2.93
	Lambda-Cyhalothrin	37.2	37.1	33.7			9.85
	Loratadine	136	213	203			4.90
	Malathion	114	115	106			8.06
	Metalaxyl	93.4	102	91.1			11.7
	Methoprene	45.0	35.4	38.9			9.42
	Methoxychlor	78.7	75.8	88.5			15.5
	Metolachlor	106	106	93.2			9.83
	Metribuzin	50.0	105	109			3.69
	Mevinphos	103	123	113			8.73
	MGK-264	99.0	98.4	101			2.67
	Mirex	50.4	55.7	52.5			5.91
	Molinate	64.3	62.7	65.2			3.99
	Myclobutanil	94.8	83.7	69.8			18.2
	Naled	39.5	47.5	39.7			17.9
	Napropamide	90.9	71.0	43.0			49.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Norflurazon	81.1	81.1	66.5		19.8
	Octinoxate	115	100	95.2		5.30
	Oxadiazon	74.9	82.1	75.6		8.28
	Oxybenzone	130	121	113		6.66
	Oxychlordane	64.7	51.5	63.2		20.5
	Oxyfluorfen	106	107	101		6.37
	Parathion Ethyl	98.6	104	82.3		23.5
	Parathion Methyl	143	151	125		18.4
	PBB-153	22.0	10.8	80.5		153
	PBDE-47	92.2	63.0	66.6		5.57
	PBDE-99	46.1	12.5	49.1		119
	PCB-1016	69.2	71.0	74.9		5.42
	PCB-1260	76.3	71.2	72.2		1.43
	Pendimethalin	124	121	114		5.84
	Pentabromotoluene	90.9	73.0	87.1		17.6
	Permethrin	62.9	57.9	63.6		9.32
	Phenothrin	53.3	49.6	49.3		0.457
	Phenytoin	22.8	28.0	22.0		24.0
	Phorate	75.4	102	72.6		33.7
	Piperonyl Butoxide	91.1	76.2	99.2		26.2
	Prallethrin	63.1	72.1	66.2		8.44
	Prodiamine	40.1	46.9	48.4		3.16
	Prometon	111	122	119		2.59
	Prometryn	136	147	132		10.6
	Pronamide	121	115	100		13.1
	Propanil	102	95.2	84.2		12.2
	Propargite	49.1	34.5	23.5		38.2
	Propiconazole	102	94.0	88.5		6.04
	Pyraflufen Ethyl	98.9	87.9	60.4		37.0
	Pyridaben	63.2	58.9	90.7		42.5
	Pyriproxyfen	84.7	77.8	56.5		31.7
	Simazine	101	114	102		11.9
	Stirophos	76.6	54.2	43.3		22.4
	Sulfentrazone	38.5	64.0	72.7		12.8
	Tau-Fluvalinate	67.6	69.4	72.7		4.62
	Tebuconazole	62.9	39.9	23.4		52.2
	Terbufos	105	118	108		8.61
	Terbutylazine	111	113	106		6.75
	Tetradecachloro-m-terphenyl	67.1	101	99.1		1.46
	Tetramethrin	72.4	69.4	71.7		3.20
	Thiobencarb	95.2	91.6	85.8		6.58
	Trans-Nonachlor	64.1	65.0	66.0		1.58
	Tri-o-cresyl Phosphate	116	107	102		4.52
	Triadimefon	93.6	79.8	72.7		9.28
	Triclosan Methyl	67.1	57.6	70.9		20.7
	Trifluralin	63.5	50.4	62.4		18.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	126	124	117		5.67
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	108	101	97.3		4.03
	Tris(2-chloroethyl) phosphate (TCEP)	97.7	94.2	91.0		3.38
EPA 8276	Chlordane	90.2	73.9	81.0		9.22
	Toxaphene	85.9	71.7	85.1		17.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	2,4-D	113	132	136			3.14
	2,4,5-T	110	131	109			17.7
	3-Hydroxycarbofuran	80.5	67.8	52.1			26.2
	Acesulfame K	85.1	91.6	97.0			5.55
	Acetaminophen	74.8	88.0	88.8			0.884
	Acetamiprid	85.7	75.7	74.3			1.97
	Afidopropen	72.0	58.2	44.2			27.2
	Aldicarb	46.9	53.5	50.4			6.03
	Aldicarb Sulfone	101	93.5	87.2			6.97
	Aldicarb Sulfoxide	127	43.2	42.0			2.88
	AMPA	101	77.9	80.9			3.76
	Bentazon	68.5	70.7	67.6			2.77
	Benzovindiflupyr	104	113	102			9.92
	Carbamazepine	74.1	69.8	72.0			3.11
	Carbaryl	63.3	52.2	46.3			12.0
	Carbofuran	80.4	51.7	59.9			14.8
	Clothianidin	89.8	106	95.6			10.1
	Dinotefuran	93.8	108	111			1.67
	Diuron	60.3	42.6	61.3			36.0
	Endothall	87.7	88.1	85.3			3.20
	Fenuron	87.5	73.2	73.3			0.162
	Fluridone	79.8	68.6	63.2			8.22
	Glufosinate	82.5	100	99.7			0.523
	Glyphosate	92.4	101	103			2.17
	Hydrocodone	79.6	80.0	81.1			1.46
	Ibuprofen	75.8	63.8	53.8			16.9
	Imazapyr	75.8	91.3	86.7			5.18
	Imidacloprid	93.9	144	142			0.920
	Linuron	63.5	58.9	56.9			3.45
	Mandestrobin	92.2	79.9	81.0			1.44
	MCPP	114	104	118			12.4
	Methiocarb	61.9	67.3	56.7			17.1
	Methomyl	90.3	76.3	71.0			7.23
	Naproxen	65.1	79.9	97.6			20.0
	Oxamyl	109	88.2	81.0			8.51
	Primidone	85.6	92.5	92.0			0.589
	Propoxur	82.4	50.5	61.0			18.7
	Pyraclostrobin	79.3	66.6	84.4			23.6
	Silvex	80.3	59.6	69.9			16.0
	Sucralose	120	104	119			12.6
	Thiamethoxam	91.2	109	109			0.298
	Tolfenpyrad	45.2	39.7	49.0			21.0
	Triclopyr	102	103	108			4.40
SM 2320 B-2011	Total Alkalinity	94.9				1.11	
SM 2540 C-2015	TDS	98.4				4.71	
SM 2540 D-2015	TSS	106					
SM 4500-F- C-2011	Fluoride	101	101	101			0.506
SM 5310 B-2011	Organic Carbon	97.4	92.9	95.8			1.83

