

Chemical Analysis Report

SE-DIST-2022-06-09-01

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

Event Description: **St. Lucie**
Request ID: **RQ-2022-05-30-22**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Colin Wright, Program Administrator

Date Certified: 06-JUL-2022 11:58

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Moores Creek @ 2nd

Collection Date/Time: 06/08/2022 08:15

Field ID: G2SE0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333453	EPA 8270E	Oxybenzone**	9.8	U	ng/L	P415088	
		Acetochlor	0.24	U	ng/L	P415088	
		Octinoxate**	20	U	ng/L	P415088	
		Alachlor	0.24	U	ng/L	P415088	
		Avobenzone**	98	U	ng/L	P415088	
		Ametryn	1.2	I	ng/L	P415088	
		Atrazine	12		ng/L	P415088	
		PBDE-47**	3.9	U	ng/L	P415088	
		Atrazine Desethyl	1.5	U	ng/L	P415088	
		PBDE-99**	4.9	U	ng/L	P415088	MS
		Azinphos Methyl	2.0	U	ng/L	P415088	
		Tri-o-cresyl Phosphate**	5.9	U	ng/L	P415088	
		Azoxystrobin**	0.77	I	ng/L	P415088	
		Bromacil	0.49	U	ng/L	P415088	
		2-Ethylhexyl	12	U	ng/L	P415088	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	U	ng/L	P415088	
		Caffeine**	110		ng/L	P415088	
		Carbophenothion	0.20	U	ng/L	P415088	
		Carfentrazone Ethyl**	0.098	U	ng/L	P415088	
		Chlorfenapyr**	0.37	I	ng/L	P415088	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415088	
		Chlorpyrifos Methyl	0.049	U	ng/L	P415088	
		Coumaphos**	0.49	U	ng/L	P415088	
		Cyanazine	3.2	U	ng/L	P415088	
		Cyprodinil**	0.098	U	ng/L	P415088	
		Demeton	1.5	U	ng/L	P415088	
		Diazinon	0.12	U	ng/L	P415088	
		Difenoconazole**	0.59	U	ng/L	P415088	RPD
		Dimethenamid**	0.098	U	ng/L	P415088	
		Dimethomorph**	0.17	U	ng/L	P415088	RPD
		Disulfoton	0.49	U	ng/L	P415088	
		Dithiopyr**	0.17	U	ng/L	P415088	
		EPTC	1.2	U	ng/L	P415088	
		Ethion	0.15	U	ng/L	P415088	
		Ethoprop	0.098	U	ng/L	P415088	
		Etridiazole**	0.15	UJ	ng/L	P415088	LCS
		Fenamiphos	0.49	U	ng/L	P415088	
		Fenbuconazole**	0.17	I	ng/L	P415088	
		Fipronil	1.5		ng/L	P415088	
		Fipronil Desulfinyl**	0.69		ng/L	P415088	
		Fipronil Sulfide	0.44	I	ng/L	P415088	
		Fipronil Sulfone	1.9		ng/L	P415088	
		Fluazifop-P-butyl**	0.098	U	ng/L	P415088	

Field ID: G2SE0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333453	EPA 8270E	Fludioxonil**	0.12	U	ng/L	P415088	
		Flumioxazin**	1.7	U	ng/L	P415088	RPD
		Flutolanil**	0.098	U	ng/L	P415088	
		Fluxapyroxad**	0.098	U	ng/L	P415088	RPD
		Fonofos	0.20	U	ng/L	P415088	
		Hexazinone	0.49	U	ng/L	P415088	
		Imazalil**	3.1		ng/L	P415088	
		Iprodione**	0.59	U	ng/L	P415088	
		Loratadine**	0.098	U	ng/L	P415088	MS, RPD
		Malathion	7.1		ng/L	P415088	
		Metalaxyl	0.73	U	ng/L	P415088	
		Metolachlor	0.82	I	ng/L	P415088	
		Metribuzin	2.4	U	ng/L	P415088	
		Mevinphos	1.0	U	ng/L	P415088	
		Molinate	0.29	U	ng/L	P415088	
		Myclobutanil**	0.24	U	ng/L	P415088	
		Naled**	1.5	U	ng/L	P415088	
		Napropamide**	0.39	U	ng/L	P415088	MS, RPD
		Norflurazon	0.71	I	ng/L	P415088	
		Oxadiazon	3.1		ng/L	P415088	RPD
		Oxyfluorfen**	0.15	U	ng/L	P415088	
		Parathion Ethyl	0.24	U	ng/L	P415088	
		Parathion Methyl	0.54	U	ng/L	P415088	
		Pendimethalin	0.98	U	ng/L	P415088	
		Phenytol**	3.4	U	ng/L	P415088	MS, RPD
		Phorate	0.51	U	ng/L	P415088	
		Prodiamine**	0.17	U	ng/L	P415088	
		Prometon	0.88	U	ng/L	P415088	
		Prometryn	0.20	U	ng/L	P415088	
		Pronamide**	0.15	U	ng/L	P415088	
		Propanil**	0.12	U	ng/L	P415088	
		Propargite**	1.5	U	ng/L	P415088	RPD
		Propiconazole**	6.9		ng/L	P415088	
		Pyraflufen Ethyl**	0.24	U	ng/L	P415088	
		Pyridaben**	0.44	U	ng/L	P415088	
		Pyriproxyfen**	0.12	U	ng/L	P415088	RPD
		Simazine	0.49	U	ng/L	P415088	MS
		Stirophos**	0.12	U	ng/L	P415088	
		Sulfentrazone**	2.6		ng/L	P415088	
		Tebuconazole**	2.0		ng/L	P415088	RPD
		Terbufos	0.098	U	ng/L	P415088	
		Terbuthylazine	0.41	U	ng/L	P415088	
		Thiobencarb**	0.59	U	ng/L	P415088	
		Triadimefon**	0.24	U	ng/L	P415088	

Field ID: G2SE0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Fort Pierce Farm Canal @ Taylor Dairy

Collection Date/Time: 06/08/2022 09:10

Field ID: G2SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333442	DEP SOP: NU-094-1	Color (true)**	95		PCU	P415003	
	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P414996	
	EPA 300.0 Rev. 2.1	Chloride	200		mg Cl/L	P415412	
		Sulfate	63		mg SO4/L	P415417	
	SM 2320 B-2011	Total Alkalinity	101		mg CaCO3/L	P415388	
	SM 2540 C-2011	TDS	550		mg/L	P415490	
	SM 2540 D-2011	TSS	6	I	mg/L	P415429	
	SM 4500-F- C-2011	Fluoride	0.28		mg F/L	P415393	
2333444	EPA 350.1 Rev. 2.0	Ammonia-N	0.099		mg N/L	P415581	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P415353	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P415737	
	EPA 365.1 Rev. 2.0	Total-P	0.46		mg P/L	P415183	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P415362	

Ref. Method and Comment:

