

Chemical Analysis Report

TLH-ROC-2022-01-03-01

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

Event Description: **Run 3**
Request ID: **RQ-2022-01-03-51**
Customer: **TLH-ROC**
Project ID: **SMP**

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

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 24-JAN-2022 14:45

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

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Ruth Spring

Collection Date/Time: 01/03/2022 11:05

Field ID: G1TLHR0140

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297055	EPA 180.1 Rev. 2.0	Turbidity	0.50		NTU	P408090	
	EPA 300.0 Rev. 2.1	Chloride	8.1		mg Cl/L	P408203	
		Sulfate	19		mg SO4/L	P408205	
	SM 2120 B-2011	Color (true)**	4.8	I	PCU	P408083	
	SM 2320 B-2011	Total Alkalinity	179		mg CaCO3/L	P408144	
	SM 2540 C-2011	TDS	237		mg/L	P408444	
	SM 2540 D-2011	TSS	2	U	mg/L	P408435	
	SM 4500 F-C-2011	Fluoride	0.065	I	mg F/L	P408146	
2297057	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P408293	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29		mg N/L	P408395	
	EPA 353.2 Rev. 2.0	NO2NO3-N	7.8		mg N/L	P408221	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P408032	MS
	SM 5310 B-2011	Organic Carbon	1.3		mg C/L	P408283	
2297059	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.045		mg P/L	P408077	

Ref. Method and Comment:

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

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

Sample Location: Telford Spring

Collection Date/Time: 01/03/2022 10:15

Field ID: G1TLHR0141

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297056	EPA 180.1 Rev. 2.0	Turbidity	0.25		NTU	P408090	
	EPA 300.0 Rev. 2.1	Chloride	8.5		mg Cl/L	P408203	
		Sulfate	45		mg SO4/L	P408205	
	SM 2120 B-2011	Color (true)**	2.5	U	PCU	P408083	
	SM 2320 B-2011	Total Alkalinity	198		mg CaCO3/L	P408144	
	SM 2540 C-2011	TDS	278	A	mg/L	P408444	
	SM 2540 D-2011	TSS	2	UA	mg/L	P408435	
	SM 4500 F-C-2011	Fluoride	0.20		mg F/L	P408146	
2297058	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P408293	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.16	I	mg N/L	P408395	
	EPA 353.2 Rev. 2.0	NO2NO3-N	4.8		mg N/L	P408221	
	EPA 365.1 Rev. 2.0	Total-P	0.057		mg P/L	P408340	MS
	SM 5310 B-2011	Organic Carbon	0.58	I	mg C/L	P408283	
2297060	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.053		mg P/L	P408077	

Ref. Method and Comment:

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

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

Sample Location: Ichetucknee Riv 80m Upstream

Collection Date/Time: 01/03/2022 11:45

Field ID: G1TLHR0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297064	EPA 8270E	Aldrin	0.68	U	ng/L	P407997	
		Alpha-BHC	0.10	U	ng/L	P407997	
		Alpha-Chlordane	0.21	U	ng/L	P407997	
		Beta-BHC	0.10	U	ng/L	P407997	
		Beta-Cyfluthrin**	1.3	U	ng/L	P407997	
		Bifenthrin**	0.52	U	ng/L	P407997	
		Chlorothalonil	0.52	U	ng/L	P407997	
		Cis-Nonachlor**	0.21	U	ng/L	P407997	
		Cypermethrin	1.6	U	ng/L	P407997	
		Dacthal**	0.16	U	ng/L	P407997	
		DDD-p,p'	0.26	U	ng/L	P407997	
		DDE-p,p'	0.21	U	ng/L	P407997	
		DDT-p,p'	0.53	I	ng/L	P407997	
		Delta-BHC	0.42	U	ng/L	P407997	
		Deltamethrin**	1.3	U	ng/L	P407997	
		Dichlobenil**	0.10	U	ng/L	P407997	
		Dicofol	1.3	U	ng/L	P407997	
		Dieldrin	0.42	U	ng/L	P407997	
		Endosulfan I	0.42	U	ng/L	P407997	
		Endosulfan II	0.42	U	ng/L	P407997	
		Endosulfan Sulfate	0.31	U	ng/L	P407997	
		Endrin	0.42	U	ng/L	P407997	
		Endrin Aldehyde	0.79	U	ng/L	P407997	
		Endrin Ketone	0.42	U	ng/L	P407997	
		Esfenvalerate**	0.79	U	ng/L	P407997	
		Ethalfuralin**	0.16	U	ng/L	P407997	
		Fenpropathrin**	0.26	U	ng/L	P407997	
		Gamma-BHC	0.13	U	ng/L	P407997	
		Gamma-Chlordane	0.21	U	ng/L	P407997	
		Heptachlor	0.21	U	ng/L	P407997	
		Heptachlor Epoxide	0.26	U	ng/L	P407997	
		Hexachlorobenzene	1.0	U	ng/L	P407997	
		Kepone**	5.2	U	ng/L	P407997	
		Lambda-Cyhalothrin**	0.79	U	ng/L	P407997	
		Methoprene**	0.79	U	ng/L	P407997	
		Methoxychlor	0.31	U	ng/L	P407997	
		MGK-264**	0.21	U	ng/L	P407997	
		Mirex	0.73	U	ng/L	P407997	
		Oxychlordane**	0.31	U	ng/L	P407997	
		Permethrin	1.7	U	ng/L	P407997	
		Phenothrin**	0.94	U	ng/L	P407997	
		Piperonyl Butoxide**	0.16	U	ng/L	P407997	
		Prallethrin**	2.1	U	ng/L	P407997	
		Tau-Fluvalinate**	0.26	U	ng/L	P407997	

Field ID: G1TLHR0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297064	EPA 8270E	Tetramethrin**	0.79	U	ng/L	P407997	
		Trans-Nonachlor**	0.21	U	ng/L	P407997	
		Triclosan Methyl**	0.16	U	ng/L	P407997	
		Trifluralin	0.21	U	ng/L	P407997	
	EPA 8276	Chlordane	2.6	U	ng/L	P407997	
		Toxaphene	16	U	ng/L	P407997	
2297065	EPA 8270E	Acetochlor	0.25	U	ng/L	P408026	
		Alachlor	0.25	U	ng/L	P408026	
		Ametryn	0.61	U	ng/L	P408026	
		Atrazine	0.25	U	ng/L	P408026	
		Atrazine Desethyl	1.5	U	ng/L	P408026	
		Azinphos Methyl	2.0	U	ng/L	P408026	
		Azoxystrobin**	0.51	U	ng/L	P408026	
		Bromacil	0.51	U	ng/L	P408026	
		Butylate	0.40	U	ng/L	P408026	
		Caffeine**	7.6	U	ng/L	P408026	
		Carbophenothion	2.5	U	ng/L	P408026	
		Carfentrazone Ethyl**	0.10	U	ng/L	P408026	
		Chlorfenapyr**	0.18	U	ng/L	P408026	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P408026	
		Chlorpyrifos Methyl	0.051	U	ng/L	P408026	
		Coumaphos**	0.51	U	ng/L	P408026	
		Cyanazine	3.3	U	ng/L	P408026	
		Cyprodinil**	0.10	U	ng/L	P408026	
		Demeton	1.5	U	ng/L	P408026	
		Diazinon	0.13	U	ng/L	P408026	
		Difenoconazole**	0.61	U	ng/L	P408026	
		Dimethenamid**	0.10	U	ng/L	P408026	
		Dimethomorph**	0.18	UJ	ng/L	P408026	LCS, MS
		Disulfoton	0.51	U	ng/L	P408026	
		Dithiopyr**	0.18	U	ng/L	P408026	
		EPTC	1.3	U	ng/L	P408026	
		Ethion	0.15	U	ng/L	P408026	
		Ethoprop	0.10	U	ng/L	P408026	
		Etridiazole**	0.15	U	ng/L	P408026	
		Fenamiphos	0.51	U	ng/L	P408026	
		Fenbuconazole**	0.13	U	ng/L	P408026	
		Fipronil	0.25	U	ng/L	P408026	
		Fipronil Desulfinyl**	0.13	U	ng/L	P408026	
		Fipronil Sulfide	0.15	U	ng/L	P408026	
		Fipronil Sulfone	0.15	U	ng/L	P408026	
		Fluazifop-P-butyl**	0.10	U	ng/L	P408026	
		Fludioxonil**	0.13	U	ng/L	P408026	
		Flumioxazin**	1.8	U	ng/L	P408026	
		Flutolanil**	0.10	U	ng/L	P408026	

Field ID: G1TLHR0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297065	EPA 8270E	Fluxapyroxad**	0.10	U	ng/L	P408026	
		Fonofos	0.20	U	ng/L	P408026	
		Hexazinone	0.51	U	ng/L	P408026	
		Imazalil**	0.76	U	ng/L	P408026	
		Iprodione**	0.61	U	ng/L	P408026	
		Loratadine**	0.10	UJ	ng/L	P408026	LCS
		Malathion	0.35	U	ng/L	P408026	
		Metaxyl	0.76	U	ng/L	P408026	
		Metolachlor	0.35	U	ng/L	P408026	
		Metribuzin	2.5	U	ng/L	P408026	
		Mevinphos	1.1	U	ng/L	P408026	
		Molinate	0.30	U	ng/L	P408026	
		Myclobutanil**	0.25	U	ng/L	P408026	
		Naled**	1.5	U	ng/L	P408026	
		Napropamide**	0.40	U	ng/L	P408026	
		Norflurazon	0.51	U	ng/L	P408026	
		Oxadiazon	0.30	U	ng/L	P408026	
		Oxyfluorfen**	0.15	U	ng/L	P408026	
		Parathion Ethyl	0.25	U	ng/L	P408026	
		Parathion Methyl	0.56	U	ng/L	P408026	
		Pendimethalin	1.0	U	ng/L	P408026	
		Phenytol**	3.5	UJ	ng/L	P408026	LCS, MS
		Phorate	0.53	U	ng/L	P408026	
		Prodiamine**	0.30	U	ng/L	P408026	
		Prometon	0.91	U	ng/L	P408026	
		Prometryn	0.20	U	ng/L	P408026	
		Pronamide**	0.15	U	ng/L	P408026	
		Propanil**	0.13	U	ng/L	P408026	
		Propargite**	1.5	U	ng/L	P408026	
		Propiconazole**	0.51	U	ng/L	P408026	
		Pyraflufen Ethyl**	0.25	U	ng/L	P408026	
		Pyridaben**	0.45	U	ng/L	P408026	
		Pyriproxyfen**	0.13	U	ng/L	P408026	
		Simazine	0.51	U	ng/L	P408026	
		Stirophos**	0.13	U	ng/L	P408026	
		Sulfentrazone**	0.51	U	ng/L	P408026	
		Tebuconazole**	0.51	U	ng/L	P408026	
		Terbufos	0.10	U	ng/L	P408026	
		Terbutylazine	0.43	U	ng/L	P408026	
		Thiobencarb**	0.61	U	ng/L	P408026	
		Triadimefon**	0.25	U	ng/L	P408026	
2297068	EPA 8321B	2,4-D	0.0020	U	ug/L	P408154	
		Acesulfame K	0.10	U	ug/L	P408153	
		2,4,5-T	0.0040	U	ug/L	P408154	
		AMPA	0.10	U	ug/L	P408153	