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2442403

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2442403
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2442403
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2442403
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2442404
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2442404
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2442404
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2442404
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2442416
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2442415, 2442417
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2442416
EPA 8270E	PCBs in water matrices by GC/MS/MS	2442415, 2442417
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2442415, 2442417
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2442411, 2442413
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2442412, 2442414
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2442403
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2442403
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2442403
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2442403
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2442404

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	10/03/2023			10/03/2023 15:18	Samantha L Bates	2442403
EPA 180.1 Rev. 2.0	10/03/2023			10/03/2023 14:16	Alexis Price	2442403
EPA 300.0 Rev. 2.1	10/03/2023			10/06/2023 17:27	James L Waggeberby	2442403
EPA 350.1 Rev. 2.0	10/03/2023			10/06/2023 14:25	Ping Hua	2442404
EPA 351.2 Rev. 2.0	10/03/2023	10/13/2023 12:35	Simonne.V. Calhoun	10/16/2023 11:22	Samantha L Bates	2442404
EPA 353.2 Rev. 2.0	10/03/2023			10/11/2023 12:59	Anna M. Plaviak	2442404
EPA 365.1 Rev. 2.0	10/03/2023	10/06/2023 14:30	Alexis Price	10/09/2023 16:58	James L Waggeberby	2442404
EPA 8270E	10/03/2023	10/05/2023 08:00	Fe-Val Siddell	10/09/2023 17:53	Vandana T. Nagar	2442416
	10/03/2023	10/05/2023 08:00	Fe-Val Siddell	10/13/2023 22:44	Arthur Maknenko	2442416
	10/03/2023	10/09/2023 08:00	Fe-Val Siddell	10/12/2023 02:37	Julie Wi	2442415
	10/03/2023	10/09/2023 08:00	Fe-Val Siddell	10/12/2023 03:07	Julie Wi	2442417
	10/03/2023	10/09/2023 08:00	Fe-Val Siddell	10/12/2023 03:42	Julie Wi	2442415
	10/03/2023	10/09/2023 08:00	Fe-Val Siddell	10/12/2023 04:15	Julie Wi	2442417
EPA 8276	10/03/2023	10/09/2023 08:00	Fe-Val Siddell	10/12/2023 08:01	Lipi Saha	2442415
	10/03/2023	10/09/2023 08:00	Fe-Val Siddell	10/12/2023 08:58	Lipi Saha	2442417
EPA 8321B	10/03/2023	10/03/2023 15:00	Hoor Shaik	10/06/2023 03:41	Juyoung Kim	2442411
	10/03/2023	10/03/2023 15:00	Hoor Shaik	10/06/2023 03:58	Juyoung Kim	2442413
	10/03/2023	10/04/2023 11:00	Hoor Shaik	10/06/2023 10:48	Juyoung Kim	2442412
	10/03/2023	10/04/2023 11:00	Hoor Shaik	10/06/2023 11:06	Juyoung Kim	2442414
	10/03/2023	10/05/2023 08:00	Tae K Lee	10/05/2023 13:08	Hana Lee	2442412
	10/03/2023	10/05/2023 08:00	Tae K Lee	10/05/2023 13:21	Hana Lee	2442414
	10/03/2023	10/05/2023 08:00	Tae K Lee	10/06/2023 12:52	Hana Lee	2442412
	10/03/2023	10/05/2023 08:00	Tae K Lee	10/06/2023 13:06	Hana Lee	2442414
SM 2320 B-2011	10/03/2023			10/05/2023 01:39	Adam P Silver	2442403
SM 2540 C-2015	10/03/2023			10/04/2023 15:07	Yijie Li	2442403
SM 2540 D-2015	10/03/2023			10/04/2023 15:07	Yijie Li	2442403
SM 4500-F- C-2011	10/03/2023			10/05/2023 01:39	Adam P Silver	2442403
SM 5310 B-2011	10/03/2023			10/05/2023 19:04	Elise M. Gillis	2442404