

Chemical Analysis Report

SO-DIST-2022-07-29-02

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

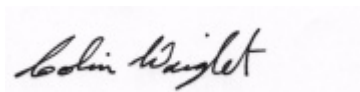
Event Description: **2022 SMP: Drains and Canals**
Request ID: **RQ-2022-07-25-33**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: William Mullen

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Certified by: Colin Wright, Program Administrator

Date Certified: 22-AUG-2022 09:45

A handwritten signature in black ink, appearing to read "Colin Wright", is shown on a light-colored 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: Metals, 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: C-139 Annex @ Deer Fence Canal Rd

Collection Date/Time: 07/28/2022 09:55

Field ID: G1SD0076

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344702	DEP SOP: NU-094-1	Color (true)	220		PCU	P417426	
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P417430	
	EPA 300.0 Rev. 2.1	Chloride	40		mg Cl/L	P417689	
		Sulfate	9.1		mg SO4/L	P417690	
	SM 2320 B-2011	Total Alkalinity	168		mg CaCO3/L	P417548	
	SM 2540 C-2011	TDS	284		mg/L	P417811	
	SM 2540 D-2011	TSS	4	I	mg/L	P417804	
	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P417551	
2344703	EPA 350.1 Rev. 2.0	Ammonia-N	0.13		mg N/L	P417760	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P417465	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P417645	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P417600	
	SM 5310 B-2011	Organic Carbon	27		mg C/L	P417699	

Sample Location: TownsendCanalatChurchRd

Collection Date/Time: 07/28/2022 11:05

Field ID: G3SD0221

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344700	DEP SOP: NU-094-1	Color (true)	150		PCU	P417426	
	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P417430	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P417689	
		Sulfate	21		mg SO4/L	P417690	
	SM 2320 B-2011	Total Alkalinity	139		mg CaCO3/L	P417548	
	SM 2540 C-2011	TDS	278		mg/L	P417811	
	SM 2540 D-2011	TSS	6	I	mg/L	P417804	
	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P417551	
2344701	EPA 350.1 Rev. 2.0	Ammonia-N	0.37		mg N/L	P417760	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.0		mg N/L	P417465	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22		mg N/L	P417645	
	EPA 365.1 Rev. 2.0	Total-P	0.53		mg P/L	P417600	
	SM 5310 B-2011	Organic Carbon	22		mg C/L	P417602	
2344713	EPA 8321B	Aldicarb	0.020	U	ug/L	P417221	
		Aldicarb Sulfone	0.0020	U	ug/L	P417221	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P417221	
		Carbaryl	0.0020	U	ug/L	P417221	
		Carbofuran	0.0020	U	ug/L	P417221	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P417221	
		Methiocarb	0.0020	U	ug/L	P417221	
		Methomyl	0.0020	U	ug/L	P417221	
		Oxamyl	0.0020	U	ug/L	P417221	
		Propoxur	0.0020	U	ug/L	P417221	
		2,4-D	0.065		ug/L	P417503	
		Acesulfame K	0.10	U	ug/L	P417397	
2344714		2,4,5-T	0.0040	U	ug/L	P417503	
		AMPA	1.1		ug/L	P417397	
		Acetaminophen	0.0080	U	ug/L	P417503	
		Acetamiprid	0.0020	U	ug/L	P417503	
		Endothall	0.25	U	ug/L	P417397	
		Glufosinate	0.10	U	ug/L	P417397	
		Glyphosate	7.9		ug/L	P417397	
		Afidopyropen	0.0020	U	ug/L	P417503	
		Bentazon	8.0E-04	U	ug/L	P417503	
		Sucralose	0.013	I	ug/L	P417397	
		Benzovindiflupyr	0.0020	U	ug/L	P417503	
		Carbamazepine	8.0E-04	U	ug/L	P417503	
		Clothianidin	0.048		ug/L	P417503	
		Dinotefuran	0.0070	I	ug/L	P417503	
		Diuron	0.018		ug/L	P417503	
		Fenuron	0.032	U	ug/L	P417503	
		Fluridone	8.0E-04	U	ug/L	P417503	
		Imazapyr	0.23		ug/L	P417503	
		Hydrocodone	0.0020	U	ug/L	P417503	

Field ID: G3SD0221

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344714	EPA 8321B	Ibuprofen	0.080	U	ug/L	P417503	MS
		Imidacloprid	0.20		ug/L	P417503	
		Linuron	0.0040	U	ug/L	P417503	
		Mandestrobin	0.0020	U	ug/L	P417503	
		MCP	0.0040	U	ug/L	P417503	
		Naproxen	0.0080	U	ug/L	P417503	
		Primidone	0.0040	U	ug/L	P417503	
		Pyraclostrobin	0.0020	U	ug/L	P417503	
		Silvex	0.0040	U	ug/L	P417503	
		Thiamethoxam	0.047		ug/L	P417503	
		Tolfenpyrad	0.0020	U	ug/L	P417503	
		Triclopyr	0.0040	U	ug/L	P417503	
2344717	EPA 8270E	Aldrin	0.66	U	ng/L	P417489	MS
		Alpha-BHC	0.10	U	ng/L	P417489	
		Alpha-Chlordane	0.20	U	ng/L	P417489	
		PCB-1016	2.0	U	ng/L	P417489	
		Beta-BHC	0.10	U	ng/L	P417489	
		PCB-1221	2.0	U	ng/L	P417489	
		Beta-Cyfluthrin	1.3	U	ng/L	P417489	
		PCB-1232	2.0	U	ng/L	P417489	
		Bifenthrin	0.51	U	ng/L	P417489	
		PCB-1242	2.0	U	ng/L	P417489	
		PCB-1248	2.0	U	ng/L	P417489	
		Chlorothalonil	1.3	U	ng/L	P417489	
		PCB-1254	2.0	U	ng/L	P417489	
		Cis-Nonachlor	0.20	U	ng/L	P417489	
		PCB-1260	2.0	U	ng/L	P417489	
		Cypermethrin	1.5	U	ng/L	P417489	
		Dacthal	0.15	U	ng/L	P417489	
		DDD-p,p'	0.26	U	ng/L	P417489	
		DDE-p,p'	0.20	U	ng/L	P417489	
		DDT-p,p'	0.26	U	ng/L	P417489	
		Delta-BHC	0.41	U	ng/L	P417489	
		Deltamethrin	1.3	U	ng/L	P417489	
		Dichlobenil	0.26	U	ng/L	P417489	
		Dicofol	1.3	U	ng/L	P417489	
		Dieldrin	0.41	U	ng/L	P417489	
		Endosulfan I	0.41	U	ng/L	P417489	
		Endosulfan II	0.41	U	ng/L	P417489	
		Endosulfan Sulfate	0.31	U	ng/L	P417489	
		Endrin	0.41	U	ng/L	P417489	
		Endrin Aldehyde	0.77	U	ng/L	P417489	
		Endrin Ketone	0.41	U	ng/L	P417489	
		Esfenvalerate	0.77	U	ng/L	P417489	
		Ethalfuralin	0.15	U	ng/L	P417489	