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

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333509	EPA 8321B	Imidacloprid	0.065		ug/L	P414950	
		Linuron	0.0040	U	ug/L	P414950	
		Mandestrobin	0.0020	U	ug/L	P414950	
		MCPD	0.0040	U	ug/L	P414950	
		Naproxen	0.0080	U	ug/L	P414950	
		Primidone	0.0040	U	ug/L	P414950	
		Pyraclostrobin	0.0020	U	ug/L	P414950	
		Silvex	0.0040	U	ug/L	P414950	
		Thiamethoxam	0.0072	I	ug/L	P414950	
		Tolfenpyrad	0.0020	U	ug/L	P414950	
		Triclopyr	0.0040	U	ug/L	P414950	
2333510	EPA 8270E	Aldrin	0.70	U	ng/L	P414979	
		Alpha-BHC	0.11	U	ng/L	P414979	
		Alpha-Chlordane	0.22	U	ng/L	P414979	
		PCB-1016	2.2	U	ng/L	P414979	
		Beta-BHC	0.11	U	ng/L	P414979	
		PCB-1221	2.2	U	ng/L	P414979	
		Beta-Cyfluthrin**	1.3	U	ng/L	P414979	
		PCB-1232	2.2	U	ng/L	P414979	
		Bifenthrin**	0.54	U	ng/L	P414979	
		PCB-1242	2.2	U	ng/L	P414979	
		PCB-1248	2.2	U	ng/L	P414979	
		Chlorothalonil	1.3	U	ng/L	P414979	
		PCB-1254	2.2	U	ng/L	P414979	
		Cis-Nonachlor**	0.22	U	ng/L	P414979	
		PCB-1260	2.2	U	ng/L	P414979	
		Cypermethrin	1.6	U	ng/L	P414979	
		Dacthal**	0.16	U	ng/L	P414979	
		DDD-p,p'	0.34	I	ng/L	P414979	
		DDE-p,p'	0.22	U	ng/L	P414979	
		DDT-p,p'	0.27	U	ng/L	P414979	
		Delta-BHC	0.43	UJ	ng/L	P414979	LCS
		Deltamethrin**	1.3	U	ng/L	P414979	
		Dichlobenil**	0.27	U	ng/L	P414979	
		Dicofol	1.3	U	ng/L	P414979	
		Dieldrin	0.43	U	ng/L	P414979	
		Endosulfan I	0.43	U	ng/L	P414979	
		Endosulfan II	0.43	U	ng/L	P414979	
		Endosulfan Sulfate	0.32	U	ng/L	P414979	
		Endrin	0.43	U	ng/L	P414979	
		Endrin Aldehyde	0.81	U	ng/L	P414979	
		Endrin Ketone	0.43	U	ng/L	P414979	
		Esfenvalerate**	0.81	U	ng/L	P414979	
		Ethalfuralin**	0.16	U	ng/L	P414979	
		Fenpropathrin**	0.27	U	ng/L	P414979	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333510	EPA 8270E	Gamma-BHC	0.13	U	ng/L	P414979	LCS, MS
		Gamma-Chlordane	0.22	I	ng/L	P414979	
		Heptachlor	0.22	U	ng/L	P414979	
		Heptachlor Epoxide	0.27	U	ng/L	P414979	
		Hexachlorobenzene**	1.1	U	ng/L	P414979	
		Kepone**	5.4	UJ	ng/L	P414979	
		Lambda-Cyhalothrin**	0.81	U	ng/L	P414979	
		Methoprene**	0.81	U	ng/L	P414979	
		Methoxychlor	0.32	U	ng/L	P414979	
		MGK-264**	0.22	U	ng/L	P414979	
		Mirex	0.76	U	ng/L	P414979	
		Oxychlordane**	0.32	U	ng/L	P414979	
		Permethrin	1.7	U	ng/L	P414979	
		Phenothrin**	0.97	U	ng/L	P414979	
		Piperonyl Butoxide**	1.4		ng/L	P414979	
		Prallethrin**	2.2	U	ng/L	P414979	
		Tau-Fluvalinate**	0.27	U	ng/L	P414979	
		Tetramethrin**	0.81	U	ng/L	P414979	
		Trans-Nonachlor**	0.22	U	ng/L	P414979	
		Triclosan Methyl**	0.16	U	ng/L	P414979	
		Trifluralin	0.22	U	ng/L	P414979	
		Chlordane	2.7	U	ng/L	P414979	
		Toxaphene	16	U	ng/L	P414979	
2333511	EPA 8270E	Oxybenzone**	9.9	U	ng/L	P415088	MS
		Acetochlor	0.25	U	ng/L	P415088	
		Octinoxate**	20	U	ng/L	P415088	
		Alachlor	0.25	U	ng/L	P415088	
		Avobenzone**	99	U	ng/L	P415088	
		Ametryn	0.60	U	ng/L	P415088	
		Atrazine	72		ng/L	P415088	
		PBDE-47**	4.0	U	ng/L	P415088	
		Atrazine Desethyl	8.5		ng/L	P415088	
		PBDE-99**	5.0	UJ	ng/L	P415088	
		Azinphos Methyl	2.0	U	ng/L	P415088	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P415088	
		Azoxystrobin**	3.3		ng/L	P415088	
		Bromacil	1.9	I	ng/L	P415088	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P415088	
		Butylate	0.40	U	ng/L	P415088	
		Caffeine**	24	I	ng/L	P415088	
		Carbophenothion	0.20	U	ng/L	P415088	
		Carfentrazone Ethyl**	0.099	U	ng/L	P415088	
		Chlorfenapyr**	0.17	U	ng/L	P415088	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P415088	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333511	EPA 8270E	Chlorpyrifos Methyl	0.050	U	ng/L	P415088	
		Coumaphos**	0.50	U	ng/L	P415088	
		Cyanazine	3.2	U	ng/L	P415088	
		Cyprodinil**	0.099	U	ng/L	P415088	
		Demeton	1.5	U	ng/L	P415088	
		Diazinon	0.12	U	ng/L	P415088	
		Difenoconazole**	0.60	UJ	ng/L	P415088	RPD
		Dimethenamid**	0.099	U	ng/L	P415088	
		Dimethomorph**	0.17	UJ	ng/L	P415088	RPD
		Disulfoton	0.50	U	ng/L	P415088	
		Dithiopyr**	6.9		ng/L	P415088	
		EPTC	1.2	U	ng/L	P415088	
		Ethion	0.15	U	ng/L	P415088	
		Ethoprop	0.099	U	ng/L	P415088	
		Etridiazole**	0.15	UJ	ng/L	P415088	LCS
		Fenamiphos	0.50	U	ng/L	P415088	
		Fenbuconazole**	0.40	I	ng/L	P415088	
		Fipronil	0.31	I	ng/L	P415088	
		Fipronil Desulfinyl**	0.95		ng/L	P415088	
		Fipronil Sulfide	0.31	I	ng/L	P415088	
		Fipronil Sulfone	0.49	I	ng/L	P415088	
		Fluazifop-P-butyl**	0.099	U	ng/L	P415088	
		Fludioxonil**	0.12	U	ng/L	P415088	
		Flumioxazin**	1.7	UJ	ng/L	P415088	RPD
		Flutolanil**	0.63		ng/L	P415088	
		Fluxapyroxad**	0.36	IJ	ng/L	P415088	RPD
		Fonofos	0.20	U	ng/L	P415088	
		Hexazinone	6.2		ng/L	P415088	
		Imazalil**	0.74	U	ng/L	P415088	
		Iprodione**	0.60	U	ng/L	P415088	
		Loratadine**	0.099	UJ	ng/L	P415088	MS, RPD
		Malathion	0.35	U	ng/L	P415088	
		Metalaxyl	3.4		ng/L	P415088	
		Metolachlor	1.4	I	ng/L	P415088	
		Metribuzin	2.5	U	ng/L	P415088	
		Mevinphos	1.0	U	ng/L	P415088	
		Molinate	0.30	U	ng/L	P415088	
		Myclobutanil**	1.0		ng/L	P415088	
		Naled**	1.5	U	ng/L	P415088	
		Napropamide**	0.40	UJ	ng/L	P415088	MS, RPD
		Norflurazon	45		ng/L	P415088	
		Oxadiazon	2.7E+03	J	ng/L	P415088	RPD
		Oxyfluorfen**	0.15	U	ng/L	P415088	
		Parathion Ethyl	0.25	U	ng/L	P415088	
		Parathion Methyl	0.55	U	ng/L	P415088	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333511	EPA 8270E	Pendimethalin	0.99	U	ng/L	P415088	
		Phenytol**	3.5	UJ	ng/L	P415088	MS, RPD
		Phorate	0.52	U	ng/L	P415088	
		Prodiatone**	0.73		ng/L	P415088	
		Prometon	0.89	U	ng/L	P415088	
		Prometryn	0.20	U	ng/L	P415088	
		Pronamide**	0.15	U	ng/L	P415088	
		Propanil**	0.12	U	ng/L	P415088	
		Propargite**	1.5	UJ	ng/L	P415088	RPD
		Propiconazole**	4.9		ng/L	P415088	
		Pyraflufen Ethyl**	0.25	U	ng/L	P415088	
		Pyridaben**	0.45	U	ng/L	P415088	
		Pyriproxyfen**	0.12	UJ	ng/L	P415088	RPD
		Simazine	0.50	UJ	ng/L	P415088	MS
		Stirophos**	0.12	U	ng/L	P415088	
		Sulfentrazole**	11		ng/L	P415088	
		Tebuconazole**	2.2	J	ng/L	P415088	RPD
		Terbufos	0.099	U	ng/L	P415088	
		Terbutylazine	0.42	U	ng/L	P415088	
		Thiobencarb**	0.60	U	ng/L	P415088	
		Triadimefon**	0.25	U	ng/L	P415088	

Ref. Method and Comment:

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

SM 4500-F- C-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

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

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P415003

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P415004

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414996

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415412

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415417

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415581

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415353

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415737

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415183

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414979

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414979

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414979

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

Reference Method: EPA 8270E

Batch ID: P415088

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415088

Component	Result	Code	Units
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415088

Component	Result	Code	Units
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415088

Component	Result	Code	Units
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P414979

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

Reference Method: EPA 8321B

Batch ID: P414936

Component	Result	Code	Units
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P414950

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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P415081

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: SM 2320 B-2011

Batch ID: P415388

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO3/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P415496

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P415490

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P415429

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415393

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P416136

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P415362

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: P415003

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P415004

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414996

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415412

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415417

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415581

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415353

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415737

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415183

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	74.6		P	10 - 93.0
Alpha-BHC	97.9		P	75 - 106
Alpha-Chlordane	99.3		P	50 - 109
Beta-BHC	81.4		P	36 - 138
Beta-Cyfluthrin	111		P	23 - 167
Bifenthrin	72.8		P	11 - 123
Chlorothalonil	124		P	27 - 190
Cis-Nonachlor	84.5		P	40 - 111
Cypermethrin	97.3		P	25 - 155
Dacthal	105		P	72 - 119
DDD-p,p'	85.6		P	47 - 108
DDE-p,p'	89.1		P	48 - 107
DDT-p,p'	93.6		P	49 - 111
Delta-BHC	140		F	54 - 138
Deltamethrin	135		P	22 - 189
Dichlobenil	89.3		P	32 - 113
Dicofol	88.1		P	50 - 108
Dieldrin	87.1		P	56 - 110
Endosulfan I	94.3		P	60 - 105
Endosulfan II	104		P	50 - 120
Endosulfan Sulfate	108		P	55 - 121
Endrin	98.1		P	31 - 119
Endrin Aldehyde	90.6		P	36 - 116
Endrin Ketone	99.3		P	69 - 177
Esfenvalerate	111		P	10 - 179
Ethalfuralin	92.5		P	49 - 99.0
Fenpropathrin	89.7		P	35 - 119
Gamma-BHC	118		P	69 - 120
Gamma-Chlordane	92.5		P	45 - 107
Heptachlor	71.3		P	41 - 100
Heptachlor Epoxide	89.2		P	58 - 106
Hexachlorobenzene	87.6		P	39 - 100
Kepone	245		F	10 - 191
Lambda-Cyhalothrin	80.4		P	21 - 206
Methoprene	83.1		P	10 - 129
Methoxychlor	96.3		P	61 - 111
MGK-264	101		P	20 - 123
Mirex	73.1		P	10 - 182
Oxychlordane	95.6		P	39 - 110
PCB-1016	67.3		P	49 - 111
PCB-1260	96.7		P	42 - 116
Permethrin	95.4		P	26 - 152
Phenothrin	65.8		P	10 - 109
Piperonyl Butoxide	136		P	19 - 147
Prallethrin	103		P	14 - 109
Tau-Fluvalinate	99.9		P	16 - 134
Tetramethrin	117		P	10 - 125
Trans-Nonachlor	86.3		P	45 - 107
Triclosan Methyl	93.7		P	60 - 110
Trifluralin	90.5		P	44 - 101