Field ID: G1TLHR0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297068	EPA 8321B	Acetaminophen	0.0080	U	ug/L	P408154	
		Acetamiprid	0.0020	U	ug/L	P408154	
		Endothall	0.25	U	ug/L	P408153	
		Glufosinate	0.10	U	ug/L	P408153	
		Glyphosate	0.10	U	ug/L	P408153	
		Afidopyropen	0.0020	U	ug/L	P408154	
		Bentazon	8.0E-04	U	ug/L	P408154	
		Sucralose	0.010	U	ug/L	P408153	
		Benzovindiflupyr	0.0020	U	ug/L	P408154	
		Carbamazepine	8.0E-04	U	ug/L	P408154	
		Clothianidin	0.0020	U	ug/L	P408154	
		Dinotefuran	0.0020	U	ug/L	P408154	
		Diuron	0.0020	U	ug/L	P408154	
		Fenuron	0.016	U	ug/L	P408154	
		Fluridone	8.0E-04	U	ug/L	P408154	
		Imazapyr	0.0040	U	ug/L	P408154	
		Hydrocodone	0.0020	U	ug/L	P408154	
		Ibuprofen	0.020	U	ug/L	P408154	
		Imidacloprid	0.0020	U	ug/L	P408154	
		Linuron	0.0040	U	ug/L	P408154	
		Mandestrobin	0.0020	U	ug/L	P408154	
		MCPP	0.0040	U	ug/L	P408154	
		Naproxen	0.0080	U	ug/L	P408154	
		Primidone	0.0040	U	ug/L	P408154	
		Pyraclostrobin	0.0020	U	ug/L	P408154	
		Silvex	0.0040	U	ug/L	P408154	
		Thiamethoxam	0.0020	U	ug/L	P408154	
		Tolfenpyrad	0.0020	UJ	ug/L	P408154	RPD
		Triclopyr	0.0040	U	ug/L	P408154	

Ref. Method and Comment:

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

EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Ichetucknee Spring Group

Collection Date/Time: 01/03/2022 12:25

Field ID: G1TLHR0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297066	EPA 8270E	Aldrin	0.69	U	ng/L	P407997	
		Alpha-BHC	0.11	U	ng/L	P407997	
		Alpha-Chlordane	0.21	U	ng/L	P407997	
		Beta-BHC	0.11	U	ng/L	P407997	
		Beta-Cyfluthrin**	1.3	U	ng/L	P407997	
		Bifenthrin**	0.53	U	ng/L	P407997	
		Chlorothalonil	0.53	U	ng/L	P407997	
		Cis-Nonachlor**	0.21	U	ng/L	P407997	
		Cypermethrin	1.6	U	ng/L	P407997	
		Dacthal**	0.16	U	ng/L	P407997	
		DDD-p,p'	0.27	U	ng/L	P407997	
		DDE-p,p'	0.21	U	ng/L	P407997	
		DDT-p,p'	0.27	U	ng/L	P407997	
		Delta-BHC	0.43	U	ng/L	P407997	
		Deltamethrin**	1.3	U	ng/L	P407997	
		Dichlobenil**	0.11	U	ng/L	P407997	
		Dicofol	1.3	U	ng/L	P407997	
		Diieldrin	0.43	U	ng/L	P407997	
		Endosulfan I	0.43	U	ng/L	P407997	
		Endosulfan II	0.43	U	ng/L	P407997	
		Endosulfan Sulfate	0.32	U	ng/L	P407997	
		Endrin	0.43	U	ng/L	P407997	
		Endrin Aldehyde	0.80	U	ng/L	P407997	
		Endrin Ketone	0.43	U	ng/L	P407997	
		Esfenvalerate**	0.80	U	ng/L	P407997	
		Ethalfuralin**	0.16	U	ng/L	P407997	
		Fenpropathrin**	0.27	U	ng/L	P407997	
		Gamma-BHC	0.13	U	ng/L	P407997	
		Gamma-Chlordane	0.21	U	ng/L	P407997	
		Heptachlor	0.21	U	ng/L	P407997	
		Heptachlor Epoxide	0.27	U	ng/L	P407997	
		Hexachlorobenzene	1.1	U	ng/L	P407997	
		Kepone**	5.3	U	ng/L	P407997	
		Lambda-Cyhalothrin**	0.80	U	ng/L	P407997	
		Methoprene**	0.80	U	ng/L	P407997	
		Methoxychlor	0.32	U	ng/L	P407997	
		MGK-264**	0.21	U	ng/L	P407997	
		Mirex	0.74	U	ng/L	P407997	
		Oxychlordane**	0.32	U	ng/L	P407997	
		Permethrin	1.7	U	ng/L	P407997	
		Phenothrin**	0.96	U	ng/L	P407997	
		Piperonyl Butoxide**	0.16	U	ng/L	P407997	
		Prallethrin**	2.1	U	ng/L	P407997	
		Tau-Fluvalinate**	0.27	U	ng/L	P407997	

Field ID: G1TLHR0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297066	EPA 8270E	Tetramethrin**	0.80	U	ng/L	P407997	
		Trans-Nonachlor**	0.21	U	ng/L	P407997	
		Triclosan Methyl**	0.16	U	ng/L	P407997	
		Trifluralin	0.21	U	ng/L	P407997	
	EPA 8276	Chlordane	2.7	U	ng/L	P407997	
		Toxaphene	16	U	ng/L	P407997	
2297067	EPA 8270E	Acetochlor	0.25	U	ng/L	P408026	
		Alachlor	0.25	U	ng/L	P408026	
		Ametryn	0.59	U	ng/L	P408026	
		Atrazine	0.25	U	ng/L	P408026	
		Atrazine Desethyl	1.5	U	ng/L	P408026	
		Azinphos Methyl	2.0	U	ng/L	P408026	
		Azoxystrobin**	0.49	U	ng/L	P408026	
		Bromacil	0.49	U	ng/L	P408026	
		Butylate	0.40	U	ng/L	P408026	
		Caffeine**	7.4	U	ng/L	P408026	
		Carbophenothion	2.5	U	ng/L	P408026	
		Carfentrazone Ethyl**	0.099	U	ng/L	P408026	
		Chlorfenapyr**	0.17	U	ng/L	P408026	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P408026	
		Chlorpyrifos Methyl	0.049	U	ng/L	P408026	
		Coumaphos**	0.49	U	ng/L	P408026	
		Cyanazine	3.2	U	ng/L	P408026	
		Cyprodinil**	0.099	U	ng/L	P408026	
		Demeton	1.5	U	ng/L	P408026	
		Diazinon	0.12	U	ng/L	P408026	
		Difenoconazole**	0.59	U	ng/L	P408026	
		Dimethenamid**	0.099	U	ng/L	P408026	
		Dimethomorph**	0.17	UJ	ng/L	P408026	LCS, MS
		Disulfoton	0.49	U	ng/L	P408026	
		Dithiopyr**	0.17	U	ng/L	P408026	
		EPTC	1.2	U	ng/L	P408026	
		Ethion	0.15	U	ng/L	P408026	
		Ethoprop	0.099	U	ng/L	P408026	
		Etridiazole**	0.15	U	ng/L	P408026	
		Fenamiphos	0.49	U	ng/L	P408026	
		Fenbuconazole**	0.12	U	ng/L	P408026	
		Fipronil	0.25	U	ng/L	P408026	
		Fipronil Desulfinyl**	0.12	U	ng/L	P408026	
		Fipronil Sulfide	0.15	U	ng/L	P408026	
		Fipronil Sulfone	0.15	U	ng/L	P408026	
		Fluazifop-P-butyl**	0.099	U	ng/L	P408026	
		Fludioxonil**	0.12	U	ng/L	P408026	
		Flumioxazin**	1.7	U	ng/L	P408026	
		Flutolanil**	0.099	U	ng/L	P408026	