Field ID: G3SD0221

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344717	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P417489	
		Gamma-BHC	0.13	U	ng/L	P417489	
		Gamma-Chlordane	0.20	U	ng/L	P417489	
		Heptachlor	0.20	U	ng/L	P417489	
		Heptachlor Epoxide	0.26	U	ng/L	P417489	
		Hexachlorobenzene**	1.0	U	ng/L	P417489	
		Kepone	5.1	U	ng/L	P417489	
		Lambda-Cyhalothrin	0.77	U	ng/L	P417489	
		Methoprene	0.77	U	ng/L	P417489	
		Methoxychlor	0.31	U	ng/L	P417489	
		MGK-264	0.20	U	ng/L	P417489	
		Mirex	0.36	U	ng/L	P417489	
		Oxychlordane	0.31	U	ng/L	P417489	
		Permethrin	2.4	I	ng/L	P417489	
		Phenothrin	0.92	U	ng/L	P417489	
		Piperonyl Butoxide	0.15	U	ng/L	P417489	
		Prallethrin	2.0	U	ng/L	P417489	
		Tau-Fluvalinate	0.26	U	ng/L	P417489	MS
		Tetramethrin	0.77	U	ng/L	P417489	
		Trans-Nonachlor	0.20	U	ng/L	P417489	
		Triclosan Methyl	0.15	U	ng/L	P417489	
		Trifluralin	0.20	U	ng/L	P417489	
2344718	EPA 8276	Chlordane	2.6	U	ng/L	P417489	
	EPA 8270E	Toxaphene	15	U	ng/L	P417489	
		Oxybenzone**	9.5	U	ng/L	P417335	
		Acetochlor	0.24	U	ng/L	P417335	
		Octinoxate**	19	U	ng/L	P417335	
		Alachlor	0.24	U	ng/L	P417335	
		Avobenzone**	95	U	ng/L	P417335	
		Ametryn	0.57	U	ng/L	P417335	
		Atrazine	0.27	I	ng/L	P417335	
		PBDE-47**	3.8	U	ng/L	P417335	
		Atrazine Desethyl	1.4	U	ng/L	P417335	
		PBDE-99**	4.8	U	ng/L	P417335	
		Azinphos Methyl	1.9	U	ng/L	P417335	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P417335	
		Azoxystrobin	0.75	I	ng/L	P417335	
		Bromacil	49		ng/L	P417335	
		2-Ethylhexyl	11	U	ng/L	P417335	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P417335	
		Caffeine**	7.1	U	ng/L	P417335	
		Carbophenothion	0.19	U	ng/L	P417335	
		Carfentrazone Ethyl	0.095	U	ng/L	P417335	
		Chlorfenapyr	0.17	U	ng/L	P417335	

Field ID: G3SD0221

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344718	EPA 8270E	Chlorpyrifos Ethyl	0.24	U	ng/L	P417335	
		Chlorpyrifos Methyl	0.048	U	ng/L	P417335	
		Coumaphos	0.48	U	ng/L	P417335	
		Cyanazine	3.1	U	ng/L	P417335	
		Cyprodinil	0.77		ng/L	P417335	
		Demeton	1.4	U	ng/L	P417335	
		Diazinon	0.12	U	ng/L	P417335	
		Difenoconazole	1.5	I	ng/L	P417335	
		Dimethenamid	0.095	U	ng/L	P417335	
		Dimethomorph	0.17	U	ng/L	P417335	
		Disulfoton	0.48	U	ng/L	P417335	
		Dithiopyr	0.17	U	ng/L	P417335	
		EPTC	1.2	U	ng/L	P417335	
		Ethion	0.14	U	ng/L	P417335	
		Ethoprop	0.095	U	ng/L	P417335	
		Etridiazole	0.14	U	ng/L	P417335	
		Fenamiphos	0.48	U	ng/L	P417335	
		Fenbuconazole	1.6		ng/L	P417335	
		Fipronil	0.24	U	ng/L	P417335	
		Fipronil Desulfinyl**	0.12	U	ng/L	P417335	
		Fipronil Sulfide	0.14	U	ng/L	P417335	
		Fipronil Sulfone	0.14	U	ng/L	P417335	
		Fluazifop-P-butyl	0.095	U	ng/L	P417335	
		Fludioxonil	0.33	I	ng/L	P417335	
		Flumioxazin	1.7	U	ng/L	P417335	
		Flutolanil	0.095	U	ng/L	P417335	
		Fluxapyroxad	5.7		ng/L	P417335	
		Fonofos	0.19	U	ng/L	P417335	
		Hexazinone	28		ng/L	P417335	
		Imazalil	0.71	U	ng/L	P417335	
		Iprodione	0.57	U	ng/L	P417335	
		Loratadine**	0.095	U	ng/L	P417335	
		Malathion	0.33	U	ng/L	P417335	
		Metalaxyl	17		ng/L	P417335	
		Metolachlor	3.5		ng/L	P417335	
		Metribuzin	2.4	U	ng/L	P417335	
		Mevinphos	1.0	U	ng/L	P417335	
		Molinate	0.29	U	ng/L	P417335	
		Myclobutanil	0.24	U	ng/L	P417335	
		Naled	1.4	U	ng/L	P417335	
		Napropamide	0.38	U	ng/L	P417335	
		Norflurazon	490		ng/L	P417335	
		Oxadiazon	0.29	U	ng/L	P417335	
		Oxyfluorfen	0.14	U	ng/L	P417335	
		Parathion Ethyl	0.24	UJ	ng/L	P417335	LCS

Field ID: G3SD0221

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344718	EPA 8270E	Parathion Methyl	0.52	UJ	ng/L	P417335	LCS
		Pendimethalin	0.95	UJ	ng/L	P417335	LCS
		Phenytain**	3.3	U	ng/L	P417335	MS, RPD
		Phorate	0.50	U	ng/L	P417335	
		Prodiamine	0.17	U	ng/L	P417335	
		Prometon	0.86	U	ng/L	P417335	
		Prometryn	0.19	U	ng/L	P417335	
		Pronamide	0.14	UJ	ng/L	P417335	LCS
		Propanil	0.12	U	ng/L	P417335	
		Propargite	1.4	U	ng/L	P417335	RPD
		Propiconazole	0.48	U	ng/L	P417335	
		Pyraflufen Ethyl	0.24	U	ng/L	P417335	
		Pyridaben	0.43	U	ng/L	P417335	
		Pyriproxyfen	0.12	U	ng/L	P417335	
		Simazine	0.48	U	ng/L	P417335	
		Stiropfos	0.12	U	ng/L	P417335	
		Sulfentrazone	0.48	U	ng/L	P417335	
		Tebuconazole	0.48	U	ng/L	P417335	
		Terbufos	0.095	UJ	ng/L	P417335	LCS
		Terbutylazine	0.40	U	ng/L	P417335	
		Thiobencarb	0.57	U	ng/L	P417335	
		Triadimefon	0.24	U	ng/L	P417335	