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.9		P	50 - 150
Acetochlor	95.9		P	70 - 121
Alachlor	86.7		P	68 - 119
Ametryn	95.9		P	64 - 139
Atrazine	84.3		P	76 - 120
Atrazine Desethyl	46.5		P	44 - 126
Avobenzone	82.3		P	76 - 212
Azinphos Methyl	138		P	43 - 192
Azoxystrobin	106		P	36 - 224
Bromacil	56.0		P	52 - 121
Butylate	52.2		P	28 - 91.0
Caffeine	91.9		P	50 - 134
Carbophenothion	118		P	56 - 129
Carfentrazone Ethyl	114		P	60 - 141
Chlorfenapyr	85.9		P	56 - 115
Chlorpyrifos Ethyl	93.8		P	60 - 118
Chlorpyrifos Methyl	106		P	68 - 119
Coumaphos	155		P	18 - 250
Cyanazine	86.0		P	61 - 250
Cyprodinil	84.4		P	55 - 145
Demeton	80.4		P	30 - 159
Diazinon	93.2		P	70 - 123
Difenoconazole	141		P	49 - 204
Dimethenamid	77.7		P	64 - 115
Dimethomorph	94.3		P	12 - 219
Disulfoton	90.3		P	44 - 125
Dithiopyr	88.3		P	64 - 115
EPTC	55.0		P	28 - 86.0
Ethion	77.8		P	33 - 125
Ethoprop	81.4		P	64 - 116
Etridiazole	115		F	34 - 91.0
Fenamiphos	104		P	12 - 127
Fenbuconazole	110		P	59 - 151
Fipronil	91.5		P	67 - 129
Fipronil Desulfinyl	89.5		P	65 - 127
Fipronil Sulfide	90.8		P	61 - 116
Fipronil Sulfone	99.2		P	55 - 117
Fluazifop-P-butyl	95.5		P	62 - 127
Fludioxonil	93.4		P	62 - 128
Flumioxazin	132		P	33 - 250
Flutolanil	88.9		P	56 - 127
Fluxapyroxad	115		P	45 - 128
Fonofos	86.4		P	62 - 111
Hexazinone	91.1		P	46 - 139
Imazalil	80.9		P	38 - 142
Iprodione	115		P	47 - 135
Loratadine	84.1		P	10 - 244
Malathion	110		P	61 - 139
Metalaxyl	81.0		P	10 - 119
Metolachlor	87.9		P	65 - 118
Metribuzin	80.9		P	51 - 250
Mevinphos	71.7		P	53 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	73.0		P	42 - 96.0
Myclobutanil	99.5		P	55 - 128
Naled	65.5		P	10 - 98.0
Napropamide	77.3		P	49 - 121
Norflurazon	96.1		P	61 - 126
Octinoxate	78.9		P	30 - 159
Oxadiazon	77.5		P	59 - 116
Oxybenzone	75.1		P	61 - 139
Oxyfluorfen	111		P	64 - 137
Parathion Ethyl	87.8		P	70 - 112
Parathion Methyl	105		P	76 - 133
PBDE-47	76.4		P	50 - 150
PBDE-99	75.8		P	50 - 150
Pendimethalin	91.7		P	52 - 117
Phenytoin	18.1		P	10 - 199
Phorate	67.4		P	48 - 121
Prodiamine	97.9		P	26 - 142
Prometon	95.4		P	43 - 123
Prometryn	76.8		P	66 - 127
Pronamide	94.9		P	75 - 121
Propanil	79.4		P	45 - 150
Propargite	110		P	42 - 208
Propiconazole	96.1		P	60 - 125
Pyraflufen Ethyl	107		P	70 - 138
Pyridaben	128		P	35 - 245
Pyriproxyfen	106		P	30 - 149
Simazine	75.1		P	72 - 125
Stirophos	87.4		P	29 - 164
Sulfentrazone	31.3		P	21 - 139
Tebuconazole	100		P	10 - 115
Terbufos	102		P	60 - 123
Terbutylazine	84.1		P	72 - 115
Thiobencarb	81.6		P	31 - 139
Tri-o-cresyl Phosphate	81.0		P	50 - 150
Triadimefon	80.7		P	65 - 116

Reference Method: EPA 8276
Batch ID: P414979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	105		P	61 - 118
Toxaphene	106		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P414936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	99.7		P	40 - 150
Endothall	96.9		P	40 - 150
Glufosinate	94.7		P	40 - 150
Glyphosate	99.2		P	40 - 150
Sucralose	94.6		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P414950

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	88.3		P	40 - 150
2,4,5-T	82.6		P	40 - 150
Acetaminophen	81.6		P	30 - 150
Acetamiprid	69.6		P	40 - 150
Afidopyropen	59.1		P	30 - 150
Bentazon	93.8		P	30 - 150
Benzovindiflupyr	52.5		P	40 - 150
Carbamazepine	66.1		P	40 - 150
Clothianidin	76.6		P	40 - 150
Dinotefuran	78.4		P	40 - 150
Diuron	66.8		P	40 - 150
Fenuron	72.1		P	40 - 150
Fluridone	75.0		P	40 - 150
Hydrocodone	75.3		P	40 - 150
Ibuprofen	84.2		P	40 - 150
Imazapyr	84.7		P	40 - 150
Imidacloprid	70.8		P	40 - 150
Linuron	61.3		P	40 - 150
Mandestrobin	53.5		P	40 - 150
MCPP	91.7		P	40 - 150
Naproxen	78.9		P	40 - 150
Primidone	81.6		P	40 - 150
Pyraclostrobin	50.9		P	40 - 150
Silvex	75.8		P	40 - 150
Thiamethoxam	73.9		P	40 - 150
Tolfenpyrad	40.5		P	30 - 150
Triclopyr	84.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415081

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	89.9		P	40 - 150
Aldicarb	84.5		P	30 - 150
Aldicarb Sulfone	93.7		P	40 - 150
Aldicarb Sulfoxide	87.4		P	40 - 150
Carbaryl	85.9		P	40 - 150
Carbofuran	89.0		P	40 - 150
Methiocarb	88.5		P	40 - 150
Methomyl	90.4		P	40 - 150
Oxamyl	94.4		P	40 - 150
Propoxur	89.0		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P415388

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P415496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	105		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P415393

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P416136

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.2		F	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P415362

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.7		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333401	Chloride	98.2		P	90 - 110
2333589	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333401	Sulfate	96.1		P	90 - 110
2333589	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415581

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332368	Ammonia-N	93.6	93.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415353

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333232	Kjeldahl Nitrogen	97.9	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333402	NO2NO3-N	97.0	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415183

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333444	Total-P	99.8	100	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P414979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332611	Aldrin	73.2	70.7	P/P	10 - 89.0
2332611	Alpha-BHC	97.9	99.4	P/P	71 - 105
2332611	Alpha-Chlordane	95.3	99.1	P/P	43 - 107
2332611	Beta-BHC	76.5	82.4	P/P	57 - 152
2332611	Beta-Cyfluthrin	103	98.1	P/P	29 - 186
2332611	Bifenthrin	75.0	80.3	P/P	19 - 119
2332611	Chlorothalonil	122	115	P/P	10 - 245
2332611	Cis-Nonachlor	90.5	96.4	P/P	36 - 110
2332611	Cypermethrin	95.6	102	P/P	24 - 169
2332611	Dacthal	107	102	P/P	62 - 115
2332611	DDD-p,p'	92.5	97.2	P/P	36 - 109
2332611	DDE-p,p'	92.0	91.2	P/P	30 - 114
2332611	DDT-p,p'	92.6	88.9	P/P	42 - 108
2332611	Delta-BHC	143	137	P/P	60 - 164

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P414979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332611	Deltamethrin	122	109	P/P	10 - 210
2332611	Dichlobenil	82.8	97.0	P/P	23 - 108
2332611	Dicofol	88.5	85.2	P/P	44 - 109
2332611	Dieldrin	92.4	100	P/P	37 - 119
2332611	Endosulfan I	93.2	99.4	P/P	52 - 105
2332611	Endosulfan II	96.4	92.8	P/P	35 - 127
2332611	Endosulfan Sulfate	96.4	89.2	P/P	39 - 130
2332611	Endrin	91.8	90.8	P/P	30 - 116
2332611	Endrin Aldehyde	88.9	81.2	P/P	20 - 110
2332611	Endrin Ketone	95.1	98.2	P/P	48 - 134
2332611	Esfenvalerate	104	96.4	P/P	10 - 199
2332611	Ethalfuralin	89.1	93.4	P/P	48 - 95.0
2332611	Fenpropathrin	81.8	85.6	P/P	37 - 121
2332611	Gamma-BHC	120	118	P/P	61 - 126
2332611	Gamma-Chlordane	91.2	95.4	P/P	39 - 105
2332611	Heptachlor	75.6	83.6	P/P	38 - 96.0
2332611	Heptachlor Epoxide	89.6	99.7	P/P	42 - 114
2332611	Hexachlorobenzene	85.9	90.4	P/P	39 - 93.0
2332611	Kepone	227	201	F/P	10 - 215
2332611	Lambda-Cyhalothrin	81.5	82.3	P/P	10 - 204
2332611	Methoprene	80.8	82.6	P/P	17 - 108
2332611	Methoxychlor	90.4	86.2	P/P	56 - 115
2332611	MGK-264	98.0	99.9	P/P	35 - 120
2332611	Mirex	76.5	78.3	P/P	10 - 178
2332611	Oxychlordane	90.2	87.2	P/P	47 - 91.0
2332611	Permethrin	99.3	95.6	P/P	27 - 170
2332611	Phenothrin	68.1	78.2	P/P	10 - 133
2332611	Piperonyl Butoxide	128	145	P/P	23 - 150
2332611	Prallethrin	94.7	89.9	P/P	21 - 113
2332611	Tau-Fluvalinate	91.0	86.7	P/P	16 - 158
2332611	Tetramethrin	117	113	P/P	22 - 132
2332611	Trans-Nonachlor	89.1	87.7	P/P	43 - 102
2332611	Triclosan Methyl	94.8	100	P/P	49 - 109
2332611	Trifluralin	88.7	88.6	P/P	48 - 93.0
2333132	PCB-1016	101	92.4	P/P	46 - 110
2333132	PCB-1260	97.3	94.4	P/P	42 - 111