Field ID: G1TLHR0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297067	EPA 8270E	Fluxapyroxad**	0.099	U	ng/L	P408026	
		Fonofos	0.20	U	ng/L	P408026	
		Hexazinone	0.49	U	ng/L	P408026	
		Imazalil**	0.74	U	ng/L	P408026	
		Iprodione**	0.59	U	ng/L	P408026	
		Loratadine**	0.099	UJ	ng/L	P408026	LCS
		Malathion	0.35	U	ng/L	P408026	
		Metaxyl	0.74	U	ng/L	P408026	
		Metolachlor	0.35	U	ng/L	P408026	
		Metribuzin	2.5	U	ng/L	P408026	
		Mevinphos	1.0	U	ng/L	P408026	
		Molinate	0.30	U	ng/L	P408026	
		Myclobutanil**	0.25	U	ng/L	P408026	
		Naled**	1.5	U	ng/L	P408026	
		Napropamide**	0.40	U	ng/L	P408026	
		Norflurazon	0.49	U	ng/L	P408026	
		Oxadiazon	0.30	U	ng/L	P408026	
		Oxyfluorfen**	0.15	U	ng/L	P408026	
		Parathion Ethyl	0.25	U	ng/L	P408026	
		Parathion Methyl	0.54	U	ng/L	P408026	
		Pendimethalin	0.99	U	ng/L	P408026	
		Phenytol**	3.5	UJ	ng/L	P408026	LCS, MS
		Phorate	0.52	U	ng/L	P408026	
		Prodiamine**	0.30	U	ng/L	P408026	
		Prometon	0.89	U	ng/L	P408026	
		Prometryn	0.20	U	ng/L	P408026	
		Pronamide**	0.15	U	ng/L	P408026	
		Propanil**	0.12	U	ng/L	P408026	
		Propargite**	1.5	U	ng/L	P408026	
		Propiconazole**	0.49	U	ng/L	P408026	
		Pyraflufen Ethyl**	0.25	U	ng/L	P408026	
		Pyridaben**	0.45	U	ng/L	P408026	
		Pyriproxyfen**	0.12	U	ng/L	P408026	
		Simazine	0.49	U	ng/L	P408026	
		Stirophos**	0.12	U	ng/L	P408026	
		Sulfentrazone**	0.49	U	ng/L	P408026	
		Tebuconazole**	0.49	U	ng/L	P408026	
		Terbufos	0.099	U	ng/L	P408026	
		Terbutylazine	0.42	U	ng/L	P408026	
		Thiobencarb**	0.59	U	ng/L	P408026	
		Triadimefon**	0.25	U	ng/L	P408026	
2297069	EPA 8321B	2,4-D	0.0020	U	ug/L	P408154	
		Acesulfame K	0.10	U	ug/L	P408153	
		2,4,5-T	0.0040	U	ug/L	P408154	
		AMPA	0.10	U	ug/L	P408153	

Field ID: G1TLHR0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2297069	EPA 8321B	Acetaminophen	0.0080	U	ug/L	P408154	
		Acetamiprid	0.0020	U	ug/L	P408154	
		Endothall	0.25	U	ug/L	P408153	
		Glufosinate	0.10	U	ug/L	P408153	
		Glyphosate	0.10	U	ug/L	P408153	
		Afidopyropen	0.0020	U	ug/L	P408154	
		Bentazon	8.0E-04	U	ug/L	P408154	
		Sucralose	0.010	U	ug/L	P408153	
		Benzovindiflupyr	0.0020	U	ug/L	P408154	
		Carbamazepine	8.0E-04	U	ug/L	P408154	
		Clothianidin	0.0020	U	ug/L	P408154	
		Dinotefuran	0.0020	U	ug/L	P408154	
		Diuron	0.0020	U	ug/L	P408154	
		Fenuron	0.016	U	ug/L	P408154	
		Fluridone	8.0E-04	U	ug/L	P408154	
		Imazapyr	0.0040	U	ug/L	P408154	
		Hydrocodone	0.0020	U	ug/L	P408154	
		Ibuprofen	0.020	U	ug/L	P408154	
		Imidacloprid	0.0020	U	ug/L	P408154	
		Linuron	0.0040	U	ug/L	P408154	
		Mandestrobin	0.0020	U	ug/L	P408154	
		MCPP	0.0040	U	ug/L	P408154	
		Naproxen	0.0080	U	ug/L	P408154	
		Primidone	0.0040	U	ug/L	P408154	
		Pyraclostrobin	0.0020	U	ug/L	P408154	
		Silvex	0.0040	U	ug/L	P408154	
		Thiamethoxam	0.0020	U	ug/L	P408154	
		Tolfenpyrad	0.0020	U	ug/L	P408154	RPD
		Triclopyr	0.0040	U	ug/L	P408154	

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P408090

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P408203

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P408205

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408293

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408395

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408221

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408032

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408340

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408077

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P407997

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	0.50	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.10	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P407997

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
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P408026

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P408026

Component	Result	Code	Units
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
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	2.5	U	ng/L
Carbophenothion	2.5	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P408026

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P408026

Component	Result	Code	Units
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.30	U	ng/L
Prodiamine	0.30	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P408026

Component	Result	Code	Units
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276
Batch ID: P407997

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: P408153

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P408154

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	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P408154

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B-2011
Batch ID: P408083

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P408144

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

Reference Method: SM 2540 C-2011
Batch ID: P408444

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P408435

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P408146

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P408283

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P408203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P408205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408293

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408395

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408221

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: P408032

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	109		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408340

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408077

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

Reference Method: EPA 8270E
Batch ID: P407997

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	44.5		P	20 - 83.0
Alpha-BHC	89.3		P	74 - 108
Alpha-Chlordane	75.8		P	53 - 109
Beta-BHC	105		P	64 - 139

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P407997

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	77.4		P	27 - 171
Bifenthrin	62.7		P	20 - 124
Chlorothalonil	90.1		P	20 - 182
Cis-Nonachlor	70.7		P	46 - 110
Cypermethrin	61.3		P	35 - 160
Dacthal	92.3		P	70 - 115
DDD-p,p'	68.7		P	51 - 108
DDE-p,p'	77.7		P	51 - 104
DDT-p,p'	82.4		P	52 - 107
Delta-BHC	110		P	73 - 146
Deltamethrin	74.0		P	20 - 190
Dichlobenil	74.5		P	30 - 100
Dicofol	73.3		P	52 - 110
Dieldrin	79.0		P	57 - 111
Endosulfan I	78.6		P	61 - 106
Endosulfan II	71.8		P	57 - 122
Endosulfan Sulfate	88.2		P	58 - 122
Endrin	68.8		P	34 - 125
Endrin Aldehyde	79.2		P	40 - 120
Endrin Ketone	90.7		P	51 - 138
Esfenvalerate	67.3		P	20 - 193
Ethalfuralin	69.0		P	51 - 99.0
Fenpropathrin	72.9		P	40 - 116
Gamma-BHC	97.2		P	74 - 116
Gamma-Chlordane	73.5		P	49 - 105
Heptachlor	61.2		P	45 - 98.0
Heptachlor Epoxide	76.5		P	61 - 106
Hexachlorobenzene	65.8		P	41 - 96.0
Kepone	136		P	27 - 179
Lambda-Cyhalothrin	58.0		P	20 - 199
Methoprene	50.2		P	20 - 134
Methoxychlor	82.0		P	61 - 111
MGK-264	77.5		P	20 - 124
Mirex	47.3		P	20 - 199
Oxychlordane	70.1		P	39 - 112
Permethrin	88.4		P	31 - 155
Phenothrin	43.8		P	20 - 100
Piperonyl Butoxide	90.7		P	20 - 144
Prallethrin	67.2		P	20 - 103
Tau-Fluvalinate	61.5		P	24 - 133
Tetramethrin	64.6		P	20 - 116
Trans-Nonachlor	72.1		P	49 - 105
Triclosan Methyl	79.4		P	60 - 111
Trifluralin	69.3		P	53 - 97.0

Reference Method: EPA 8270E
Batch ID: P408026

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	108		P	70 - 121
Alachlor	99.3		P	70 - 119
Ametryn	105		P	61 - 135

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P408026

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	98.4		P	76 - 123
Atrazine Desethyl	71.5		P	35 - 140
Azinphos Methyl	107		P	57 - 163
Azoxystrobin	113		P	43 - 231
Bromacil	93.1		P	42 - 123
Butylate	60.5		P	34 - 92.0
Caffeine	76.1		P	70 - 130
Carbophenothion	92.1		P	61 - 121
Carfentrazone Ethyl	106		P	62 - 139
Chlorfenapyr	84.8		P	50 - 150
Chlorpyrifos Ethyl	86.2		P	67 - 121
Chlorpyrifos Methyl	96.7		P	67 - 120
Coumaphos	77.6		P	50 - 220
Cyanazine	133		P	20 - 226
Cyprodinil	112		P	50 - 150
Demeton	125		P	35 - 125
Diazinon	110		P	70 - 122
Difenoconazole	76.4		P	56 - 186
Dimethenamid	84.1		P	67 - 119
Dimethomorph	198		F	50 - 150
Disulfoton	98.3		P	47 - 120
Dithiopyr	98.5		P	67 - 118
EPTC	60.8		P	33 - 90.0
Ethion	71.6		P	40 - 133
Ethoprop	87.3		P	61 - 121
Etridiazole	72.7		P	50 - 150
Fenamiphos	90.2		P	31 - 139
Fenbuconazole	80.9		P	66 - 141
Fipronil	105		P	62 - 129
Fipronil Desulfinyl	110		P	59 - 126
Fipronil Sulfide	90.2		P	63 - 117
Fipronil Sulfone	81.0		P	57 - 117
Fluazifop-P-butyl	92.9		P	63 - 124
Fludioxonil	98.4		P	63 - 123
Flumioxazin	87.0		P	34 - 245
Flutolanil	91.1		P	56 - 131
Fluxapyroxad	82.6		P	57 - 117
Fonofos	89.9		P	61 - 116
Hexazinone	94.3		P	55 - 138
Imazalil	108		P	33 - 143
Iprodione	97.1		P	59 - 118
Loratadine	180		F	50 - 150
Malathion	88.3		P	62 - 138
Metalaxyl	94.5		P	24 - 147
Metolachlor	90.3		P	68 - 118
Metribuzin	107		P	20 - 239
Mevinphos	82.8		P	46 - 124
Molinate	72.8		P	46 - 100
Myclobutanil	96.0		P	32 - 149
Naled	86.4		P	32 - 95.0
Napropamide	87.3		P	50 - 150
Norflurazon	89.0		P	57 - 127

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P408026

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxadiazon	77.3		P	63 - 118
Oxyfluorfen	114		P	69 - 137
Parathion Ethyl	100		P	70 - 113
Parathion Methyl	118		P	71 - 130
Pendimethalin	113		P	55 - 118
Phenytoin	34.9		F	50 - 200
Phorate	74.6		P	46 - 125
Prodiamine	50.4		P	20 - 141
Prometon	98.3		P	54 - 122
Prometryn	99.3		P	66 - 124
Pronamide	103		P	79 - 122
Propanil	120		P	50 - 150
Propargite	83.4		P	50 - 200
Propiconazole	94.7		P	61 - 126
Pyraflufen Ethyl	97.9		P	50 - 150
Pyridaben	84.0		P	50 - 200
Pyriproxyfen	81.3		P	52 - 131
Simazine	95.7		P	75 - 128
Stirophos	75.1		P	50 - 150
Sulfentrazone	63.6		P	20 - 132
Tebuconazole	66.0		P	20 - 116
Terbufos	116		P	61 - 117
Terbutylazine	90.4		P	74 - 116
Thiobencarb	97.9		P	50 - 150
Triadimefon	95.7		P	50 - 150