Ref. Method and Comment:

EPA 8270E: MS accuracy for atrazine and metolachlor 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: FB

Collection Date/Time: 07/28/2022 11:30

Field ID: FB_07282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344704	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P417426	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P417430	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P417689	
		Sulfate	0.20	U	mg SO4/L	P417690	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P417548	
	SM 2540 C-2011	TDS	15	U	mg/L	P417810	
	SM 2540 D-2011	TSS	2	U	mg/L	P417803	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P417551	
2344705	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P417760	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P417786	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P417645	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P417600	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P417699	
2344715	EPA 8321B	Aldicarb	0.020	U	ug/L	P417221	
		Aldicarb Sulfone	0.0020	U	ug/L	P417221	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P417221	
		Carbaryl	0.0020	U	ug/L	P417221	
		Carbofuran	0.0020	U	ug/L	P417221	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P417221	
		Methiocarb	0.0020	U	ug/L	P417221	
		Methomyl	0.0020	U	ug/L	P417221	
		Oxamyl	0.0020	U	ug/L	P417221	
		Propoxur	0.0020	U	ug/L	P417221	
		2,4-D	0.0020	U	ug/L	P417503	
		Acesulfame K	0.10	U	ug/L	P417397	
2344716		2,4,5-T	0.0040	U	ug/L	P417503	
		AMPA	0.10	U	ug/L	P417397	
		Acetaminophen	0.0080	U	ug/L	P417503	
		Acetamiprid	0.0020	U	ug/L	P417503	
		Endothall	0.25	U	ug/L	P417397	
		Glufosinate	0.10	U	ug/L	P417397	
		Glyphosate	0.10	U	ug/L	P417397	
		Afidopyropen	0.0020	U	ug/L	P417503	
		Bentazon	8.0E-04	U	ug/L	P417503	
		Sucralose	0.010	U	ug/L	P417397	
		Benzovindiflupyr	0.0020	U	ug/L	P417503	
		Carbamazepine	8.0E-04	U	ug/L	P417503	
		Clothianidin	0.0020	U	ug/L	P417503	
		Dinotefuran	0.0020	U	ug/L	P417503	
		Diuron	0.0020	U	ug/L	P417503	
		Fenuron	0.032	U	ug/L	P417503	
		Fluridone	8.0E-04	U	ug/L	P417503	
		Imazapyr	0.0040	U	ug/L	P417503	
		Hydrocodone	0.0020	U	ug/L	P417503	

Field ID: FB_07282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344716	EPA 8321B	Ibuprofen	0.080	U	ug/L	P417503	MS
		Imidacloprid	0.0020	U	ug/L	P417503	
		Linuron	0.0040	U	ug/L	P417503	
		Mandestrobin	0.0020	U	ug/L	P417503	
		MCP	0.0040	U	ug/L	P417503	
		Naproxen	0.0080	U	ug/L	P417503	
		Primidone	0.0040	U	ug/L	P417503	
		Pyraclostrobin	0.0020	U	ug/L	P417503	
		Silvex	0.0040	U	ug/L	P417503	
		Thiamethoxam	0.0020	U	ug/L	P417503	
		Tolfenpyrad	0.0020	U	ug/L	P417503	
		Triclopyr	0.0040	U	ug/L	P417503	
2344719	EPA 8270E	Aldrin	0.70	U	ng/L	P417489	MS
		Alpha-BHC	0.11	U	ng/L	P417489	
		Alpha-Chlordane	0.21	U	ng/L	P417489	
		PCB-1016	2.1	U	ng/L	P417489	
		Beta-BHC	0.11	U	ng/L	P417489	
		PCB-1221	2.1	U	ng/L	P417489	
		Beta-Cyfluthrin	1.3	U	ng/L	P417489	
		PCB-1232	2.1	U	ng/L	P417489	
		Bifenthrin	0.54	U	ng/L	P417489	
		PCB-1242	2.1	U	ng/L	P417489	
		PCB-1248	2.1	U	ng/L	P417489	
		Chlorothalonil	1.3	U	ng/L	P417489	
		PCB-1254	2.1	U	ng/L	P417489	
		Cis-Nonachlor	0.21	U	ng/L	P417489	
		PCB-1260	2.1	U	ng/L	P417489	
		Cypermethrin	1.6	U	ng/L	P417489	
		Dacthal	0.16	U	ng/L	P417489	
		DDD-p,p'	0.27	U	ng/L	P417489	
		DDE-p,p'	0.21	U	ng/L	P417489	
		DDT-p,p'	0.27	U	ng/L	P417489	
		Delta-BHC	0.43	U	ng/L	P417489	
		Deltamethrin	1.3	U	ng/L	P417489	
		Dichlobenil	0.27	U	ng/L	P417489	
		Dicofol	1.3	U	ng/L	P417489	
		Dieldrin	0.43	U	ng/L	P417489	
		Endosulfan I	0.43	U	ng/L	P417489	
		Endosulfan II	0.43	U	ng/L	P417489	
		Endosulfan Sulfate	0.32	U	ng/L	P417489	
		Endrin	0.43	U	ng/L	P417489	
		Endrin Aldehyde	0.80	U	ng/L	P417489	
		Endrin Ketone	0.43	U	ng/L	P417489	
		Esfenvalerate	0.80	U	ng/L	P417489	
		Ethalfuralin	0.16	U	ng/L	P417489	