Reference Method: EPA 8270E

Batch ID: P415088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333511	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	71.5	67.2	P/P	50 - 150
2333511	Acetochlor	104	85.4	P/P	65 - 124
2333511	Alachlor	96.1	76.9	P/P	61 - 121
2333511	Ametryn	116	99.4	P/P	52 - 216
2333511	Atrazine Desethyl	22.9	24.7	P/P	15 - 160
2333511	Avobenzone	85.0	79.1	P/P	59 - 206
2333511	Azinphos Methyl	148	78.7	P/P	40 - 292
2333511	Azoxystrobin	80.6	99.9	P/P	12 - 242
2333511	Bromacil	59.6	57.5	P/P	54 - 167
2333511	Butylate	50.6	59.2	P/P	14 - 94.0
2333511	Caffeine	96.2	91.1	P/P	10 - 226

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333511	Carbophenothion	113	103	P/P	49 - 122
2333511	Carfentrazone Ethyl	125	100	P/P	53 - 138
2333511	Chlorfenapyr	83.5	85.7	P/P	50 - 150
2333511	Chlorpyrifos Ethyl	91.8	81.3	P/P	52 - 122
2333511	Chlorpyrifos Methyl	99.1	85.5	P/P	66 - 117
2333511	Coumaphos	145	126	P/P	50 - 220
2333511	Cyanazine	80.6	58.9	P/P	43 - 245
2333511	Cyprodinil	90.6	76.5	P/P	50 - 150
2333511	Demeton	127	123	P/P	43 - 188
2333511	Diazinon	111	91.8	P/P	69 - 131
2333511	Difenoconazole	170	99.9	P/P	34 - 231
2333511	Dimethenamid	87.1	66.7	P/P	55 - 118
2333511	Dimethomorph	88.4	142	P/P	50 - 150
2333511	Disulfoton	89.0	79.5	P/P	38 - 141
2333511	EPTC	44.9	55.6	P/P	18 - 85.0
2333511	Ethion	71.6	46.5	P/P	10 - 131
2333511	Ethoprop	91.8	84.2	P/P	65 - 129
2333511	Etridiazole	124	120	P/P	50 - 150
2333511	Fenamiphos	101	104	P/P	31 - 137
2333511	Fenbuconazole	124	92.3	P/P	57 - 160
2333511	Fipronil	103	86.5	P/P	62 - 132
2333511	Fipronil Desulfinyl	95.7	81.8	P/P	57 - 131
2333511	Fipronil Sulfide	87.8	81.9	P/P	15 - 138
2333511	Fipronil Sulfone	91.7	74.4	P/P	21 - 134
2333511	Fluazifop-P-butyl	103	85.6	P/P	54 - 133
2333511	Fludioxonil	97.1	76.2	P/P	58 - 127
2333511	Flumioxazin	158	82.7	P/P	33 - 300
2333511	Flutolanil	91.9	72.5	P/P	42 - 130
2333511	Fluxapyroxad	131	78.9	P/P	23 - 141
2333511	Fonofos	95.4	82.3	P/P	58 - 119
2333511	Hexazinone	88.2	70.9	P/P	68 - 172
2333511	Imazalil	73.8	75.7	P/P	48 - 283
2333511	Iprodione	140	112	P/P	38 - 140
2333511	Loratadine	88.5	163	P/F	50 - 150
2333511	Malathion	99.9	93.2	P/P	40 - 137
2333511	Metaxyl	80.1	67.0	P/P	21 - 129
2333511	Metolachlor	90.7	73.1	P/P	55 - 122
2333511	Metribuzin	75.1	88.5	P/P	38 - 187
2333511	Mevinphos	78.2	72.7	P/P	54 - 134
2333511	Molinate	73.0	69.6	P/P	41 - 97.0
2333511	Myclobutanil	98.9	75.8	P/P	56 - 125
2333511	Naled	77.2	75.3	P/P	10 - 108
2333511	Napropamide	75.4	27.3	P/F	50 - 150
2333511	Octinoxate	66.8	80.2	P/P	25 - 150
2333511	Oxybenzone	61.1	79.4	P/P	59 - 147
2333511	Oxyfluorfen	120	98.6	P/P	61 - 153
2333511	Parathion Ethyl	85.2	74.8	P/P	59 - 130
2333511	Parathion Methyl	114	99.4	P/P	65 - 155
2333511	PBDE-47	62.3	60.5	P/P	50 - 150
2333511	PBDE-99	60.8	49.6	P/F	50 - 150
2333511	Pendimethalin	105	93.8	P/P	49 - 138
2333511	Phenytol	45.6	33.3	F/F	50 - 200

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333511	Phorate	69.1	68.6	P/P	54 - 161
2333511	Prodiamine	101	90.0	P/P	33 - 161
2333511	Prometon	106	95.4	P/P	48 - 140
2333511	Prometryn	84.8	75.2	P/P	55 - 134
2333511	Pronamide	101	79.7	P/P	66 - 137
2333511	Propanil	81.7	70.3	P/P	50 - 150
2333511	Propargite	115	66.8	P/P	50 - 200
2333511	Pyraflufen Ethyl	122	103	P/P	50 - 150
2333511	Pyridaben	116	95.7	P/P	50 - 200
2333511	Pyriproxyfen	105	25.0	P/P	10 - 165
2333511	Simazine	190	178	F/F	57 - 145
2333511	Stirophos	67.7	57.4	P/P	50 - 150
2333511	Tebuconazole	102	50.5	P/P	10 - 127
2333511	Terbufos	105	99.0	P/P	59 - 138
2333511	Terbutylazine	90.5	76.8	P/P	68 - 119
2333511	Thiobencarb	84.6	70.9	P/P	50 - 150
2333511	Tri-o-cresyl Phosphate	66.7	78.9	P/P	50 - 150
2333511	Triadimefon	75.2	66.9	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P414979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333132	Chlordane	105	105	P/P	55 - 128
2333132	Toxaphene	127	126	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P414936

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333217	AMPA	113	109	P/P	40 - 150
2333217	Endothall	98.4	95.6	P/P	40 - 150
2333217	Glufosinate	100	108	P/P	40 - 150
2333217	Glyphosate	105	101	P/P	40 - 150
2333217	Sucralose	97.5	96.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414950

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333123	2,4-D	121	121	P/P	40 - 150
2333123	2,4,5-T	109	112	P/P	40 - 150
2333123	Acetaminophen	121	123	P/P	30 - 150
2333123	Acetamiprid	75.6	74.9	P/P	40 - 150
2333123	Afidopyropen	63.1	61.5	P/P	30 - 150
2333123	Benzovindiflupyr	57.5	61.6	P/P	40 - 150
2333123	Carbamazepine	91.4	93.5	P/P	40 - 150
2333123	Clothianidin	104	100	P/P	40 - 150
2333123	Dinotefuran	126	124	P/P	40 - 150
2333123	Diuron	80.8	85.3	P/P	40 - 150
2333123	Fenuron	76.9	78.4	P/P	40 - 150
2333123	Fluridone	87.4	85.6	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P414950

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333123	Hydrocodone	93.2	98.2	P/P	40 - 150
2333123	Ibuprofen	96.3	92.1	P/P	40 - 150
2333123	Imidacloprid	126	124	P/P	40 - 150
2333123	Linuron	74.7	71.0	P/P	40 - 150
2333123	Mandestrobin	61.1	62.6	P/P	40 - 150
2333123	MCCP	131	133	P/P	40 - 150
2333123	Naproxen	113	94.3	P/P	40 - 150
2333123	Primidone	109	106	P/P	40 - 150
2333123	Pyraclostrobin	57.0	57.9	P/P	40 - 150
2333123	Silvex	109	104	P/P	40 - 150
2333123	Thiamethoxam	126	126	P/P	40 - 150
2333123	Tolfenpyrad	45.8	44.6	P/P	30 - 150
2333123	Triclopyr	123	126	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333508	3-Hydroxycarbofuran	103	95.0	P/P	40 - 150
2333508	Aldicarb	83.5	80.4	P/P	30 - 150
2333508	Aldicarb Sulfone	107	102	P/P	40 - 150
2333508	Aldicarb Sulfoxide	44.8	43.3	P/P	40 - 150
2333508	Carbaryl	82.0	79.6	P/P	40 - 150
2333508	Carbofuran	90.8	84.3	P/P	40 - 150
2333508	Methiocarb	87.5	84.7	P/P	40 - 150
2333508	Methomyl	89.1	83.4	P/P	40 - 150
2333508	Oxamyl	96.8	89.0	P/P	40 - 150
2333508	Propoxur	88.7	87.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P415393

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333178	Fluoride	103	103	P/P	94 - 104

Reference Method: SM 4500-F- C-2011

Batch ID: P416136

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333516	Fluoride	96.2	96.9	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P415362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333840	Organic Carbon	94.1	94.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P415003