Reference Method: EPA 8276

Batch ID: P407997

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	70.3		P	56 - 117
Toxaphene	76.9		P	45 - 116

Reference Method: EPA 8321B

Batch ID: P408153

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.5		P	40 - 150
AMPA	99.8		P	40 - 160
Endothall	85.4		P	40 - 150
Glufosinate	104		P	40 - 160
Glyphosate	104		P	40 - 160
Sucralose	86.3		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P408154

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	88.0		P	40 - 150
2,4,5-T	102		P	40 - 150
Acetaminophen	93.4		P	30 - 150
Acetamiprid	90.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P408154

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Afidopyropen	70.2		P	40 - 150
Bentazon	104		P	30 - 150
Benzovindiflupyr	82.0		P	40 - 150
Carbamazepine	93.8		P	40 - 150
Clothianidin	84.9		P	40 - 150
Dinotefuran	104		P	40 - 150
Diuron	83.3		P	40 - 150
Fenuron	102		P	40 - 150
Fluridone	91.6		P	40 - 150
Hydrocodone	97.4		P	40 - 150
Ibuprofen	108		P	40 - 150
Imazapyr	88.5		P	40 - 150
Imidacloprid	101		P	40 - 150
Linuron	81.2		P	40 - 150
Mandestrobin	93.2		P	40 - 150
MCPP	96.1		P	40 - 150
Naproxen	74.8		P	40 - 150
Primidone	85.9		P	40 - 150
Pyraclostrobin	81.2		P	40 - 150
Silvex	92.5		P	40 - 150
Thiamethoxam	106		P	40 - 150
Tolfenpyrad	58.2		P	30 - 150
Triclopyr	108		P	40 - 150

Reference Method: SM 2120 B-2011

Batch ID: P408083

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	105		P	90 - 110

Reference Method: SM 2320 B-2011

Batch ID: P408144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.0		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P408146

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	93 - 104

Reference Method: SM 5310 B-2011

Batch ID: P408283

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P408203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296786	Chloride	102		P	90 - 110
2296876	Chloride	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P408205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296786	Sulfate	100		P	90 - 110
2296876	Sulfate	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408293

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297057	Ammonia-N	94.6	94.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408395

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296868	Kjeldahl Nitrogen	95.2	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297039	NO2NO3-N	96.7	97.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408032

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297039	Total-P	110	113	F/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408340

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297090	Total-P	112	110	F/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408077

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297076	O-Phosphate-P	102	102	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P407997

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297024	Aldrin	45.8	47.4	P/P	10 - 94.0
2297024	Alpha-BHC	92.3	90.5	P/P	71 - 108

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P407997

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297024	Alpha-Chlordane	70.3	70.1	P/P	42 - 115
2297024	Beta-BHC	105	103	P/P	56 - 161
2297024	Beta-Cyfluthrin	101	97.6	P/P	46 - 190
2297024	Bifenthrin	70.8	73.5	P/P	19 - 126
2297024	Chlorothalonil	109	98.0	P/P	10 - 262
2297024	Cis-Nonachlor	68.6	69.5	P/P	44 - 112
2297024	Cypermethrin	82.0	80.9	P/P	40 - 178
2297024	Dacthal	90.5	89.3	P/P	60 - 119
2297024	DDD-p,p'	66.8	66.6	P/P	40 - 114
2297024	DDE-p,p'	75.8	74.0	P/P	22 - 125
2297024	DDT-p,p'	84.3	77.5	P/P	39 - 110
2297024	Delta-BHC	119	113	P/P	64 - 174
2297024	Deltamethrin	81.2	83.4	P/P	10 - 227
2297024	Dichlobenil	83.6	85.3	P/P	20 - 99.0
2297024	Dicofol	74.5	72.2	P/P	43 - 115
2297024	Dieldrin	73.9	68.5	P/P	31 - 131
2297024	Endosulfan I	80.0	78.6	P/P	52 - 110
2297024	Endosulfan II	68.7	69.3	P/P	53 - 127
2297024	Endosulfan Sulfate	96.6	86.3	P/P	44 - 135
2297024	Endrin	67.9	67.1	P/P	36 - 122
2297024	Endrin Aldehyde	51.6	60.3	P/P	23 - 115
2297024	Endrin Ketone	88.9	87.6	P/P	46 - 147
2297024	Esfenvalerate	83.9	85.0	P/P	25 - 217
2297024	Ethalfuralin	66.0	67.3	P/P	46 - 99.0
2297024	Fenpropathrin	80.8	80.0	P/P	42 - 121
2297024	Gamma-BHC	100	98.3	P/P	63 - 131
2297024	Gamma-Chlordane	71.2	69.8	P/P	40 - 108
2297024	Heptachlor	63.0	64.5	P/P	38 - 98.0
2297024	Heptachlor Epoxide	71.6	71.5	P/P	39 - 124
2297024	Hexachlorobenzene	71.3	71.3	P/P	37 - 96.0
2297024	Kepone	30.4	26.4	P/P	10 - 216
2297024	Lambda-Cyhalothrin	81.7	81.8	P/P	21 - 220
2297024	Methoprene	59.7	63.1	P/P	19 - 112
2297024	Methoxychlor	84.7	82.0	P/P	56 - 118
2297024	MGK-264	78.8	75.1	P/P	28 - 125
2297024	Mirex	51.6	51.0	P/P	10 - 203
2297024	Oxychlordane	72.4	67.5	P/P	46 - 92.0
2297024	Permethrin	102	105	P/P	42 - 173
2297024	Phenothrin	64.1	69.1	P/P	10 - 140
2297024	Piperonyl Butoxide	100	102	P/P	10 - 158
2297024	Prallethrin	59.8	61.5	P/P	19 - 119
2297024	Tau-Fluvalinate	75.8	77.4	P/P	27 - 164
2297024	Tetramethrin	85.7	86.7	P/P	16 - 130
2297024	Trans-Nonachlor	72.9	72.7	P/P	43 - 105
2297024	Triclosan Methyl	77.1	76.6	P/P	50 - 113
2297024	Trifluralin	68.0	69.9	P/P	48 - 98.0

Reference Method: EPA 8270E
Batch ID: P408026

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297065	Acetochlor	108	105	P/P	66 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P408026

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297065	Alachlor	92.7	96.9	P/P	65 - 122
2297065	Ametryn	106	108	P/P	45 - 173
2297065	Atrazine	92.9	93.2	P/P	70 - 134
2297065	Atrazine Desethyl	69.8	69.6	P/P	25 - 150
2297065	Azinphos Methyl	106	110	P/P	44 - 174
2297065	Azoxystrobin	107	102	P/P	10 - 268
2297065	Bromacil	82.8	90.1	P/P	31 - 145
2297065	Butylate	59.5	72.2	P/P	15 - 97.0
2297065	Caffeine	75.2	79.1	P/P	70 - 130
2297065	Carbophenothion	92.7	96.6	P/P	42 - 129
2297065	Carfentrazone Ethyl	110	109	P/P	62 - 145
2297065	Chlorfenapyr	86.8	84.7	P/P	50 - 150
2297065	Chlorpyrifos Ethyl	82.8	89.3	P/P	60 - 124
2297065	Chlorpyrifos Methyl	90.4	95.0	P/P	66 - 119
2297065	Coumaphos	94.3	97.1	P/P	50 - 220
2297065	Cyanazine	124	140	P/P	17 - 225
2297065	Cyprodinil	109	107	P/P	50 - 150
2297065	Demeton	110	123	P/P	36 - 142
2297065	Diazinon	113	108	P/P	70 - 128
2297065	Difenoconazole	129	110	P/P	33 - 222
2297065	Dimethenamid	82.1	79.9	P/P	54 - 125
2297065	Dimethomorph	149	158	P/F	50 - 150
2297065	Disulfoton	94.2	93.1	P/P	49 - 133
2297065	Dithiopyr	104	98.6	P/P	55 - 123
2297065	EPTC	60.1	75.3	P/P	19 - 91.0
2297065	Ethion	64.5	63.9	P/P	13 - 143
2297065	Ethoprop	88.2	94.5	P/P	49 - 144
2297065	Etridiazole	74.2	83.6	P/P	50 - 150
2297065	Fenamiphos	84.2	91.1	P/P	32 - 136
2297065	Fenbuconazole	104	103	P/P	73 - 148
2297065	Fipronil	110	107	P/P	57 - 129
2297065	Fipronil Desulfinyl	110	108	P/P	49 - 127
2297065	Fipronil Sulfide	87.0	91.9	P/P	44 - 127
2297065	Fipronil Sulfone	74.4	78.9	P/P	35 - 126
2297065	Fluazifop-P-butyl	101	99.5	P/P	67 - 129
2297065	Fludioxonil	93.6	96.1	P/P	61 - 126
2297065	Flumioxazin	142	130	P/P	38 - 279
2297065	Flutolanil	90.1	93.3	P/P	55 - 136
2297065	Fluxapyroxad	82.0	86.0	P/P	33 - 140
2297065	Fonofos	86.3	98.5	P/P	58 - 125
2297065	Hexazinone	86.2	90.2	P/P	57 - 148
2297065	Imazalil	100	85.0	P/P	10 - 221
2297065	Iprodione	101	97.9	P/P	32 - 140
2297065	Loratadine	134	146	P/P	50 - 150
2297065	Malathion	85.9	88.1	P/P	52 - 138
2297065	Metalaxyl	93.4	92.0	P/P	46 - 134
2297065	Metolachlor	92.6	91.2	P/P	58 - 122
2297065	Metribuzin	91.9	102	P/P	16 - 272
2297065	Mevinphos	79.1	84.9	P/P	45 - 140
2297065	Molinate	71.1	82.2	P/P	41 - 103
2297065	Myclobutanil	95.3	93.7	P/P	60 - 134
2297065	Naled	87.1	98.2	P/P	20 - 113