Field ID: FB_07282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344719	EPA 8270E	Fenpropathrin	0.27	U	ng/L	P417489	
		Gamma-BHC	0.13	U	ng/L	P417489	
		Gamma-Chlordane	0.21	U	ng/L	P417489	
		Heptachlor	0.21	U	ng/L	P417489	
		Heptachlor Epoxide	0.27	U	ng/L	P417489	
		Hexachlorobenzene**	1.1	U	ng/L	P417489	
		Kepone	5.4	U	ng/L	P417489	
		Lambda-Cyhalothrin	0.80	U	ng/L	P417489	
		Methoprene	0.80	U	ng/L	P417489	
		Methoxychlor	0.32	U	ng/L	P417489	
		MGK-264	0.21	U	ng/L	P417489	
		Mirex	0.37	U	ng/L	P417489	
		Oxychlordane	0.32	U	ng/L	P417489	
		Permethrin	1.7	U	ng/L	P417489	
		Phenothrin	0.96	U	ng/L	P417489	
		Piperonyl Butoxide	0.16	U	ng/L	P417489	
		Prallethrin	2.1	U	ng/L	P417489	
		Tau-Fluvalinate	0.27	U	ng/L	P417489	MS
		Tetramethrin	0.80	U	ng/L	P417489	
		Trans-Nonachlor	0.21	U	ng/L	P417489	
		Triclosan Methyl	0.16	U	ng/L	P417489	
		Trifluralin	0.21	U	ng/L	P417489	
2344720	EPA 8276	Chlordane	2.7	U	ng/L	P417489	
	EPA 8270E	Toxaphene	16	U	ng/L	P417489	
		Oxybenzone**	11	U	ng/L	P417335	
		Acetochlor	0.26	U	ng/L	P417335	
		Octinoxate**	21	U	ng/L	P417335	
		Alachlor	0.26	U	ng/L	P417335	
		Avobenzone**	110	U	ng/L	P417335	
		Ametryn	0.63	U	ng/L	P417335	
		Atrazine	0.26	U	ng/L	P417335	
		PBDE-47**	4.2	U	ng/L	P417335	
		Atrazine Desethyl	1.6	U	ng/L	P417335	
		PBDE-99**	5.3	U	ng/L	P417335	
		Azinphos Methyl	2.1	U	ng/L	P417335	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P417335	
		Azoxystrobin	0.53	U	ng/L	P417335	
		Bromacil	0.53	U	ng/L	P417335	
		2-Ethylhexyl	13	U	ng/L	P417335	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.42	U	ng/L	P417335	
		Caffeine**	7.9	U	ng/L	P417335	
		Carbophenothion	0.21	U	ng/L	P417335	
		Carfentrazone Ethyl	0.11	U	ng/L	P417335	
		Chlorfenapyr	0.18	U	ng/L	P417335	

Field ID: FB_07282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344720	EPA 8270E	Chlorpyrifos Ethyl	0.26	U	ng/L	P417335	
		Chlorpyrifos Methyl	0.053	U	ng/L	P417335	
		Coumaphos	0.53	U	ng/L	P417335	
		Cyanazine	3.4	U	ng/L	P417335	
		Cyprodinil	0.11	U	ng/L	P417335	
		Demeton	1.6	U	ng/L	P417335	
		Diazinon	0.13	U	ng/L	P417335	
		Difenoconazole	0.63	U	ng/L	P417335	
		Dimethenamid	0.11	U	ng/L	P417335	
		Dimethomorph	0.18	U	ng/L	P417335	
		Disulfoton	0.53	U	ng/L	P417335	
		Dithiopyr	0.18	U	ng/L	P417335	
		EPTC	1.3	U	ng/L	P417335	
		Ethion	0.16	U	ng/L	P417335	
		Ethoprop	0.11	U	ng/L	P417335	
		Etridiazole	0.16	U	ng/L	P417335	
		Fenamiphos	0.53	U	ng/L	P417335	
		Fenbuconazole	0.13	U	ng/L	P417335	
		Fipronil	0.26	U	ng/L	P417335	
		Fipronil Desulfinyl**	0.13	U	ng/L	P417335	
		Fipronil Sulfide	0.16	U	ng/L	P417335	
		Fipronil Sulfone	0.16	U	ng/L	P417335	
		Fluazifop-P-butyl	0.11	U	ng/L	P417335	
		Fludioxonil	0.13	U	ng/L	P417335	
		Flumioxazin	1.8	U	ng/L	P417335	
		Flutolanil	0.11	U	ng/L	P417335	
		Fluxapyroxad	0.11	U	ng/L	P417335	
		Fonofos	0.21	U	ng/L	P417335	
		Hexazinone	0.53	U	ng/L	P417335	
		Imazalil	0.79	U	ng/L	P417335	
		Iprodione	0.63	U	ng/L	P417335	
		Loratadine**	0.11	U	ng/L	P417335	
		Malathion	0.37	U	ng/L	P417335	
		Metalaxyl	0.79	U	ng/L	P417335	
		Metolachlor	0.37	U	ng/L	P417335	
		Metribuzin	2.6	U	ng/L	P417335	
		Mevinphos	1.1	U	ng/L	P417335	
		Molinate	0.32	U	ng/L	P417335	
		Myclobutanil	0.26	U	ng/L	P417335	
		Naled	1.6	U	ng/L	P417335	
		Napropamide	0.42	U	ng/L	P417335	
		Norflurazon	0.53	U	ng/L	P417335	
		Oxadiazon	0.32	U	ng/L	P417335	
		Oxyfluorfen	0.16	U	ng/L	P417335	
		Parathion Ethyl	0.26	UJ	ng/L	P417335	LCS

Field ID: FB_07282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344720	EPA 8270E	Parathion Methyl	0.58	UJ	ng/L	P417335	LCS
		Pendimethalin	1.1	UJ	ng/L	P417335	LCS
		Phenytain**	3.7	U	ng/L	P417335	MS, RPD
		Phorate	0.55	U	ng/L	P417335	
		Prodiamine	0.18	U	ng/L	P417335	
		Prometon	0.95	U	ng/L	P417335	
		Prometryn	0.21	U	ng/L	P417335	
		Pronamide	0.16	UJ	ng/L	P417335	LCS
		Propanil	0.13	U	ng/L	P417335	
		Propargite	1.6	U	ng/L	P417335	RPD
		Propiconazole	0.53	U	ng/L	P417335	
		Pyraflufen Ethyl	0.26	U	ng/L	P417335	
		Pyridaben	0.48	U	ng/L	P417335	
		Pyriproxyfen	0.13	U	ng/L	P417335	
		Simazine	0.53	U	ng/L	P417335	
		Stirophos	0.13	U	ng/L	P417335	
		Sulfentrazone	0.53	U	ng/L	P417335	
		Tebuconazole	0.53	U	ng/L	P417335	
		Terbufos	0.11	UJ	ng/L	P417335	LCS
		Terbutylazine	0.45	U	ng/L	P417335	
		Thiobencarb	0.63	U	ng/L	P417335	
		Triadimefon	0.26	U	ng/L	P417335	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8270E: MS accuracy for atrazine and metolachlor 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: Drainage Ditch @ CR 850