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333231	Color (true)	10.5	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P415004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333443	Color (true)	5.38	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414996

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333412	Turbidity	6.30	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333401	Chloride	0.316	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333401	Sulfate	0.236	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415581

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332368	Ammonia-N	0.384	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333232	Kjeldahl Nitrogen	3.46	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333402	NO2NO3-N	4.53	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415183

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333444	Total-P	0.302	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P414979

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332611	Aldrin	3.53	Spike	P	0 - 37
2332611	Alpha-BHC	1.54	Spike	P	0 - 16
2332611	Alpha-Chlordane	3.89	Spike	P	0 - 28
2332611	Beta-BHC	7.46	Spike	P	0 - 32
2332611	Beta-Cyfluthrin	5.09	Spike	P	0 - 41
2332611	Bifenthrin	6.87	Spike	P	0 - 36
2332611	Chlorothalonil	6.18	Spike	P	0 - 54
2332611	Cis-Nonachlor	6.37	Spike	P	0 - 33
2332611	Cypermethrin	6.56	Spike	P	0 - 38
2332611	Dacthal	5.11	Spike	P	0 - 23
2332611	DDD-p,p'	4.98	Spike	P	0 - 35
2332611	DDE-p,p'	0.880	Spike	P	0 - 27
2332611	DDT-p,p'	3.99	Spike	P	0 - 31
2332611	Delta-BHC	4.42	Spike	P	0 - 30
2332611	Deltamethrin	10.8	Spike	P	0 - 76
2332611	Dichlobenil	15.8	Spike	P	0 - 33
2332611	Dicofol	3.82	Spike	P	0 - 24
2332611	Dieldrin	8.01	Spike	P	0 - 35
2332611	Endosulfan I	6.45	Spike	P	0 - 25
2332611	Endosulfan II	3.74	Spike	P	0 - 31
2332611	Endosulfan Sulfate	7.76	Spike	P	0 - 38
2332611	Endrin	1.05	Spike	P	0 - 53
2332611	Endrin Aldehyde	9.12	Spike	P	0 - 81
2332611	Endrin Ketone	3.16	Spike	P	0 - 33
2332611	Esfenvalerate	8.06	Spike	P	0 - 46
2332611	Ethalfuralin	4.72	Spike	P	0 - 22
2332611	Fenpropathrin	4.60	Spike	P	0 - 29
2332611	Gamma-BHC	1.77	Spike	P	0 - 17
2332611	Gamma-Chlordane	4.44	Spike	P	0 - 28
2332611	Heptachlor	10.0	Spike	P	0 - 28
2332611	Heptachlor Epoxide	10.6	Spike	P	0 - 23
2332611	Hexachlorobenzene	5.18	Spike	P	0 - 22
2332611	Kepone	12.1	Spike	P	0 - 61
2332611	Lambda-Cyhalothrin	0.984	Spike	P	0 - 52
2332611	Methoprene	2.18	Spike	P	0 - 38
2332611	Methoxychlor	4.70	Spike	P	0 - 29
2332611	MGK-264	1.93	Spike	P	0 - 41
2332611	Mirex	2.35	Spike	P	0 - 39
2332611	Oxychlordane	3.41	Spike	P	0 - 33
2332611	Permethrin	3.71	Spike	P	0 - 39
2332611	Phenothrin	13.8	Spike	P	0 - 52
2332611	Piperonyl Butoxide	12.6	Spike	P	0 - 91
2332611	Prallethrin	5.28	Spike	P	0 - 34
2332611	Tau-Fluvalinate	4.82	Spike	P	0 - 41

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332611	Tetramethrin	4.13	Spike	P	0 - 43
2332611	Trans-Nonachlor	1.59	Spike	P	0 - 31
2332611	Triclosan Methyl	5.82	Spike	P	0 - 24
2332611	Trifluralin	0.102	Spike	P	0 - 23
2333132	PCB-1016	8.43	Spike	P	0 - 32
2333132	PCB-1260	2.97	Spike	P	0 - 31

Reference Method: EPA 8270E
Batch ID: P415088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333511	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	6.23	Spike	P	0 - 30
2333511	Acetochlor	19.6	Spike	P	0 - 27
2333511	Alachlor	22.2	Spike	P	0 - 27
2333511	Ametryn	15.4	Spike	P	0 - 34
2333511	Atrazine	24.9	Spike	P	0 - 41
2333511	Atrazine Desethyl	2.36	Spike	P	0 - 38
2333511	Avobenzone	7.14	Spike	P	0 - 30
2333511	Azinphos Methyl	60.9	Spike	P	0 - 62
2333511	Azoxystrobin	11.1	Spike	P	0 - 32
2333511	Bromacil	2.51	Spike	P	0 - 30
2333511	Butylate	15.7	Spike	P	0 - 59
2333511	Caffeine	5.15	Spike	P	0 - 60
2333511	Carbophenothion	9.47	Spike	P	0 - 25
2333511	Carfentrazone Ethyl	22.1	Spike	P	0 - 26
2333511	Chlorfenapyr	2.67	Spike	P	0 - 30
2333511	Chlorpyrifos Ethyl	12.2	Spike	P	0 - 27
2333511	Chlorpyrifos Methyl	14.7	Spike	P	0 - 26
2333511	Coumaphos	13.6	Spike	P	0 - 30
2333511	Cyanazine	31.2	Spike	P	0 - 58
2333511	Cyprodinil	16.8	Spike	P	0 - 30
2333511	Demeton	2.80	Spike	P	0 - 25
2333511	Diazinon	18.6	Spike	P	0 - 29
2333511	Difenoconazole	51.8	Spike	F	0 - 25
2333511	Dimethenamid	26.4	Spike	P	0 - 30
2333511	Dimethomorph	46.3	Spike	F	0 - 30
2333511	Disulfoton	11.4	Spike	P	0 - 33
2333511	Dithiopyr	12.0	Spike	P	0 - 22
2333511	EPTC	21.2	Spike	P	0 - 38
2333511	Ethion	42.7	Spike	P	0 - 79
2333511	Ethoprop	8.60	Spike	P	0 - 23
2333511	Etridiazole	3.18	Spike	P	0 - 30
2333511	Fenamiphos	3.08	Spike	P	0 - 58
2333511	Fenbuconazole	26.8	Spike	P	0 - 37
2333511	Fipronil	16.4	Spike	P	0 - 33
2333511	Fipronil Desulfiny	12.4	Spike	P	0 - 26
2333511	Fipronil Sulfide	5.88	Spike	P	0 - 37
2333511	Fipronil Sulfone	16.1	Spike	P	0 - 50
2333511	Fluazifop-P-butyl	18.7	Spike	P	0 - 24
2333511	Fludioxonil	24.2	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P415088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333511	Flumioxazin	62.5	Spike	F	0 - 37
2333511	Flutolanil	19.9	Spike	P	0 - 26
2333511	Fluxapyroxad	45.4	Spike	F	0 - 34
2333511	Fonofos	14.7	Spike	P	0 - 27
2333511	Hexazinone	13.2	Spike	P	0 - 36
2333511	Imazalil	2.54	Spike	P	0 - 65
2333511	Iprodione	22.0	Spike	P	0 - 33
2333511	Loratadine	59.1	Spike	F	0 - 30
2333511	Malathion	6.90	Spike	P	0 - 44
2333511	Metalaxyl	13.8	Spike	P	0 - 38
2333511	Metolachlor	18.8	Spike	P	0 - 36
2333511	Metribuzin	16.4	Spike	P	0 - 63
2333511	Mevinphos	7.21	Spike	P	0 - 26
2333511	Molinate	4.69	Spike	P	0 - 40
2333511	Myclobutanil	20.4	Spike	P	0 - 21
2333511	Naled	2.41	Spike	P	0 - 26
2333511	Napropamide	93.5	Spike	F	0 - 30
2333511	Norflurazon	5.78	Spike	P	0 - 24
2333511	Octinoxate	18.2	Spike	P	0 - 30
2333511	Oxadiazon	46.1	Spike	F	0 - 27
2333511	Oxybenzone	26.1	Spike	P	0 - 30
2333511	Oxyfluorfen	19.8	Spike	P	0 - 24
2333511	Parathion Ethyl	13.1	Spike	P	0 - 28
2333511	Parathion Methyl	13.7	Spike	P	0 - 27
2333511	PBDE-47	2.83	Spike	P	0 - 30
2333511	PBDE-99	20.4	Spike	P	0 - 30
2333511	Pendimethalin	11.4	Spike	P	0 - 31
2333511	Phenytoin	31.3	Spike	F	0 - 30
2333511	Phorate	0.681	Spike	P	0 - 27
2333511	Prodiamine	9.72	Spike	P	0 - 52
2333511	Prometon	10.3	Spike	P	0 - 31
2333511	Prometryn	12.0	Spike	P	0 - 28
2333511	Pronamide	23.9	Spike	P	0 - 26
2333511	Propanil	15.0	Spike	P	0 - 30
2333511	Propargite	53.0	Spike	F	0 - 30
2333511	Propiconazole	10.6	Spike	P	0 - 31
2333511	Pyraflufen Ethyl	17.4	Spike	P	0 - 30
2333511	Pyridaben	18.8	Spike	P	0 - 30
2333511	Pyriproxyfen	123	Spike	F	0 - 50
2333511	Simazine	6.79	Spike	P	0 - 29
2333511	Stirophos	16.5	Spike	P	0 - 30
2333511	Sulfentrazone	12.0	Spike	P	0 - 33
2333511	Tebuconazole	54.4	Spike	F	0 - 44
2333511	Terbufos	5.55	Spike	P	0 - 29
2333511	Terbutylazine	16.3	Spike	P	0 - 27
2333511	Thiobencarb	17.6	Spike	P	0 - 30
2333511	Tri-o-cresyl Phosphate	16.8	Spike	P	0 - 30
2333511	Triadimefon	11.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P414979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333132	Chlordane	0.573	Spike	P	0 - 25
2333132	Toxaphene	1.10	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P414936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333217	AMPA	3.60	Spike	P	0 - 30
2333217	Endothall	2.90	Spike	P	0 - 30
2333217	Glufosinate	7.30	Spike	P	0 - 30
2333217	Glyphosate	3.56	Spike	P	0 - 30
2333217	Sucralose	1.00	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P414950