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P408026

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297065	Napropamide	90.4	92.9	P/P	50 - 150
2297065	Norflurazon	86.7	87.4	P/P	51 - 123
2297065	Oxadiazon	85.2	82.1	P/P	44 - 125
2297065	Oxyfluorfen	120	115	P/P	66 - 176
2297065	Parathion Ethyl	91.0	95.1	P/P	57 - 132
2297065	Parathion Methyl	106	109	P/P	59 - 156
2297065	Pendimethalin	95.0	117	P/P	59 - 129
2297065	Phenytoin	41.9	39.2	F/F	50 - 200
2297065	Phorate	81.9	84.9	P/P	47 - 136
2297065	Prodiamine	47.7	53.8	P/P	10 - 159
2297065	Prometon	94.1	88.7	P/P	59 - 127
2297065	Prometryn	97.8	96.1	P/P	59 - 129
2297065	Pronamide	96.3	92.7	P/P	65 - 145
2297065	Propanil	116	121	P/P	50 - 150
2297065	Propargite	89.4	81.4	P/P	50 - 200
2297065	Propiconazole	97.9	97.7	P/P	28 - 165
2297065	Pyraflufen Ethyl	103	102	P/P	50 - 150
2297065	Pyridaben	94.9	101	P/P	50 - 200
2297065	Pyriproxyfen	89.2	90.9	P/P	21 - 180
2297065	Simazine	85.9	87.7	P/P	63 - 147
2297065	Stirophos	68.9	72.6	P/P	50 - 150
2297065	Sulfentrazone	77.8	80.6	P/P	32 - 136
2297065	Tebuconazole	68.2	63.3	P/P	10 - 117
2297065	Terbufos	109	115	P/P	61 - 131
2297065	Terbutylazine	90.6	85.0	P/P	62 - 126
2297065	Thiobencarb	102	100	P/P	50 - 150
2297065	Triadimefon	99.0	98.0	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P407997

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297066	Chlordane	81.4	79.5	P/P	47 - 128
2297066	Toxaphene	93.2	85.9	P/P	11 - 163

Reference Method: EPA 8321B

Batch ID: P408153

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297068	Acesulfame K	70.8	69.6	P/P	40 - 150
2297068	AMPA	97.9	99.2	P/P	40 - 160
2297068	Endothall	98.3	94.5	P/P	40 - 150
2297068	Glufosinate	106	105	P/P	40 - 160
2297068	Glyphosate	102	104	P/P	40 - 160
2297068	Sucralose	89.8	90.1	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P408154

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297068	2,4-D	79.4	99.7	P/P	40 - 150
2297068	2,4,5-T	91.9	88.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P408154

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297068	Acetaminophen	91.9	99.2	P/P	30 - 150
2297068	Acetamiprid	88.6	88.4	P/P	40 - 150
2297068	Afidopyropen	75.3	70.0	P/P	40 - 150
2297068	Bentazon	81.0	101	P/P	30 - 150
2297068	Benzovindiflupyr	80.2	85.0	P/P	40 - 150
2297068	Carbamazepine	87.2	96.0	P/P	40 - 150
2297068	Clothianidin	103	105	P/P	40 - 150
2297068	Dinotefuran	103	105	P/P	40 - 150
2297068	Diuron	73.3	81.4	P/P	40 - 150
2297068	Fenuron	98.2	103	P/P	40 - 150
2297068	Fluridone	87.6	87.0	P/P	40 - 150
2297068	Hydrocodone	89.3	94.8	P/P	40 - 150
2297068	Ibuprofen	80.0	81.2	P/P	40 - 150
2297068	Imazapyr	78.1	96.7	P/P	40 - 150
2297068	Imidacloprid	89.3	95.8	P/P	40 - 150
2297068	Linuron	95.0	91.0	P/P	40 - 150
2297068	Mandestrobin	91.0	101	P/P	40 - 150
2297068	MCPP	95.2	99.5	P/P	40 - 150
2297068	Naproxen	92.7	82.5	P/P	40 - 150
2297068	Primidone	116	108	P/P	40 - 150
2297068	Pyraclostrobin	90.3	101	P/P	40 - 150
2297068	Silvex	99.0	101	P/P	40 - 150
2297068	Thiamethoxam	103	108	P/P	40 - 150
2297068	Tolfenpyrad	46.9	68.0	P/P	30 - 150
2297068	Triclopyr	91.5	101	P/P	40 - 150

Reference Method: SM 5310 B-2011
Batch ID: P408283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296865	Organic Carbon	96.1	94.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P408090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297074	Turbidity	6.69	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P408203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296786	Chloride	0.0106	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P408205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296786	Sulfate	0.386	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408293

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297057	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408395

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296868	Kjeldahl Nitrogen	2.63	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297039	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408032

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297039	Total-P	2.26	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297090	Total-P	1.47	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P408077

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297076	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P407997

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297024	Aldrin	3.35	Spike	P	0 - 37
2297024	Alpha-BHC	1.96	Spike	P	0 - 16
2297024	Alpha-Chlordane	0.301	Spike	P	0 - 28
2297024	Beta-BHC	1.96	Spike	P	0 - 32
2297024	Beta-Cyfluthrin	3.37	Spike	P	0 - 41
2297024	Bifenthrin	3.83	Spike	P	0 - 36
2297024	Chlorothalonil	10.9	Spike	P	0 - 54
2297024	Cis-Nonachlor	1.18	Spike	P	0 - 33
2297024	Cypermethrin	1.39	Spike	P	0 - 38
2297024	Dacthal	1.34	Spike	P	0 - 23
2297024	DDD-p,p'	0.302	Spike	P	0 - 35
2297024	DDE-p,p'	2.32	Spike	P	0 - 27
2297024	DDT-p,p'	8.35	Spike	P	0 - 31
2297024	Delta-BHC	5.45	Spike	P	0 - 30
2297024	Deltamethrin	2.73	Spike	P	0 - 76
2297024	Dichlobenil	2.03	Spike	P	0 - 33
2297024	Dicofol	3.09	Spike	P	0 - 24
2297024	Dieldrin	4.33	Spike	P	0 - 35
2297024	Endosulfan I	1.68	Spike	P	0 - 25
2297024	Endosulfan II	0.911	Spike	P	0 - 31
2297024	Endosulfan Sulfate	11.2	Spike	P	0 - 38
2297024	Endrin	1.23	Spike	P	0 - 53
2297024	Endrin Aldehyde	15.6	Spike	P	0 - 81
2297024	Endrin Ketone	1.42	Spike	P	0 - 33
2297024	Esfenvalerate	1.27	Spike	P	0 - 46
2297024	Ethalfuralin	2.01	Spike	P	0 - 22
2297024	Fenpropathrin	0.882	Spike	P	0 - 29
2297024	Gamma-BHC	1.90	Spike	P	0 - 17
2297024	Gamma-Chlordane	1.93	Spike	P	0 - 28
2297024	Heptachlor	2.33	Spike	P	0 - 28
2297024	Heptachlor Epoxide	0.135	Spike	P	0 - 23
2297024	Hexachlorobenzene	0.0126	Spike	P	0 - 22
2297024	Kepone	14.3	Spike	P	0 - 61
2297024	Lambda-Cyhalothrin	0.0459	Spike	P	0 - 52
2297024	Methoprene	5.54	Spike	P	0 - 38
2297024	Methoxychlor	3.18	Spike	P	0 - 29
2297024	MGK-264	4.82	Spike	P	0 - 41
2297024	Mirex	1.10	Spike	P	0 - 39
2297024	Oxychlordane	7.05	Spike	P	0 - 33
2297024	Permethrin	3.35	Spike	P	0 - 39
2297024	Phenothrin	7.57	Spike	P	0 - 52
2297024	Piperonyl Butoxide	1.05	Spike	P	0 - 91
2297024	Prallethrin	2.67	Spike	P	0 - 34
2297024	Tau-Fluvalinate	2.00	Spike	P	0 - 41

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P407997

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297024	Tetramethrin	1.16	Spike	P	0 - 43
2297024	Trans-Nonachlor	0.369	Spike	P	0 - 31
2297024	Triclosan Methyl	0.653	Spike	P	0 - 24
2297024	Trifluralin	2.75	Spike	P	0 - 23

Reference Method: EPA 8270E

Batch ID: P408026

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297065	Acetochlor	2.70	Spike	P	0 - 24
2297065	Alachlor	4.34	Spike	P	0 - 24
2297065	Ametryn	2.45	Spike	P	0 - 27
2297065	Atrazine	0.365	Spike	P	0 - 29
2297065	Atrazine Desethyl	0.281	Spike	P	0 - 30
2297065	Azinphos Methyl	4.07	Spike	P	0 - 50
2297065	Azoxystrobin	4.81	Spike	P	0 - 32
2297065	Bromacil	8.46	Spike	P	0 - 30
2297065	Butylate	19.2	Spike	P	0 - 47
2297065	Caffeine	5.04	Spike	P	0 - 60
2297065	Carbophenothion	4.13	Spike	P	0 - 24
2297065	Carfentrazone Ethyl	0.322	Spike	P	0 - 26
2297065	Chlorfenapyr	2.45	Spike	P	0 - 30
2297065	Chlorpyrifos Ethyl	7.49	Spike	P	0 - 27
2297065	Chlorpyrifos Methyl	5.00	Spike	P	0 - 22
2297065	Coumaphos	2.96	Spike	P	0 - 30
2297065	Cyanazine	11.4	Spike	P	0 - 32
2297065	Cyprodinil	2.36	Spike	P	0 - 30
2297065	Demeton	10.9	Spike	P	0 - 25
2297065	Diazinon	4.30	Spike	P	0 - 24
2297065	Difenoconazole	15.8	Spike	P	0 - 25
2297065	Dimethenamid	2.71	Spike	P	0 - 30
2297065	Dimethomorph	5.57	Spike	P	0 - 30
2297065	Disulfoton	1.16	Spike	P	0 - 26
2297065	Dithiopyr	5.13	Spike	P	0 - 22
2297065	EPTC	22.4	Spike	P	0 - 38
2297065	Ethion	0.875	Spike	P	0 - 47
2297065	Ethoprop	6.92	Spike	P	0 - 23
2297065	Etridiazole	12.0	Spike	P	0 - 30
2297065	Fenamiphos	7.86	Spike	P	0 - 34
2297065	Fenbuconazole	0.859	Spike	P	0 - 37
2297065	Fipronil	3.21	Spike	P	0 - 23
2297065	Fipronil Desulfinyl	1.64	Spike	P	0 - 26
2297065	Fipronil Sulfide	5.52	Spike	P	0 - 23
2297065	Fipronil Sulfone	5.82	Spike	P	0 - 24
2297065	Fluazifop-P-butyl	1.11	Spike	P	0 - 24
2297065	Fludioxonil	2.64	Spike	P	0 - 26
2297065	Flumioxazin	8.35	Spike	P	0 - 37
2297065	Flutolanil	3.53	Spike	P	0 - 26
2297065	Fluxapyroxad	4.79	Spike	P	0 - 34
2297065	Fonofos	13.1	Spike	P	0 - 22