Collection Date/Time: 07/28/2022 12:15

Field ID: G1SD0061

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344712	EPA 8321B	2,4-D	0.0020	U	ug/L	P417503	
		Acesulfame K	0.10	U	ug/L	P417397	
		2,4,5-T	0.0040	U	ug/L	P417503	
		AMPA	0.25	I	ug/L	P417397	
		Acetaminophen	0.0080	U	ug/L	P417503	
		Acetamiprid	0.0020	U	ug/L	P417503	
		Endothall	0.25	U	ug/L	P417397	
		Glufosinate	0.10	U	ug/L	P417397	
		Glyphosate	0.36	I	ug/L	P417397	
		Afidopyropen	0.0020	U	ug/L	P417503	
		Bentazon	8.0E-04	U	ug/L	P417503	
		Sucralose	0.028	I	ug/L	P417397	
		Benzovindiflupyr	0.0020	U	ug/L	P417503	
		Carbamazepine	8.0E-04	U	ug/L	P417503	
		Clothianidin	0.034		ug/L	P417503	
		Dinotefuran	0.0020	U	ug/L	P417503	
		Diuron	0.0092		ug/L	P417503	
		Fenuron	0.032	U	ug/L	P417503	
		Fluridone	0.0018	I	ug/L	P417503	
		Imazapyr	0.012	I	ug/L	P417503	
		Hydrocodone	0.0020	U	ug/L	P417503	
		Ibuprofen	0.080	U	ug/L	P417503	
		Imidacloprid	0.26		ug/L	P417503	MS
		Linuron	0.0040	U	ug/L	P417503	
		Mandestrobin	0.0020	U	ug/L	P417503	
		MCPP	0.0040	U	ug/L	P417503	
		Naproxen	0.0080	U	ug/L	P417503	
		Primidone	0.0040	U	ug/L	P417503	
		Pyraclostrobin	0.0020	U	ug/L	P417503	
		Silvex	0.0040	U	ug/L	P417503	
		Thiamethoxam	0.052		ug/L	P417503	
		Tolfenpyrad	0.0020	U	ug/L	P417503	
		Triclopyr	0.0040	U	ug/L	P417503	
2344721	EPA 200.7 Rev. 4.4	Calcium	70.8		mg/L	P417476	
		Iron	370		ug/L	P417476	
		Magnesium	6.80		mg/L	P417476	
		Potassium	6.8		mg/L	P417476	
		Sodium	9.8		mg/L	P417476	
		Strontium	177		ug/L	P417476	
		Tin	3.0	U	ug/L	P417476	
		Titanium	1.7	I	ug/L	P417476	
		Vanadium	2.0	U	ug/L	P417476	
		Zinc	5.0	U	ug/L	P417476	
	EPA 200.8 Rev. 5.4	Aluminum	35		ug/L	P417476	

Field ID: G1SD0061

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344721	EPA 200.8 Rev. 5.4	Antimony	0.12	I	ug/L	P417476	
		Arsenic	0.71		ug/L	P417476	
		Barium	21.1		ug/L	P417476	
		Beryllium	0.011	I	ug/L	P417476	
		Boron	47.5		ug/L	P417476	
		Cadmium	0.020	U	ug/L	P417476	
		Chromium	0.71	I	ug/L	P417476	
		Cobalt	0.056	I	ug/L	P417476	
		Copper	0.51	I	ug/L	P417476	
		Lead	0.20	U	ug/L	P417476	
		Manganese	5.61		ug/L	P417476	
		Molybdenum	0.79		ug/L	P417476	
		Nickel	0.80	I	ug/L	P417476	
		Selenium	0.20	U	ug/L	P417476	
		Silver	0.010	U	ug/L	P417476	
	SM 2340 B-2011	Thallium	0.10	U	ug/L	P417476	
		Hardness	205		mg/L	P417476	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P417426

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417430

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417476

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417476

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417689

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417690

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417760

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417465

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417786

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417645

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417600

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

Reference Method: EPA 8270E
Batch ID: P417335

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417335

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417335

Component	Result	Code	Units
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
Metaxyl	0.75	U	ng/L
Metaxyl	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417335

Component	Result	Code	Units
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
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417335

Component	Result	Code	Units
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P417489

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417489

Component	Result	Code	Units
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
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417489

Component	Result	Code	Units
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P417489

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: P417221

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

Reference Method: EPA 8321B

Batch ID: P417397

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P417503

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: SM 2320 B-2011

Batch ID: P417548

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

Reference Method: SM 2540 C-2011

Batch ID: P417810

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011

Batch ID: P417811

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P417803

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P417804

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417551

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P417602

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

Reference Method: SM 5310 B-2011
Batch ID: P417699

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: P417426

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.1		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417476

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	109		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	105		P	85 - 115
Sodium	99.3		P	85 - 115
Strontium	106		P	85 - 115
Tin	107		P	85 - 115
Titanium	106		P	85 - 115
Vanadium	106		P	85 - 115
Zinc	108		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417476

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.3		P	85 - 115
Antimony	98.6		P	85 - 115
Arsenic	98.0		P	85 - 115
Barium	102		P	85 - 115
Beryllium	91.4		P	85 - 115
Boron	98.5		P	85 - 115
Cadmium	96.4		P	85 - 115
Chromium	97.3		P	85 - 115
Cobalt	97.9		P	85 - 115
Copper	97.1		P	85 - 115
Lead	93.5		P	85 - 115
Manganese	97.4		P	85 - 115
Molybdenum	96.0		P	85 - 115
Nickel	98.7		P	85 - 115
Selenium	98.4		P	85 - 115
Silver	96.2		P	85 - 115
Thallium	99.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417689

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	94.0		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417690

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417760

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417465

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417786

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417645

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417600

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

Reference Method: EPA 8270E
Batch ID: P417335

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.2		P	50 - 150
Acetochlor	120		P	70 - 121
Alachlor	113		P	68 - 119
Ametryn	114		P	64 - 139
Atrazine	114		P	76 - 120
Atrazine Desethyl	94.7		P	44 - 126
Avobenzone	105		P	59 - 206
Azinphos Methyl	143		P	43 - 192
Azoxystrobin	152		P	36 - 224
Bromacil	97.1		P	52 - 121
Butylate	72.2		P	28 - 91.0
Caffeine	73.7		P	50 - 134
Carbophenothion	119		P	56 - 129
Carfentrazone Ethyl	129		P	60 - 141
Chlorfenapyr	109		P	56 - 115
Chlorpyrifos Ethyl	110		P	60 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417335