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333123	2,4-D	0.143	Spike	P	0 - 30
2333123	2,4,5-T	2.94	Spike	P	0 - 30
2333123	Acetaminophen	1.80	Spike	P	0 - 30
2333123	Acetamiprid	0.910	Spike	P	0 - 30
2333123	Afidopyropen	2.55	Spike	P	0 - 30
2333123	Bentazon	2.42	Spike	P	0 - 30
2333123	Benzovindiflupyr	6.97	Spike	P	0 - 30
2333123	Carbamazepine	1.86	Spike	P	0 - 30
2333123	Clothianidin	2.70	Spike	P	0 - 30
2333123	Dinotefuran	1.81	Spike	P	0 - 30
2333123	Diuron	4.85	Spike	P	0 - 30
2333123	Fenuron	1.95	Spike	P	0 - 30
2333123	Fluridone	1.68	Spike	P	0 - 30
2333123	Hydrocodone	5.26	Spike	P	0 - 30
2333123	Ibuprofen	4.41	Spike	P	0 - 30
2333123	Imazapyr	7.54	Spike	P	0 - 30
2333123	Imidacloprid	0.924	Spike	P	0 - 30
2333123	Linuron	5.09	Spike	P	0 - 30
2333123	Mandestrobin	2.36	Spike	P	0 - 30
2333123	MCPP	1.41	Spike	P	0 - 30
2333123	Naproxen	18.1	Spike	P	0 - 30
2333123	Primidone	3.41	Spike	P	0 - 30
2333123	Pyraclostrobin	1.57	Spike	P	0 - 30
2333123	Silvex	5.21	Spike	P	0 - 30
2333123	Thiamethoxam	0.388	Spike	P	0 - 30
2333123	Tolfenpyrad	2.48	Spike	P	0 - 30
2333123	Triclopyr	1.94	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P415081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333508	3-Hydroxycarbofuran	7.86	Spike	P	0 - 30
2333508	Aldicarb	3.84	Spike	P	0 - 30
2333508	Aldicarb Sulfone	5.34	Spike	P	0 - 30
2333508	Aldicarb Sulfoxide	3.49	Spike	P	0 - 30
2333508	Carbaryl	2.92	Spike	P	0 - 30
2333508	Carbofuran	7.41	Spike	P	0 - 30
2333508	Methiocarb	3.30	Spike	P	0 - 30
2333508	Methomyl	6.56	Spike	P	0 - 30
2333508	Oxamyl	8.42	Spike	P	0 - 30
2333508	Propoxur	1.04	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P415388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333178	Total Alkalinity	0.100	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P415496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333516	Total Alkalinity	0.627	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011

Batch ID: P415490

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333231	TDS	3.17	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P415393

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333178	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011

Batch ID: P416136

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333516	Fluoride	0.487	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011

Batch ID: P415362

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

Precision

Reference Method: SM 5310 B-2011
Batch ID: P415362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333840	Organic Carbon	0.604	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2333453
Field Sample ID: G2SE0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	58.3	P	20 - 200
EPA 8270E	Simazine-d10	76.3	P	71 - 140
EPA 8270E	Terbufos-d10	86.1	P	62 - 131
EPA 8270E	Terphenyl-d14	101	P	52 - 141

Lab Sample ID: 2333508
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	95.8	P	30 - 160

Lab Sample ID: 2333509
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	119	P	30 - 160
EPA 8321B	Carbamazepine-d10	95.7	P	30 - 160
EPA 8321B	Diuron-d6	71.8	P	30 - 160
EPA 8321B	Endothall-d6	97.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	72.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	83.1	P	30 - 160
EPA 8321B	Primidone-d5	93.8	P	30 - 160
EPA 8321B	Sucralose-d6	60.0	P	30 - 160

Lab Sample ID: 2333510
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	89.9	P	38 - 115
EPA 8270E	Decachlorobiphenyl	92.9	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	69.5	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	71.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	82.6	P	30 - 97.0
EPA 8276	PCNB	103	P	45 - 119

Lab Sample ID: 2333511
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	47.3	P	20 - 200
EPA 8270E	Simazine-d10	73.4	P	71 - 140
EPA 8270E	Terbufos-d10	85.5	P	62 - 131
EPA 8270E	Terphenyl-d14	85.7	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112710

Included Lab Sample IDs: 2333442, 2333443

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: A112716

Included Lab Sample IDs: 2333442, 2333443

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	102	P/P	85 - 115
Color (true)	99.9	103	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A112788

Included Lab Sample IDs: 2333508

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	96.8	98.1	P/P	60 - 150
Aldicarb	97.7	93.4	P/P	60 - 150
Aldicarb Sulfone	98.6	96.8	P/P	50 - 150
Aldicarb Sulfoxide	101	96.1	P/P	50 - 150
Carbaryl	100	97.1	P/P	60 - 150
Carbofuran	101	97.9	P/P	50 - 150
Methiocarb	99.1	98.4	P/P	50 - 150
Methomyl	97.6	99.6	P/P	50 - 150
Oxamyl	98.2	97.1	P/P	50 - 150
Propoxur	100	99.4	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A112791

Included Lab Sample IDs: 2333509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	102	103	P/P	50 - 150
2,4,5-T	106	112	P/P	50 - 150
Acetaminophen	107	107	P/P	60 - 160
Acetamiprid	89.1	89.0	P/P	50 - 150
Afidopyropen	84.3	79.0	P/P	50 - 150
Bentazon	108	108	P/P	50 - 160
Benzovindiflupyr	80.7	78.7	P/P	50 - 150
Carbamazepine	86.7	87.2	P/P	60 - 150
Clothianidin	96.8	100	P/P	60 - 150
Dinotefuran	95.1	93.1	P/P	50 - 150
Diuron	90.2	86.6	P/P	60 - 160
Fenuron	86.1	86.3	P/P	60 - 150
Fluridone	97.2	101	P/P	60 - 160
Hydrocodone	94.4	93.6	P/P	60 - 150
Ibuprofen	99.0	98.7	P/P	50 - 160
Imazapyr	98.7	98.4	P/P	50 - 150
Imidacloprid	90.7	88.4	P/P	60 - 150
Linuron	74.3	77.6	P/P	60 - 150
Mandestrobin	81.2	81.3	P/P	50 - 150
MCPP	112	109	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A112791
Included Lab Sample IDs: 2333509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naproxen	111	132	P/P	50 - 160
Primidone	96.4	102	P/P	60 - 150
Pyraclostrobin	78.0	78.0	P/P	60 - 150
Silvex	110	106	P/P	50 - 150
Thiamethoxam	91.7	90.9	P/P	50 - 150
Tolfenpyrad	85.6	85.1	P/P	60 - 150
Triclopyr	101	106	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A112815
Included Lab Sample IDs: 2333509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	103	103	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A112816
Included Lab Sample IDs: 2333509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	102	P/P	60 - 160
Endothall	110	113	P/P	60 - 160
Glufosinate	104	103	P/P	60 - 160
Glyphosate	105	97.9	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A112863
Included Lab Sample IDs: 2333510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	103		P	80 - 120
PCB-1260	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A112881
Included Lab Sample IDs: 2333510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	107		P	80 - 120
Alpha-BHC	95.8		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	97.2		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	98.8		P	80 - 120
Chlorothalonil	94.2		P	80 - 120
Cis-Nonachlor	95.3		P	80 - 120
Cypermethrin	99.0		P	80 - 120
Dacthal	108		P	80 - 120
DDD-p,p'	96.9		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A112881
Included Lab Sample IDs: 2333510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Delta-BHC	102		P	80 - 120
Deltamethrin	118		P	80 - 120
Dichlobenil	105		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	97.6		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	104		P	80 - 120
Endrin Aldehyde	93.3		P	80 - 120
Endrin Ketone	97.0		P	80 - 120
Esfenvalerate	105		P	80 - 120
Ethalfuralin	97.7		P	80 - 120
Fenpropathrin	99.7		P	80 - 120
Gamma-BHC	109		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	95.0		P	80 - 120
Heptachlor Epoxide	93.6		P	80 - 120
Hexachlorobenzene	95.0		P	80 - 120
Kepone	101		P	80 - 120
Lambda-Cyhalothrin	95.3		P	80 - 120
Methoprene	106		P	80 - 120
Methoxychlor	98.2		P	80 - 120
MGK-264	103		P	80 - 120
Mirex	95.7		P	80 - 120
Oxychlordane	99.5		P	80 - 120
Permethrin	96.0		P	80 - 120
Phenothrin	91.8		P	80 - 120
Piperonyl Butoxide	115		P	80 - 120
Prallethrin	108		P	80 - 120
Tau-Fluvalinate	107		P	80 - 120
Tetramethrin	99.5		P	80 - 120
Trans-Nonachlor	99.9		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	97.3		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A112896
Included Lab Sample IDs: 2333444, 2333445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	97.4	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A112906
Included Lab Sample IDs: 2333442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A112906