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P408026

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297065	Hexazinone	4.52	Spike	P	0 - 21
2297065	Imazalil	16.3	Spike	P	0 - 65
2297065	Iprodione	2.75	Spike	P	0 - 33
2297065	Loratadine	8.33	Spike	P	0 - 30
2297065	Malathion	2.61	Spike	P	0 - 26
2297065	Metalaxyl	1.50	Spike	P	0 - 38
2297065	Metolachlor	1.57	Spike	P	0 - 36
2297065	Metribuzin	10.8	Spike	P	0 - 29
2297065	Mevinphos	6.96	Spike	P	0 - 26
2297065	Molinate	14.5	Spike	P	0 - 27
2297065	Myclobutanil	1.75	Spike	P	0 - 21
2297065	Naled	11.9	Spike	P	0 - 26
2297065	Napropamide	2.78	Spike	P	0 - 30
2297065	Norflurazon	0.799	Spike	P	0 - 24
2297065	Oxadiazon	3.77	Spike	P	0 - 23
2297065	Oxyfluorfen	3.81	Spike	P	0 - 24
2297065	Parathion Ethyl	4.44	Spike	P	0 - 23
2297065	Parathion Methyl	2.94	Spike	P	0 - 23
2297065	Pendimethalin	20.7	Spike	P	0 - 31
2297065	Phenytoin	6.64	Spike	P	0 - 30
2297065	Phorate	3.67	Spike	P	0 - 27
2297065	Prodiamine	12.0	Spike	P	0 - 52
2297065	Prometon	5.96	Spike	P	0 - 31
2297065	Prometryn	1.67	Spike	P	0 - 24
2297065	Pronamide	3.88	Spike	P	0 - 26
2297065	Propanil	4.32	Spike	P	0 - 30
2297065	Propargite	9.40	Spike	P	0 - 30
2297065	Propiconazole	0.228	Spike	P	0 - 31
2297065	Pyraflufen Ethyl	1.02	Spike	P	0 - 30
2297065	Pyridaben	6.42	Spike	P	0 - 30
2297065	Pyriproxyfen	1.87	Spike	P	0 - 50
2297065	Simazine	2.09	Spike	P	0 - 25
2297065	Stirophos	5.26	Spike	P	0 - 30
2297065	Sulfentrazone	3.47	Spike	P	0 - 33
2297065	Tebuconazole	7.38	Spike	P	0 - 43
2297065	Terbufos	4.74	Spike	P	0 - 22
2297065	Terbuthylazine	6.38	Spike	P	0 - 24
2297065	Thiobencarb	1.81	Spike	P	0 - 30
2297065	Triadimefon	1.01	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P407997

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297066	Chlordane	2.31	Spike	P	0 - 30
2297066	Toxaphene	8.12	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P408153

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297068	Acesulfame K	1.73	Spike	P	0 - 30
2297068	AMPA	1.36	Spike	P	0 - 30
2297068	Endothall	3.97	Spike	P	0 - 30
2297068	Glufosinate	1.28	Spike	P	0 - 30
2297068	Glyphosate	1.36	Spike	P	0 - 30
2297068	Sucralose	0.297	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P408154

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297068	2,4-D	22.7	Spike	P	0 - 30
2297068	2,4,5-T	3.35	Spike	P	0 - 30
2297068	Acetaminophen	7.61	Spike	P	0 - 30
2297068	Acetamiprid	0.168	Spike	P	0 - 30
2297068	Afidopyropen	7.22	Spike	P	0 - 30
2297068	Bentazon	21.7	Spike	P	0 - 30
2297068	Benzovindiflupyr	5.71	Spike	P	0 - 30
2297068	Carbamazepine	9.58	Spike	P	0 - 30
2297068	Clothianidin	2.11	Spike	P	0 - 30
2297068	Dinotefuran	1.82	Spike	P	0 - 30
2297068	Diuron	10.4	Spike	P	0 - 30
2297068	Fenuron	4.57	Spike	P	0 - 30
2297068	Fluridone	0.713	Spike	P	0 - 30
2297068	Hydrocodone	5.99	Spike	P	0 - 30
2297068	Ibuprofen	1.47	Spike	P	0 - 30
2297068	Imazapyr	21.3	Spike	P	0 - 30
2297068	Imidacloprid	6.99	Spike	P	0 - 30
2297068	Linuron	4.26	Spike	P	0 - 30
2297068	Mandestrobin	10.6	Spike	P	0 - 30
2297068	MCPP	4.45	Spike	P	0 - 30
2297068	Naproxen	11.6	Spike	P	0 - 30
2297068	Primidone	7.49	Spike	P	0 - 30
2297068	Pyraclostrobin	11.3	Spike	P	0 - 30
2297068	Silvex	2.44	Spike	P	0 - 30
2297068	Thiamethoxam	4.71	Spike	P	0 - 30
2297068	Tolfenpyrad	36.8	Spike	F	0 - 30
2297068	Triclopyr	10.1	Spike	P	0 - 30

Reference Method: SM 2120 B-2011

Batch ID: P408083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297074	Color (true)	4.60	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P408144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297164	Total Alkalinity	0.541	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P408444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297056	TDS	2.52	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P408146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297164	Fluoride	0.476	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P408283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296865	Organic Carbon	1.43	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2297064

Field Sample ID: G1TLHR0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	77.6	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	72.2	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	76.8	P	29 - 92.0
EPA 8276	PCNB	85.7	P	43 - 134

Lab Sample ID: 2297065

Field Sample ID: G1TLHR0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	58.9	P	20 - 200
EPA 8270E	Simazine-d10	107	P	73 - 135
EPA 8270E	Terbufos-d10	109	P	58 - 130

Lab Sample ID: 2297066

Field Sample ID: G1TLHR0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	69.3	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	71.4	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	76.8	P	29 - 92.0
EPA 8276	PCNB	80.1	P	43 - 134

Lab Sample ID: 2297067

Field Sample ID: G1TLHR0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	56.8	P	20 - 200
EPA 8270E	Simazine-d10	105	P	73 - 135
EPA 8270E	Terbufos-d10	105	P	58 - 130

Lab Sample ID: 2297068

Field Sample ID: G1TLHR0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	84.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	91.6	P	30 - 160
EPA 8321B	Diuron-d6	75.2	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	79.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.1	P	30 - 160
EPA 8321B	Primidone-d5	101	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2297069

Field Sample ID: G1TLHR0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	86.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	105	P	30 - 160
EPA 8321B	Diuron-d6	64.2	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2297069

Field Sample ID: G1TLHR0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Ibuprofen-d3	129	P	30 - 160
EPA 8321B	Primidone-d5	98.3	P	30 - 160
EPA 8321B	Sucralose-d6	96.5	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A109660

Included Lab Sample IDs: 2297059, 2297060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.2	100	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A109673

Included Lab Sample IDs: 2297055, 2297056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.7	102	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A109676

Included Lab Sample IDs: 2297055, 2297056

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

Reference Method: EPA 8270E

Run ID: A109687

Included Lab Sample IDs: 2297064, 2297066

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	102		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	99.8		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	101		P	80 - 120
Cis-Nonachlor	106		P	80 - 120
Cypermethrin	82.5		P	80 - 120
Dacthal	99.4		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	101		P	80 - 120
Deltamethrin	98.4		P	80 - 120
Dichlobenil	100		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	98.2		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	107		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	104		P	80 - 120
Esfenvalerate	97.5		P	80 - 120
Ethalfuralin	99.7		P	80 - 120
Fenpropathrin	103		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A109687

Included Lab Sample IDs: 2297064, 2297066

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	104		P	80 - 120
Lambda-Cyhalothrin	94.9		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	99.3		P	80 - 120
Mirex	100		P	80 - 120
Oxychlordane	106		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	92.1		P	80 - 120
Prallethrin	92.5		P	80 - 120
Tau-Fluvalinate	97.2		P	80 - 120
Tetramethrin	106		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	98.9		P	80 - 120
Trifluralin	97.6		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A109691

Included Lab Sample IDs: 2297055, 2297056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.6	94.4	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A109691

Included Lab Sample IDs: 2297055, 2297056

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A109717

Included Lab Sample IDs: 2297055, 2297056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	105	P/P	90 - 110
Sulfate	102	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A109728

Included Lab Sample IDs: 2297057, 2297058

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110
NO2NO3-N	102	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A109742

Included Lab Sample IDs: 2297068, 2297069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.2	105	P/P	60 - 160
Glufosinate	101	108	P/P	60 - 160
Glyphosate	99.3	107	P/P	60 - 160

Reference Method: EPA 8276

Run ID: A109761

Included Lab Sample IDs: 2297064, 2297066

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A109764

Included Lab Sample IDs: 2297057, 2297058

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	98.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A109770

Included Lab Sample IDs: 2297057, 2297058

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	97.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A109772