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	119		P	68 - 119
Coumaphos	129		P	18 - 250
Cyanazine	112		P	61 - 250
Cyprodinil	120		P	55 - 145
Demeton	111		P	30 - 159
Diazinon	123		P	70 - 123
Difenoconazole	145		P	49 - 204
Dimethenamid	101		P	64 - 115
Dimethomorph	175		P	12 - 219
Disulfoton	113		P	44 - 125
Dithiopyr	100		P	64 - 115
EPTC	60.1		P	28 - 86.0
Ethion	75.6		P	33 - 125
Ethoprop	113		P	64 - 116
Etridiazole	75.9		P	34 - 91.0
Fenamiphos	113		P	12 - 127
Fenbuconazole	117		P	59 - 151
Fipronil	118		P	67 - 129
Fipronil Desulfinyl	123		P	65 - 127
Fipronil Sulfide	102		P	61 - 116
Fipronil Sulfone	117		P	55 - 117
Fluazifop-P-butyl	124		P	62 - 127
Fludioxonil	112		P	62 - 128
Flumioxazin	173		P	33 - 250
Flutolanil	110		P	56 - 127
Fluxapyroxad	105		P	45 - 128
Fonofos	110		P	62 - 111
Hexazinone	116		P	46 - 139
Imazalil	110		P	38 - 142
Iprodione	123		P	47 - 135
Loratadine	168		P	10 - 244
Malathion	120		P	61 - 139
Metaxyl	114		P	10 - 119
Metolachlor	111		P	65 - 118
Metribuzin	130		P	51 - 250
Mevinphos	109		P	53 - 121
Molinate	78.8		P	42 - 96.0
Myclobutanil	112		P	55 - 128
Naled	80.5		P	10 - 98.0
Napropamide	102		P	49 - 121
Norflurazon	109		P	61 - 126
Octinoxate	99.0		P	25 - 150
Oxadiazon	96.7		P	59 - 116
Oxybenzone	86.7		P	59 - 147
Oxyfluorfen	136		P	64 - 137
Parathion Ethyl	118		F	70 - 112
Parathion Methyl	150		F	76 - 133
PBDE-47	90.8		P	50 - 150
PBDE-99	87.6		P	50 - 150
Pendimethalin	123		F	52 - 117
Phenytoin	44.5		P	10 - 199
Phorate	111		P	48 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417335

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prodiamine	55.8		P	26 - 142
Prometon	84.6		P	43 - 123
Prometryn	109		P	66 - 127
Pronamide	129		F	75 - 121
Propanil	116		P	45 - 150
Propargite	75.2		P	42 - 208
Propiconazole	102		P	60 - 125
Pyraflufen Ethyl	111		P	70 - 138
Pyridaben	112		P	35 - 245
Pyriproxyfen	103		P	30 - 149
Simazine	120		P	72 - 125
Stiophos	84.2		P	29 - 164
Sulfentrazone	126		P	21 - 139
Tebuconazole	61.9		P	10 - 115
Terbufos	130		F	60 - 123
Terbuthylazine	108		P	72 - 115
Thiobencarb	99.9		P	31 - 139
Tri-o-cresyl Phosphate	99.3		P	50 - 150
Triadimefon	103		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P417489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	59.2		P	10 - 92.0
Alpha-BHC	93.9		P	75 - 107
Alpha-Chlordane	83.3		P	50 - 108
Beta-BHC	114		P	36 - 138
Beta-Cyfluthrin	132		P	20 - 161
Bifenthrin	102		P	10 - 119
Chlorothalonil	134		P	26 - 186
Cis-Nonachlor	89.1		P	42 - 119
Cypermethrin	108		P	22 - 150
Dacthal	92.1		P	72 - 119
DDD-p,p'	84.0		P	45 - 107
DDE-p,p'	86.8		P	48 - 106
DDT-p,p'	87.3		P	48 - 110
Delta-BHC	114		P	54 - 140
Deltamethrin	187		P	22 - 189
Dichlobenil	89.6		P	36 - 117
Dicofol	92.9		P	46 - 155
Dieldrin	88.2		P	54 - 110
Endosulfan I	90.8		P	59 - 105
Endosulfan II	93.1		P	51 - 118
Endosulfan Sulfate	79.0		P	57 - 121
Endrin	88.7		P	10 - 120
Endrin Aldehyde	83.0		P	34 - 118
Endrin Ketone	104		P	69 - 177
Esfenvalerate	148		P	23 - 168
Ethalfuralin	82.1		P	49 - 99.0
Fenpropathrin	90.9		P	34 - 117
Gamma-BHC	97.8		P	72 - 117

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-Chlordane	80.1		P	43 - 106
Heptachlor	75.9		P	41 - 98.0
Heptachlor Epoxide	78.0		P	57 - 106
Hexachlorobenzene	83.0		P	36 - 99.0
Kepone	33.1		P	16 - 215
Lambda-Cyhalothrin	121		P	21 - 177
Methoprene	75.0		P	10 - 119
Methoxychlor	107		P	60 - 112
MGK-264	67.2		P	26 - 122
Mirex	80.2		P	10 - 169
Oxychlordane	75.2		P	43 - 105
PCB-1016	86.3		P	48 - 112
PCB-1260	86.0		P	44 - 118
Permethrin	114		P	24 - 148
Phenothrin	82.6		P	10 - 106
Piperonyl Butoxide	128		P	10 - 139
Prallethrin	86.5		P	17 - 109
Tau-Fluvalinate	114		P	13 - 131
Tetramethrin	101		P	10 - 132
Trans-Nonachlor	68.5		P	44 - 106
Triclosan Methyl	87.8		P	59 - 109
Trifluralin	85.8		P	44 - 101

Reference Method: EPA 8276

Batch ID: P417489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	97.8		P	61 - 116
Toxaphene	99.2		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P417221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	98.3		P	40 - 150
Aldicarb	75.3		P	30 - 150
Aldicarb Sulfone	108		P	40 - 150
Aldicarb Sulfoxide	99.3		P	40 - 150
Carbaryl	91.6		P	40 - 150
Carbofuran	77.5		P	40 - 150
Methiocarb	92.6		P	40 - 150
Methomyl	96.4		P	40 - 150
Oxamyl	90.9		P	40 - 150
Propoxur	72.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417397

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	110		P	40 - 150
Endothall	80.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P417397

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glufosinate	89.2		P	40 - 150
Glyphosate	91.0		P	40 - 150
Sucralose	98.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417503

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	86.1		P	40 - 150
2,4,5-T	47.2		P	40 - 150
Acetaminophen	88.1		P	30 - 150
Acetamiprid	93.6		P	40 - 150
Afidopyropen	46.1		P	30 - 150
Bentazon	59.2		P	30 - 150
Benzovindiflupyr	41.0		P	40 - 150
Carbamazepine	62.4		P	40 - 150
Clothianidin	105		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	40.5		P	40 - 150
Fenuron	106		P	40 - 150
Fluridone	58.5		P	40 - 150
Hydrocodone	96.3		P	40 - 150
Ibuprofen	67.9		P	40 - 150
Imazapyr	130		P	40 - 150
Imidacloprid	143		P	40 - 150
Linuron	65.5		P	40 - 150
Mandestrobin	52.0		P	40 - 150
MCPP	61.8		P	40 - 150
Naproxen	43.5		P	40 - 150
Primidone	110		P	40 - 150
Pyraclostrobin	44.2		P	40 - 150
Silvex	45.1		P	40 - 150
Thiamethoxam	107		P	40 - 150
Tolfenpyrad	36.4		P	30 - 150
Triclopyr	57.5		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P417548