Included Lab Sample IDs: 2333442

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

Reference Method: EPA 8270E

Run ID: A112908

Included Lab Sample IDs: 2333453, 2333511

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.8		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	81.0		P	80 - 120
Atrazine	97.7		P	80 - 120
Atrazine Desethyl	93.3		P	80 - 120
Azinphos Methyl	88.1		P	80 - 120
Azoxystrobin	98.7		P	80 - 120
Bromacil	93.6		P	80 - 120
Butylate	99.9		P	80 - 120
Caffeine	96.6		P	80 - 120
Carbophenothion	113		P	80 - 120
Carfentrazone Ethyl	96.4		P	80 - 120
Chlorfenapyr	112		P	80 - 120
Chlorpyrifos Ethyl	100		P	80 - 120
Chlorpyrifos Methyl	100		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	87.5		P	80 - 120
Cyprodinil	90.3		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	97.4		P	80 - 120
Difenoconazole	88.0		P	80 - 120
Dimethenamid	98.8		P	80 - 120
Dimethomorph	96.9		P	80 - 120
Disulfoton	99.4		P	80 - 120
Dithiopyr	97.0		P	80 - 120
EPTC	102		P	80 - 120
Ethion	96.6		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	92.0		P	80 - 120
Fenamiphos	99.1		P	80 - 120
Fenbuconazole	91.4		P	80 - 120
Fipronil	98.6		P	80 - 120
Fipronil Desulfinyl	98.2		P	80 - 120
Fipronil Sulfide	109		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	102		P	80 - 120
Flumioxazin	80.2		P	80 - 120
Flutolanil	88.8		P	80 - 120
Fluxapyroxad	97.1		P	80 - 120
Fonofos	98.3		P	80 - 120
Hexazinone	99.6		P	80 - 120
Imazalil	111		P	80 - 120
Iprodione	96.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112908

Included Lab Sample IDs: 2333453, 2333511

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	101		P	80 - 120
Malathion	106		P	80 - 120
Metalaxyl	99.1		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	92.2		P	80 - 120
Mevinphos	109		P	80 - 120
Molinate	103		P	80 - 120
Myclobutanil	104		P	80 - 120
Naled	106		P	80 - 120
Napropamide	93.1		P	80 - 120
Norflurazon	99.6		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	93.0		P	80 - 120
Parathion Ethyl	95.9		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	97.3		P	80 - 120
Phenytoin	95.7		P	80 - 120
Phorate	93.7		P	80 - 120
Prodiamine	86.3		P	80 - 120
Prometon	86.9		P	80 - 120
Prometryn	82.7		P	80 - 120
Pronamide	98.2		P	80 - 120
Propanil	91.6		P	80 - 120
Propargite	93.3		P	80 - 120
Propiconazole	93.5		P	80 - 120
Pyraflufen Ethyl	97.6		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	91.3		P	80 - 120
Simazine	95.1		P	80 - 120
Stirophos	109		P	80 - 120
Sulfentrazone	91.8		P	80 - 120
Tebuconazole	93.8		P	80 - 120
Terbufos	96.4		P	80 - 120
Terbuthylazine	95.8		P	80 - 120
Thiobencarb	96.4		P	80 - 120
Triadimefon	103		P	80 - 120

Reference Method: EPA 8270E

Run ID: A112910

Included Lab Sample IDs: 2333453, 2333511

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.2		P	80 - 120
Avobenzone	96.7		P	80 - 120
Octinoxate	95.9		P	80 - 120
Oxybenzone	102		P	80 - 120
PBDE-47	94.4		P	80 - 120
PBDE-99	94.6		P	80 - 120
Tri-o-cresyl Phosphate	94.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A112925

Included Lab Sample IDs: 2333442, 2333443

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112934

Included Lab Sample IDs: 2333444, 2333445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.7	97.4	P/P	90 - 110
Total-P	98.4	97.7	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A112951

Included Lab Sample IDs: 2333443

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

Reference Method: EPA 8270E

Run ID: A112968

Included Lab Sample IDs: 2333511

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	98.7		P	80 - 120
Oxadiazon	104		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112973

Included Lab Sample IDs: 2333444, 2333445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	106	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112990

Included Lab Sample IDs: 2333444, 2333445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	96.0	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A113035

Included Lab Sample IDs: 2333510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.2		P	80 - 120
Toxaphene	91.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113060

Included Lab Sample IDs: 2333444, 2333445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	98.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113273

Included Lab Sample IDs: 2333443

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

* 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)	101				10.5	
	Color (true)	100				5.38	
EPA 180.1 Rev. 2.0	Turbidity	96.7				6.30	
EPA 300.0 Rev. 2.1	Chloride	102	98.2	101		0.316	
	Sulfate	101	96.1	100		0.236	
EPA 350.1 Rev. 2.0	Ammonia-N	93.2	93.6	93.2			0.384
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	97.9	102			3.46
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	97.0	102			4.53
EPA 365.1 Rev. 2.0	Total-P	100	99.8	100			0.302
EPA 8270E	2-Ethylhexyl	81.9	71.5	67.2			6.23
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	95.9	104	85.4			19.6
	Alachlor	86.7	96.1	76.9			22.2
	Aldrin	74.6	70.7	73.2			3.53
	Alpha-BHC	97.9	97.9	99.4			1.54
	Alpha-Chlordane	99.3	95.3	99.1			3.89
	Ametryn	95.9	116	99.4			15.4
	Atrazine	84.3					24.9
	Atrazine Desethyl	46.5	22.9	24.7			2.36
	Avobenzone	82.3	85.0	79.1			7.14
	Azinphos Methyl	138	148	78.7			60.9
	Azoxystrobin	106	80.6	99.9			11.1
	Beta-BHC	81.4	76.5	82.4			7.46
	Beta-Cyfluthrin	111	103	98.1			5.09
	Bifenthrin	72.8	75.0	80.3			6.87
	Bromacil	56.0	59.6	57.5			2.51
	Butylate	52.2	50.6	59.2			15.7
	Caffeine	91.9	96.2	91.1			5.15
	Carbophenothion	118	113	103			9.47
	Carfentrazone Ethyl	114	125	100			22.1
	Chlorfenapyr	85.9	83.5	85.7			2.67
	Chlorothalonil	124	122	115			6.18
	Chlorpyrifos Ethyl	93.8	91.8	81.3			12.2
	Chlorpyrifos Methyl	106	99.1	85.5			14.7
	Cis-Nonachlor	84.5	90.5	96.4			6.37
	Coumaphos	155	145	126			13.6
	Cyanazine	86.0	80.6	58.9			31.2
	Cypermethrin	97.3	95.6	102			6.56
	Cyprodinil	84.4	90.6	76.5			16.8
	Dacthal	105	107	102			5.11
	DDD-p,p'	85.6	92.5	97.2			4.98
	DDE-p,p'	89.1	92.0	91.2			0.880
	DDT-p,p'	93.6	92.6	88.9			3.99
	Delta-BHC	140	143	137			4.42
	Deltamethrin	135	122	109			10.8
	Demeton	80.4	127	123			2.80
	Diazinon	93.2	111	91.8			18.6
	Dichlobenil	89.3	82.8	97.0			15.8
	Dicofol	88.1	88.5	85.2			3.82
	Dieldrin	87.1	92.4	100			8.01
	Difenoconazole	141	170	99.9			51.8
	Dimethenamid	77.7	87.1	66.7			26.4
	Dimethomorph	94.3	88.4	142			46.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Disulfoton	90.3	89.0	79.5			11.4
	Dithiopyr	88.3					12.0
	Endosulfan I	94.3	93.2	99.4			6.45
	Endosulfan II	104	96.4	92.8			3.74
	Endosulfan Sulfate	108	96.4	89.2			7.76
	Endrin	98.1	91.8	90.8			1.05
	Endrin Aldehyde	90.6	88.9	81.2			9.12
	Endrin Ketone	99.3	95.1	98.2			3.16
	EPTC	55.0	44.9	55.6			21.2
	Esfenvalerate	111	104	96.4			8.06
	Ethalfuralin	92.5	89.1	93.4			4.72
	Ethion	77.8	71.6	46.5			42.7
	Ethoprop	81.4	91.8	84.2			8.60
	Etridiazole	115	124	120			3.18
	Fenamiphos	104	101	104			3.08
	Fenbuconazole	110	124	92.3			26.8
	Fenpropathrin	89.7	81.8	85.6			4.60
	Fipronil	91.5	103	86.5			16.4
	Fipronil Desulfinyl	89.5	95.7	81.8			12.4
	Fipronil Sulfide	90.8	87.8	81.9			5.88
	Fipronil Sulfone	99.2	91.7	74.4			16.1
	Fluazifop-P-butyl	95.5	103	85.6			18.7
	Fludioxonil	93.4	97.1	76.2			24.2
	Flumioxazin	132	158	82.7			62.5
	Flutolanil	88.9	91.9	72.5			19.9
	Fluxapyroxad	115	131	78.9			45.4
	Fonofos	86.4	95.4	82.3			14.7
	Gamma-BHC	118	120	118			1.77
	Gamma-Chlordane	92.5	91.2	95.4			4.44
	Heptachlor	71.3	75.6	83.6			10.0
	Heptachlor Epoxide	89.2	89.6	99.7			10.6
	Hexachlorobenzene	87.6	85.9	90.4			5.18
	Hexazinone	91.1	88.2	70.9			13.2
	Imazalil	80.9	73.8	75.7			2.54
	Iprodione	115	140	112			22.0
	Kepone	245	227	201			12.1
	Lambda-Cyhalothrin	80.4	81.5	82.3			0.984
	Loratadine	84.1	88.5	163			59.1
	Malathion	110	99.9	93.2			6.90
	Metalaxyl	81.0	80.1	67.0			13.8
	Methoprene	83.1	80.8	82.6			2.18
	Methoxychlor	96.3	90.4	86.2			4.70
	Metolachlor	87.9	90.7	73.1			18.8
	Metribuzin	80.9	75.1	88.5			16.4
	Mevinphos	71.7	78.2	72.7			7.21
	MGK-264	101	98.0	99.9			1.93
	Mirex	73.1	76.5	78.3			2.35
	Molinate	73.0	73.0	69.6			4.69
	Myclobutanil	99.5	98.9	75.8			20.4
	Naled	65.5	77.2	75.3			2.41
	Napropamide	77.3	75.4	27.3			93.5
	Norflurazon	96.1					5.78
	Octinoxate	78.9	66.8	80.2			18.2
	Oxadiazon	77.5					46.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Oxybenzone	75.1	61.1	79.4			26.1
	Oxychlordane	95.6	90.2	87.2			3.41
	Oxyfluorfen	111	120	98.6			19.8
	Parathion Ethyl	87.8	85.2	74.8			13.1
	Parathion Methyl	105	114	99.4			13.7
	PBDE-47	76.4	62.3	60.5			2.83
	PBDE-99	75.8	60.8	49.6			20.4
	PCB-1016	67.3	101	92.4			8.43
	PCB-1260	96.7	97.3	94.4			2.97
	Pendimethalin	91.7	105	93.8			11.4
	Permethrin	95.4	99.3	95.6			3.71
	Phenothrin	65.8	68.1	78.2			13.8
	Phenytol	18.1	45.6	33.3			31.3
	Phorate	67.4	69.1	68.6			0.681
	Piperonyl Butoxide	136	128	145			12.6
	Prallethrin	103	94.7	89.9			5.28
	Prodiamine	97.9	101	90.0			9.72
	Prometon	95.4	106	95.4			10.3
	Prometryn	76.8	84.8	75.2			12.0
	Pronamide	94.9	101	79.7			23.9
	Propanil	79.4	81.7	70.3			15.0
	Propargite	110	115	66.8			53.0
	Propiconazole	96.1					10.6
	Pyraflufen Ethyl	107	122	103			17.4
	Pyridaben	128	116	95.7			18.8
	Pyriproxyfen	106	105	25.0			123
	Simazine	75.1	190	178			6.79
	Stirophos	87.4	67.7	57.4			16.5
	Sulfentrazone	31.3					12.0
	Tau-Fluvalinate	99.9	91.0	86.7			4.82
	Tebuconazole	100	102	50.5			54.4
	Terbufos	102	105	99.0			5.55
	Terbutylazine	84.1	90.5	76.8			16.3
	Tetramethrin	117	117	113			4.13
	Thiobencarb	81.6	84.6	70.9			17.6
	Trans-Nonachlor	86.3	89.1	87.7			1.59
	Tri-o-cresyl Phosphate	81.0	66.7	78.9			16.8
	Triadimefon	80.7	75.2	66.9			11.7
	Triclosan Methyl	93.7	94.8	100			5.82
	Trifluralin	90.5	88.7	88.6			0.102
EPA 8276	Chlordane	105	105	105			0.573
	Toxaphene	106	127	126			1.10
EPA 8321B	2,4-D	88.3	121	121			0.143
	2,4,5-T	82.6	112	109			2.94
	3-Hydroxycarbofuran	89.9	95.0	103			7.86
	Acetaminophen	81.6	121	123			1.80
	Acetamiprid	69.6	75.6	74.9			0.910
	Afidopyropen	59.1	63.1	61.5			2.55
	Aldicarb	84.5	80.4	83.5			3.84
	Aldicarb Sulfone	93.7	102	107			5.34
	Aldicarb Sulfoxide	87.4	44.8	43.3			3.49
	AMPA	99.7	113	109			3.60
	Bentazon	93.8					2.42
	Benzovindiflupyr	52.5	61.6	57.5			6.97