Included Lab Sample IDs: 2297068, 2297069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	103	97.2	P/P	50 - 150
2,4-D	97.2	88.7	P/P	50 - 150
2,4,5-T	104	101	P/P	50 - 150
2,4,5-T	99.7	104	P/P	50 - 150
Acetaminophen	101	88.7	P/P	60 - 160
Acetaminophen	95.0	101	P/P	60 - 160
Acetamiprid	104	94.8	P/P	50 - 150
Acetamiprid	108	104	P/P	50 - 150
Afidopyropen	108	113	P/P	50 - 150
Afidopyropen	113	127	P/P	50 - 150
Bentazon	102	105	P/P	50 - 160
Bentazon	110	102	P/P	50 - 160
Benzovindiflupyr	104	98.8	P/P	50 - 150
Benzovindiflupyr	98.8	90.3	P/P	50 - 150
Carbamazepine	103	109	P/P	60 - 150
Carbamazepine	117	103	P/P	60 - 150
Clothianidin	118	108	P/P	60 - 150
Clothianidin	127	118	P/P	60 - 150
Dinotefuran	105	109	P/P	50 - 150
Dinotefuran	118	105	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A109772

Included Lab Sample IDs: 2297068, 2297069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	106	112	P/P	60 - 160
Diuron	112	109	P/P	60 - 160
Fenuron	103	100	P/P	60 - 150
Fenuron	106	103	P/P	60 - 150
Fluridone	103	103	P/P	60 - 160
Fluridone	103	100	P/P	60 - 160
Hydrocodone	101	112	P/P	60 - 150
Hydrocodone	112	106	P/P	60 - 150
Ibuprofen	104	83.4	P/P	50 - 160
Ibuprofen	83.4	86.8	P/P	50 - 160
Imazapyr	90.4	95.5	P/P	50 - 150
Imazapyr	91.1	90.4	P/P	50 - 150
Imidacloprid	106	104	P/P	60 - 150
Imidacloprid	98.5	106	P/P	60 - 150
Linuron	89.7	99.7	P/P	60 - 150
Linuron	99.7	96.9	P/P	60 - 150
Mandestrobin	104	114	P/P	50 - 150
Mandestrobin	110	104	P/P	50 - 150
MCPP	103	93.8	P/P	50 - 150
MCPP	108	103	P/P	50 - 150
Naproxen	101	140	P/P	50 - 160
Naproxen	92.0	101	P/P	50 - 160
Primidone	109	95.2	P/P	60 - 150
Primidone	95.2	68.6	P/P	60 - 150
Pyraclostrobin	108	117	P/P	60 - 150
Pyraclostrobin	112	108	P/P	60 - 150
Silvex	106	130	P/P	50 - 150
Silvex	130	93.5	P/P	50 - 150
Thiamethoxam	106	113	P/P	50 - 150
Thiamethoxam	113	108	P/P	50 - 150
Tolfenpyrad	109	134	P/P	60 - 150
Tolfenpyrad	82.1	109	P/P	60 - 150
Triclopyr	113	113	P/P	50 - 150
Triclopyr	114	113	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A109773

Included Lab Sample IDs: 2297068, 2297069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	105	94.9	P/P	60 - 160
Endothall	86.7	96.9	P/P	60 - 160
Sucralose	84.5	88.6	P/P	60 - 160

Reference Method: EPA 8270E

Run ID: A109776

Included Lab Sample IDs: 2297065, 2297067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.8		P	80 - 120
Alachlor	99.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A109776

Included Lab Sample IDs: 2297065, 2297067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ametryn	102		P	80 - 120
Atrazine	99.2		P	80 - 120
Atrazine Desethyl	100		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	100		P	80 - 120
Bromacil	97.1		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	93.7		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	99.3		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	97.9		P	80 - 120
Cyprodinil	110		P	80 - 120
Demeton	95.9		P	80 - 120
Diazinon	98.9		P	80 - 120
Difenoconazole	100		P	80 - 120
Dimethenamid	99.7		P	80 - 120
Dimethomorph	97.3		P	80 - 120
Disulfoton	88.8		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	100		P	80 - 120
Ethion	98.9		P	80 - 120
Ethoprop	98.7		P	80 - 120
Etridiazole	98.6		P	80 - 120
Fenamiphos	96.6		P	80 - 120
Fenbuconazole	101		P	80 - 120
Fipronil	97.4		P	80 - 120
Fipronil Desulfinyl	98.7		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	97.0		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	95.3		P	80 - 120
Flutolanil	99.6		P	80 - 120
Fluxapyroxad	98.5		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	93.4		P	80 - 120
Iprodione	103		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	95.7		P	80 - 120
Metalaxyl	99.4		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	98.6		P	80 - 120
Molinate	100		P	80 - 120
Myclobutanil	100		P	80 - 120
Naled	110		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A109776

Included Lab Sample IDs: 2297065, 2297067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Napropamide	108		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	99.9		P	80 - 120
Oxyfluorfen	97.2		P	80 - 120
Parathion Ethyl	99.6		P	80 - 120
Parathion Methyl	107		P	80 - 120
Pendimethalin	106		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	98.8		P	80 - 120
Prodiamine	88.4		P	80 - 120
Prometon	99.9		P	80 - 120
Prometryn	99.0		P	80 - 120
Pronamide	93.9		P	80 - 120
Propanil	109		P	80 - 120
Propargite	96.7		P	80 - 120
Propiconazole	103		P	80 - 120
Pyraflufen Ethyl	101		P	80 - 120
Pyridaben	99.1		P	80 - 120
Pyriproxyfen	100		P	80 - 120
Simazine	106		P	80 - 120
Stirophos	99.4		P	80 - 120
Sulfentrazone	98.7		P	80 - 120
Tebuconazole	97.2		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	95.3		P	80 - 120
Thiobencarb	99.0		P	80 - 120
Triadimefon	93.3		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109846

Included Lab Sample IDs: 2297057

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109865

Included Lab Sample IDs: 2297058

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	105	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A109900

Included Lab Sample IDs: 2297057, 2297058

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	105	P/P	90 - 110

Quality Assurance Report

Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					6.69	
EPA 300.0 Rev. 2.1	Chloride	99.7	102	98.7		0.0106	
	Sulfate	99.6	100	97.2		0.386	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	94.6	94.6			0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.4	95.2	100			2.63
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	96.7	97.7			1.01
EPA 365.1 Rev. 2.0	Total-P	109	110	113			2.26
	Total-P	108	112	110			1.47
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	102	102			0.0
EPA 8270E	Acetochlor	108	108	105			2.70
	Alachlor	99.3	92.7	96.9			4.34
	Aldrin	44.5	47.4	45.8			3.35
	Alpha-BHC	89.3	90.5	92.3			1.96
	Alpha-Chlordane	75.8	70.1	70.3			0.301
	Ametryn	105	106	108			2.45
	Atrazine	98.4	92.9	93.2			0.365
	Atrazine Desethyl	71.5	69.8	69.6			0.281
	Azinphos Methyl	107	106	110			4.07
	Azoxystrobin	113	107	102			4.81
	Beta-BHC	105	103	105			1.96
	Beta-Cyfluthrin	77.4	97.6	101			3.37
	Bifenthrin	62.7	73.5	70.8			3.83
	Bromacil	93.1	82.8	90.1			8.46
	Butylate	60.5	59.5	72.2			19.2
	Caffeine	76.1	75.2	79.1			5.04
	Carbophenothion	92.1	96.6	92.7			4.13
	Carfentrazone Ethyl	106	110	109			0.322
	Chlorfenapyr	84.8	86.8	84.7			2.45
	Chlorothalonil	90.1	98.0	109			10.9
	Chlorpyrifos Ethyl	86.2	82.8	89.3			7.49
	Chlorpyrifos Methyl	96.7	90.4	95.0			5.00
	Cis-Nonachlor	70.7	69.5	68.6			1.18
	Coumaphos	77.6	94.3	97.1			2.96
	Cyanazine	133	124	140			11.4
	Cypermethrin	61.3	80.9	82.0			1.39
	Cyprodinil	112	109	107			2.36
	Dacthal	92.3	89.3	90.5			1.34
	DDD-p,p'	68.7	66.6	66.8			0.302
	DDE-p,p'	77.7	74.0	75.8			2.32
	DDT-p,p'	82.4	77.5	84.3			8.35
	Delta-BHC	110	113	119			5.45
	Deltamethrin	74.0	83.4	81.2			2.73
	Demeton	125	110	123			10.9
	Diazinon	110	113	108			4.30
	Dichlobenil	74.5	85.3	83.6			2.03
	Dicofol	73.3	72.2	74.5			3.09
	Dieldrin	79.0	68.5	73.9			4.33
	Difenoconazole	76.4	129	110			15.8
	Dimethenamid	84.1	82.1	79.9			2.71
	Dimethomorph	198	149	158			5.57
	Disulfoton	98.3	94.2	93.1			1.16
	Dithiopyr	98.5	104	98.6			5.13
	Endosulfan I	78.6	78.6	80.0			1.68
	Endosulfan II	71.8	69.3	68.7			0.911