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P417551

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P417602

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

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P417602

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

Reference Method: SM 5310 B-2011
Batch ID: P417699

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P417476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344552	Calcium	104		P	80 - 120
2344552	Iron	102	103	P/P	80 - 120
2344552	Magnesium	101	104	P/P	80 - 120
2344552	Potassium	101	104	P/P	80 - 120
2344552	Sodium	98.5		P	80 - 120
2344552	Strontium	105	107	P/P	80 - 120
2344552	Tin	102	104	P/P	80 - 120
2344552	Titanium	102	105	P/P	80 - 120
2344552	Vanadium	104	107	P/P	80 - 120
2344552	Zinc	106	110	P/P	80 - 120
2344553	Calcium	102		P	80 - 120
2344553	Iron	102		P	80 - 120
2344553	Magnesium	97.0		P	80 - 120
2344553	Potassium	98.2		P	80 - 120
2344553	Sodium	97.6		P	80 - 120
2344553	Strontium	103		P	80 - 120
2344553	Tin	102		P	80 - 120
2344553	Titanium	101		P	80 - 120
2344553	Vanadium	102		P	80 - 120
2344553	Zinc	104		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344552	Aluminum	102	103	P/P	80 - 120
2344552	Antimony	99.8	100	P/P	80 - 120
2344552	Arsenic	98.3	99.5	P/P	80 - 120
2344552	Barium	100	101	P/P	80 - 120
2344552	Beryllium	94.1	93.0	P/P	80 - 120
2344552	Boron	105	104	P/P	80 - 120
2344552	Cadmium	96.7	98.2	P/P	80 - 120
2344552	Chromium	96.8	97.1	P/P	80 - 120
2344552	Cobalt	97.5	96.5	P/P	80 - 120
2344552	Copper	96.4	96.2	P/P	80 - 120
2344552	Lead	94.7	95.9	P/P	80 - 120
2344552	Manganese	97.8	99.0	P/P	80 - 120
2344552	Molybdenum	98.2	99.2	P/P	80 - 120
2344552	Nickel	97.5	97.2	P/P	80 - 120
2344552	Selenium	94.0	94.4	P/P	80 - 120
2344552	Silver	94.6	95.2	P/P	80 - 120
2344552	Thallium	101	103	P/P	80 - 120
2344553	Aluminum	101		P	80 - 120
2344553	Antimony	102		P	80 - 120
2344553	Arsenic	99.7		P	80 - 120
2344553	Barium	102		P	80 - 120
2344553	Beryllium	94.7		P	80 - 120
2344553	Boron	106		P	80 - 120
2344553	Cadmium	99.4		P	80 - 120
2344553	Chromium	101		P	80 - 120
2344553	Cobalt	98.2		P	80 - 120
2344553	Copper	97.1		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344553	Lead	97.4		P	80 - 120
2344553	Manganese	99.6		P	80 - 120
2344553	Molybdenum	99.5		P	80 - 120
2344553	Nickel	98.5		P	80 - 120
2344553	Selenium	95.7		P	80 - 120
2344553	Silver	96.4		P	80 - 120
2344553	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417689

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344726	Chloride	91.1		P	90 - 110
2344737	Chloride	92.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417690

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344726	Sulfate	93.2		P	90 - 110
2344737	Sulfate	94.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417760

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344563	Ammonia-N	97.4	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417465

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344528	Kjeldahl Nitrogen	108	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344734	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344738	Total-P	103	101	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P417335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344105	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	106	100	P/P	50 - 150
2344105	Acetochlor	77.1	76.0	P/P	65 - 124