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	SMP	MS	
EPA 8321B	Carbamazepine	66.1	91.4	93.5		1.86
	Carbaryl	85.9	79.6	82.0		2.92
	Carbofuran	89.0	84.3	90.8		7.41
	Clothianidin	76.6	104	100		2.70
	Dinotefuran	78.4	126	124		1.81
	Diuron	66.8	80.8	85.3		4.85
	Endothall	96.9	98.4	95.6		2.90
	Fenuron	72.1	76.9	78.4		1.95
	Fluridone	75.0	87.4	85.6		1.68
	Glufosinate	94.7	100	108		7.30
	Glyphosate	99.2	105	101		3.56
	Hydrocodone	75.3	93.2	98.2		5.26
	Ibuprofen	84.2	92.1	96.3		4.41
	Imazapyr	84.7				7.54
	Imidacloprid	70.8	126	124		0.924
	Linuron	61.3	74.7	71.0		5.09
	Mandestrobin	53.5	62.6	61.1		2.36
	MCPP	91.7	133	131		1.41
	Methiocarb	88.5	84.7	87.5		3.30
	Methomyl	90.4	83.4	89.1		6.56
	Naproxen	78.9	94.3	113		18.1
	Oxamyl	94.4	96.8	89.0		8.42
	Primidone	81.6	109	106		3.41
	Propoxur	89.0	87.8	88.7		1.04
	Pyraclostrobin	50.9	57.9	57.0		1.57
	Silvex	75.8	104	109		5.21
	Sucralose	94.6	97.5	96.5		1.00
	Thiamethoxam	73.9	126	126		0.388
	Tolfenpyrad	40.5	44.6	45.8		2.48
	Triclopyr	84.0	126	123		1.94
SM 2320 B-2011	Total Alkalinity	103			0.100	
	Total Alkalinity	105			0.627	
SM 2540 C-2011	TDS				3.17	
SM 4500-F- C-2011	Fluoride	102	103	103		0.0
	Fluoride	95.2	96.2	96.9		0.487
SM 5310 B-2011	Organic Carbon	93.7	94.1	94.8		0.604

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2333442, 2333443
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2333442, 2333443
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2333442, 2333443
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2333442, 2333443
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2333444, 2333445
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2333444, 2333445
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2333444, 2333445
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2333444, 2333445
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2333453, 2333511
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2333510
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2333453, 2333511
EPA 8270E	PCBs in water matrices by GC/MS/MS	2333510

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2333510
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2333508
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2333509
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2333442, 2333443
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2333442, 2333443
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2333442, 2333443
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2333442, 2333443
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2333444, 2333445

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	06/09/2022			06/09/2022 14:49	Samantha L Bates	2333442
	06/09/2022			06/09/2022 14:53	Samantha L Bates	2333443
EPA 180.1 Rev. 2.0	06/09/2022			06/09/2022 13:53	Khloe J Berg	2333442
	06/09/2022			06/09/2022 13:54	Khloe J Berg	2333443
EPA 300.0 Rev. 2.1	06/09/2022			06/16/2022 07:26	Anna M. Plaviak	2333442
	06/09/2022			06/16/2022 07:38	Anna M. Plaviak	2333443
EPA 350.1 Rev. 2.0	06/09/2022			06/22/2022 13:09	Judith K. Clark	2333444
	06/09/2022			06/22/2022 13:11	Judith K. Clark	2333445
EPA 351.2 Rev. 2.0	06/09/2022	06/20/2022 16:21	Samantha L Bates	06/21/2022 11:43	Alexandra J Mattheus	2333444
	06/09/2022	06/20/2022 16:21	Samantha L Bates	06/21/2022 11:45	Alexandra J Mattheus	2333445
EPA 353.2 Rev. 2.0	06/09/2022			06/24/2022 15:24	Touraj Touran	2333444
	06/09/2022			06/24/2022 15:26	Touraj Touran	2333445
EPA 365.1 Rev. 2.0	06/09/2022	06/15/2022 11:23	Simonne.V. Calhoun	06/20/2022 10:58	James L Waggeberby	2333444
	06/09/2022	06/15/2022 11:23	Simonne.V. Calhoun	06/20/2022 11:04	James L Waggeberby	2333445
EPA 8270E	06/09/2022	06/10/2022 08:00	Rasheda Ghaffari	06/15/2022 21:55	Michael Poppell	2333510
	06/09/2022	06/10/2022 08:00	Rasheda Ghaffari	06/16/2022 02:14	Arthur Maknenko	2333510
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 14:39	Michael Poppell	2333511
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 17:21	Michael Poppell	2333453
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 19:52	Lipi Saha	2333511
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 21:10	Lipi Saha	2333453
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/19/2022 19:35	Michael Poppell	2333511
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/19/2022 22:15	Michael Poppell	2333511
EPA 8276	06/09/2022	06/10/2022 08:00	Rasheda Ghaffari	06/24/2022 05:21	Julie Wi	2333510
EPA 8321B	06/09/2022	06/10/2022 13:00	Hoor Shaik	06/11/2022 19:50	Juyoung Kim	2333509
	06/09/2022	06/13/2022 09:30	June Rhew	06/14/2022 03:21	Juyoung Kim	2333508
	06/09/2022	06/13/2022 12:00	Umesh Chiluwal	06/13/2022 20:43	Umesh Chiluwal	2333509
	06/09/2022	06/13/2022 12:00	Umesh Chiluwal	06/14/2022 06:27	Umesh Chiluwal	2333509
SM 2320 B-2011	06/09/2022			06/17/2022 01:21	Dale L. Simmons	2333442
	06/09/2022			06/18/2022 19:38	Dale L. Simmons	2333443
SM 2540 C-2011	06/09/2022			06/14/2022 14:14	Yijie Li	2333442, 2333443
SM 2540 D-2011	06/09/2022			06/14/2022 14:14	Yijie Li	2333442, 2333443
SM 4500-F- C-2011	06/09/2022			06/17/2022 01:21	Dale L. Simmons	2333442
	06/09/2022			07/01/2022 15:06	Sarah A Nixon	2333443
SM 5310 B-2011	06/09/2022			06/16/2022 21:16	Khloe J Berg	2333444
	06/09/2022			06/16/2022 21:31	Khloe J Berg	2333445