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Endosulfan Sulfate	88.2	86.3	96.6		11.2
	Endrin	68.8	67.1	67.9		1.23
	Endrin Aldehyde	79.2	60.3	51.6		15.6
	Endrin Ketone	90.7	87.6	88.9		1.42
	EPTC	60.8	60.1	75.3		22.4
	Esfenvalerate	67.3	85.0	83.9		1.27
	Ethalfuralin	69.0	67.3	66.0		2.01
	Ethion	71.6	64.5	63.9		0.875
	Ethoprop	87.3	88.2	94.5		6.92
	Etridiazole	72.7	74.2	83.6		12.0
	Fenamiphos	90.2	84.2	91.1		7.86
	Fenbuconazole	80.9	104	103		0.859
	Fenpropathrin	72.9	80.0	80.8		0.882
	Fipronil	105	110	107		3.21
	Fipronil Desulfinyl	110	110	108		1.64
	Fipronil Sulfide	90.2	87.0	91.9		5.52
	Fipronil Sulfone	81.0	74.4	78.9		5.82
	Fluazifop-P-butyl	92.9	101	99.5		1.11
	Fludioxonil	98.4	93.6	96.1		2.64
	Flumioxazin	87.0	142	130		8.35
	Flutolanil	91.1	90.1	93.3		3.53
	Fluxapyroxad	82.6	82.0	86.0		4.79
	Fonofos	89.9	86.3	98.5		13.1
	Gamma-BHC	97.2	98.3	100		1.90
	Gamma-Chlordane	73.5	69.8	71.2		1.93
	Heptachlor	61.2	64.5	63.0		2.33
	Heptachlor Epoxide	76.5	71.5	71.6		0.135
	Hexachlorobenzene	65.8	71.3	71.3		0.0126
	Hexazinone	94.3	86.2	90.2		4.52
	Imazalil	108	100	85.0		16.3
	Iprodione	97.1	101	97.9		2.75
	Kepone	136	26.4	30.4		14.3
	Lambda-Cyhalothrin	58.0	81.8	81.7		0.0459
	Loratadine	180	134	146		8.33
	Malathion	88.3	85.9	88.1		2.61
	Metalaxyl	94.5	93.4	92.0		1.50
	Methoprene	50.2	63.1	59.7		5.54
	Methoxychlor	82.0	82.0	84.7		3.18
	Metolachlor	90.3	92.6	91.2		1.57
	Metribuzin	107	91.9	102		10.8
	Mevinphos	82.8	79.1	84.9		6.96
	MGK-264	77.5	75.1	78.8		4.82
	Mirex	47.3	51.0	51.6		1.10
	Molinate	72.8	71.1	82.2		14.5
	Myclobutanil	96.0	95.3	93.7		1.75
	Naled	86.4	87.1	98.2		11.9
	Napropamide	87.3	90.4	92.9		2.78
	Norflurazon	89.0	86.7	87.4		0.799
	Oxadiazon	77.3	85.2	82.1		3.77
	Oxychlordane	70.1	67.5	72.4		7.05
	Oxyfluorfen	114	120	115		3.81
	Parathion Ethyl	100	91.0	95.1		4.44
	Parathion Methyl	118	106	109		2.94
	Pendimethalin	113	95.0	117		20.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Permethrin	88.4	105	102			3.35
	Phenothrin	43.8	69.1	64.1			7.57
	Phenytain	34.9	41.9	39.2			6.64
	Phorate	74.6	81.9	84.9			3.67
	Piperonyl Butoxide	90.7	102	100			1.05
	Prallethrin	67.2	61.5	59.8			2.67
	Prodimine	50.4	47.7	53.8			12.0
	Prometon	98.3	94.1	88.7			5.96
	Prometryn	99.3	97.8	96.1			1.67
	Pronamide	103	96.3	92.7			3.88
	Propanil	120	116	121			4.32
	Propargite	83.4	89.4	81.4			9.40
	Propiconazole	94.7	97.9	97.7			0.228
	Pyraflufen Ethyl	97.9	103	102			1.02
	Pyridaben	84.0	94.9	101			6.42
	Pyriproxyfen	81.3	89.2	90.9			1.87
	Simazine	95.7	85.9	87.7			2.09
	Stirophos	75.1	68.9	72.6			5.26
	Sulfentrazone	63.6	77.8	80.6			3.47
	Tau-Fluvalinate	61.5	77.4	75.8			2.00
	Tebuconazole	66.0	68.2	63.3			7.38
	Terbufos	116	109	115			4.74
	Terbutylazine	90.4	90.6	85.0			6.38
	Tetramethrin	64.6	86.7	85.7			1.16
	Thiobencarb	97.9	102	100			1.81
	Trans-Nonachlor	72.1	72.7	72.9			0.369
	Triadimefon	95.7	99.0	98.0			1.01
	Triclosan Methyl	79.4	76.6	77.1			0.653
	Trifluralin	69.3	69.9	68.0			2.75
EPA 8276	Chlordane	70.3	81.4	79.5			2.31
	Toxaphene	76.9	93.2	85.9			8.12
EPA 8321B	2,4-D	88.0	79.4	99.7			22.7
	2,4,5-T	102	91.9	88.9			3.35
	Acesulfame K	95.5	70.8	69.6			1.73
	Acetaminophen	93.4	91.9	99.2			7.61
	Acetamiprid	90.0	88.6	88.4			0.168
	Afidopyropen	70.2	75.3	70.0			7.22
	AMPA	99.8	97.9	99.2			1.36
	Bentazon	104	81.0	101			21.7
	Benzovindiflupyr	82.0	80.2	85.0			5.71
	Carbamazepine	93.8	87.2	96.0			9.58
	Clothianidin	84.9	103	105			2.11
	Dinotefuran	104	103	105			1.82
	Diuron	83.3	73.3	81.4			10.4
	Endothall	85.4	98.3	94.5			3.97
	Fenuron	102	98.2	103			4.57
	Fluridone	91.6	87.6	87.0			0.713
	Glufosinate	104	106	105			1.28
	Glyphosate	104	102	104			1.36
	Hydrocodone	97.4	89.3	94.8			5.99
	Ibuprofen	108	80.0	81.2			1.47
	Imazapyr	88.5	78.1	96.7			21.3
	Imidacloprid	101	89.3	95.8			6.99
	Linuron	81.2	95.0	91.0			4.26

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Mandestrobin	93.2	91.0	101		10.6
	MCPP	96.1	95.2	99.5		4.45
	Naproxen	74.8	92.7	82.5		11.6
	Primidone	85.9	116	108		7.49
	Pyraclostrobin	81.2	90.3	101		11.3
	Silvex	92.5	99.0	101		2.44
	Sucralose	86.3	89.8	90.1		0.297
	Thiamethoxam	106	103	108		4.71
	Tolfenpyrad	58.2	46.9	68.0		36.8
	Triclopyr	108	91.5	101		10.1
SM 2120 B-2011	Color (true)	105			4.60	
SM 2320 B-2011	Total Alkalinity	98.0			0.541	
SM 2540 C-2011	TDS				2.52	
SM 4500 F-C-2011	Fluoride	100				0.476
SM 5310 B-2011	Organic Carbon	95.8	96.1	94.3		1.43

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2297055, 2297056
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2297055, 2297056
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2297055, 2297056
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2297057, 2297058
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2297057, 2297058
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2297057, 2297058
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2297057, 2297058
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2297059, 2297060
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2297064, 2297066
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2297065, 2297067
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2297064, 2297066
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2297068, 2297069
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2297055, 2297056
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2297055, 2297056
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2297055, 2297056
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2297055, 2297056
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2297055, 2297056
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2297057, 2297058

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	01/03/2022			01/04/2022 17:53	Khloe J Berg	2297055, 2297056
EPA 300.0 Rev. 2.1	01/03/2022			01/05/2022 15:52	Roberta Tatti	2297055
	01/03/2022			01/05/2022 16:04	Roberta Tatti	2297056
EPA 350.1 Rev. 2.0	01/03/2022			01/10/2022 10:55	Ping Hua	2297057
	01/03/2022			01/10/2022 11:09	Ping Hua	2297058
EPA 351.2 Rev. 2.0	01/03/2022	01/14/2022 10:30	Alexandra J Mattheus	01/14/2022 15:32	Alexandra J Mattheus	2297057
	01/03/2022	01/14/2022 10:30	Alexandra J Mattheus	01/14/2022 15:33	Alexandra J Mattheus	2297058
EPA 353.2 Rev. 2.0	01/03/2022			01/07/2022 11:47	Beverly Y. Sanders	2297058
	01/03/2022			01/07/2022 12:01	Beverly Y. Sanders	2297057
EPA 365.1 Rev. 2.0	01/03/2022	01/05/2022 15:30	Simonne.V. Calhoun	01/13/2022 13:40	Shengyu Ding	2297057
	01/03/2022	01/12/2022 15:15	Simonne.V. Calhoun	01/13/2022 15:01	Shengyu Ding	2297058
EPA 365.1 Rev. 2.0 dissolved	01/03/2022			01/04/2022 13:04	Blanca Fach	2297060
	01/03/2022			01/04/2022 13:05	Blanca Fach	2297059
EPA 8270E	01/03/2022	01/04/2022 08:00	Fe-Val Siddell	01/05/2022 15:55	Michael Poppell	2297065
	01/03/2022	01/04/2022 08:00	Fe-Val Siddell	01/05/2022 16:46	Michael Poppell	2297067
	01/03/2022	01/04/2022 08:00	Rasheda Ghaffari	01/05/2022 19:23	Vandana T. Nagar	2297064
	01/03/2022	01/04/2022 08:00	Rasheda Ghaffari	01/05/2022 19:54	Vandana T. Nagar	2297066
EPA 8276	01/03/2022	01/04/2022 08:00	Rasheda Ghaffari	01/06/2022 08:39	Arthur Maknenko	2297066
	01/03/2022	01/04/2022 08:00	Rasheda Ghaffari	01/06/2022 11:31	Arthur Maknenko	2297064
EPA 8321B	01/03/2022	01/07/2022 10:00	Juyoung Kim	01/07/2022 11:16	Juyoung Kim	2297068
	01/03/2022	01/07/2022 10:00	Juyoung Kim	01/07/2022 11:28	Juyoung Kim	2297068
	01/03/2022	01/07/2022 10:00	Juyoung Kim	01/07/2022 11:31	Juyoung Kim	2297069
	01/03/2022	01/07/2022 10:00	Juyoung Kim	01/07/2022 11:39	Juyoung Kim	2297069
	01/03/2022	01/07/2022 13:00	Hoor Shaik	01/08/2022 05:23	Juyoung Kim	2297068
	01/03/2022	01/07/2022 13:00	Hoor Shaik	01/08/2022 06:32	Juyoung Kim	2297069
SM 2120 B-2011	01/03/2022			01/04/2022 17:29	Sarah A Nixon	2297055, 2297056
SM 2320 B-2011	01/03/2022			01/05/2022 18:39	Dale L. Simmons	2297055
	01/03/2022			01/05/2022 18:53	Dale L. Simmons	2297056
SM 2540 C-2011	01/03/2022			01/07/2022 14:36	Yijie Li	2297055, 2297056
SM 2540 D-2011	01/03/2022			01/07/2022 14:36	Yijie Li	2297055, 2297056
SM 4500 F-C-2011	01/03/2022			01/05/2022 18:39	Dale L. Simmons	2297055
	01/03/2022			01/05/2022 18:53	Dale L. Simmons	2297056
SM 5310 B-2011	01/03/2022			01/08/2022 01:07	Nathaniel J Jones	2297057
	01/03/2022			01/08/2022 01:23	Nathaniel J Jones	2297058