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344105	Alachlor	92.8	90.7	P/P	61 - 121
2344105	Ametryn	92.3	90.0	P/P	52 - 216
2344105	Atrazine Desethyl	59.9	67.2	P/P	15 - 160
2344105	Avobenzone	93.1	96.6	P/P	59 - 206
2344105	Azinphos Methyl	118	123	P/P	40 - 292
2344105	Azoxystrobin	92.5	102	P/P	12 - 242
2344105	Bromacil	75.5	81.0	P/P	54 - 167
2344105	Butylate	57.9	61.2	P/P	14 - 94.0
2344105	Caffeine	93.3	85.8	P/P	10 - 226
2344105	Carbophenothion	97.4	95.9	P/P	49 - 122
2344105	Carfentrazone Ethyl	105	107	P/P	53 - 138
2344105	Chlorfenapyr	101	96.3	P/P	50 - 150
2344105	Chlorpyrifos Ethyl	89.2	90.2	P/P	52 - 122
2344105	Chlorpyrifos Methyl	105	101	P/P	66 - 117
2344105	Coumaphos	113	107	P/P	50 - 220
2344105	Cyanazine	88.9	87.5	P/P	43 - 245
2344105	Cyprodinil	89.5	86.4	P/P	50 - 150
2344105	Demeton	91.5	93.4	P/P	43 - 188
2344105	Diazinon	99.2	97.6	P/P	69 - 131
2344105	Difenoconazole	131	119	P/P	34 - 231
2344105	Dimethenamid	80.8	75.2	P/P	55 - 118
2344105	Dimethomorph	95.2	116	P/P	50 - 150
2344105	Disulfoton	91.7	87.0	P/P	38 - 141
2344105	Dithiopyr	82.7	86.2	P/P	42 - 116
2344105	EPTC	51.1	52.4	P/P	18 - 85.0
2344105	Ethion	103	78.3	P/P	10 - 131
2344105	Ethoprop	97.9	97.5	P/P	65 - 129
2344105	Etridiazole	59.0	57.0	P/P	50 - 150
2344105	Fenamiphos	83.3	102	P/P	31 - 137
2344105	Fenbuconazole	103	98.1	P/P	57 - 160
2344105	Fipronil	95.0	93.8	P/P	62 - 132
2344105	Fipronil Desulfinyl	102	103	P/P	57 - 131
2344105	Fipronil Sulfide	93.9	91.8	P/P	15 - 138
2344105	Fipronil Sulfone	86.4	81.6	P/P	21 - 134
2344105	Fluazifop-P-butyl	98.6	97.7	P/P	54 - 133
2344105	Fludioxonil	87.4	86.4	P/P	58 - 127
2344105	Flumioxazin	153	138	P/P	33 - 300
2344105	Flutolanil	90.1	83.6	P/P	42 - 130
2344105	Fluxapyroxad	86.1	81.5	P/P	23 - 141
2344105	Fonofos	89.2	91.8	P/P	58 - 119
2344105	Hexazinone	99.3	100	P/P	68 - 172
2344105	Imazalil	82.9	72.0	P/P	48 - 283
2344105	Iprodione	104	99.5	P/P	38 - 140
2344105	Loratadine	93.8	117	P/P	50 - 150
2344105	Malathion	100	108	P/P	40 - 137
2344105	Metalaxyl	95.3	88.5	P/P	21 - 129
2344105	Metribuzin	100	115	P/P	38 - 187
2344105	Mevinphos	98.6	100	P/P	54 - 134
2344105	Molinate	68.6	75.2	P/P	41 - 97.0
2344105	Myclobutanil	89.3	87.1	P/P	56 - 125
2344105	Naled	96.1	98.1	P/P	10 - 108
2344105	Napropamide	86.1	83.2	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344105	Norflurazon	89.8	83.2	P/P	32 - 122
2344105	Octinoxate	99.1	102	P/P	25 - 150
2344105	Oxadiazon	78.6	72.6	P/P	40 - 119
2344105	Oxybenzone	92.0	97.8	P/P	59 - 147
2344105	Oxyfluorfen	127	112	P/P	61 - 153
2344105	Parathion Ethyl	102	104	P/P	59 - 130
2344105	Parathion Methyl	129	119	P/P	65 - 155
2344105	PBDE-47	100	93.0	P/P	50 - 150
2344105	PBDE-99	99.2	90.8	P/P	50 - 150
2344105	Pendimethalin	110	104	P/P	49 - 138
2344105	Phenytol	66.2	35.0	P/F	50 - 200
2344105	Phorate	88.3	95.3	P/P	54 - 161
2344105	Prodiamine	44.4	54.8	P/P	33 - 161
2344105	Prometon	75.8	73.2	P/P	48 - 140
2344105	Prometryn	90.5	86.6	P/P	55 - 134
2344105	Pronamide	104	96.1	P/P	66 - 137
2344105	Propanil	91.1	86.4	P/P	50 - 150
2344105	Propargite	92.1	56.0	P/P	50 - 200
2344105	Propiconazole	97.4	90.4	P/P	36 - 150
2344105	Pyraflufen Ethyl	89.4	88.2	P/P	50 - 150
2344105	Pyridaben	97.8	88.2	P/P	50 - 200
2344105	Pyriproxyfen	90.9	81.5	P/P	10 - 165
2344105	Simazine	93.2	104	P/P	57 - 145
2344105	Stirophos	97.0	74.1	P/P	50 - 150
2344105	Sulfentrazone	97.4	98.9	P/P	34 - 140
2344105	Tebuconazole	79.2	51.8	P/P	10 - 127
2344105	Terbufos	110	110	P/P	59 - 138
2344105	Terbuthylazine	94.3	98.2	P/P	68 - 119
2344105	Thiobencarb	76.6	82.6	P/P	50 - 150
2344105	Tri-o-cresyl Phosphate	95.5	95.2	P/P	50 - 150
2344105	Triadimefon	83.6	85.5	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P417489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345177	Aldrin	50.0	50.8	P/P	20 - 82.0
2345177	Alpha-BHC	91.8	80.7	P/P	71 - 109
2345177	Alpha-Chlordane	70.2	73.6	P/P	42 - 106
2345177	Beta-BHC	116	111	P/P	69 - 180
2345177	Beta-Cyfluthrin	117	148	P/P	18 - 175
2345177	Bifenthrin	84.8	97.5	P/P	21 - 128
2345177	Chlorothalonil	153	141	P/P	10 - 300
2345177	Cis-Nonachlor	80.9	68.0	P/P	34 - 106
2345177	Cypermethrin	90.7	127	P/P	22 - 158
2345177	Dacthal	91.2	80.5	P/P	54 - 116
2345177	DDD-p,p'	79.8	60.2	P/P	34 - 107
2345177	DDE-p,p'	78.3	66.9	P/P	33 - 110
2345177	DDT-p,p'	78.1	73.9	P/P	50 - 122
2345177	Delta-BHC	115	108	P/P	77 - 193
2345177	Deltamethrin	157	190	P/P	10 - 195
2345177	Dichlobenil	89.5	73.2	P/P	25 - 113

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345177	Dicofol	85.0	97.3	P/P	38 - 247
2345177	Dieldrin	83.5	67.8	P/P	45 - 118
2345177	Endosulfan I	78.8	70.3	P/P	51 - 106
2345177	Endosulfan II	82.6	69.8	P/P	37 - 122
2345177	Endosulfan Sulfate	126	138	P/F	43 - 132
2345177	Endrin	82.5	72.4	P/P	29 - 101
2345177	Endrin Aldehyde	80.6	70.7	P/P	19 - 110
2345177	Endrin Ketone	97.1	87.0	P/P	60 - 140
2345177	Esfenvalerate	136	164	P/P	26 - 199
2345177	Ethalfuralin	75.1	70.3	P/P	45 - 99.0
2345177	Fenpropathrin	107	97.8	P/P	35 - 120
2345177	Gamma-BHC	94.4	89.2	P/P	63 - 128
2345177	Gamma-Chlordane	75.8	67.9	P/P	40 - 104
2345177	Heptachlor	63.0	61.1	P/P	36 - 97.0
2345177	Heptachlor Epoxide	76.1	68.0	P/P	49 - 184
2345177	Hexachlorobenzene	77.5	69.5	P/P	39 - 96.0
2345177	Kepone	29.6	25.9	P/P	10 - 217
2345177	Lambda-Cyhalothrin	105	116	P/P	21 - 193
2345177	Methoprene	66.1	64.0	P/P	20 - 106
2345177	Methoxychlor	94.7	95.2	P/P	53 - 118
2345177	MGK-264	73.1	64.4	P/P	40 - 118
2345177	Mirex	70.6	67.5	P/P	26 - 92.0
2345177	Oxychlordane	67.5	64.6	P/P	44 - 99.0
2345177	Permethrin	92.7	122	P/P	33 - 182
2345177	Phenothrin	75.4	88.6	P/P	10 - 129
2345177	Piperonyl Butoxide	129	121	P/P	10 - 211
2345177	Prallethrin	76.1	60.7	P/P	24 - 113
2345177	Tau-Fluvalinate	119	185	P/F	14 - 149
2345177	Tetramethrin	98.5	88.6	P/P	17 - 151
2345177	Trans-Nonachlor	69.4	69.8	P/P	42 - 102
2345177	Triclosan Methyl	80.7	77.7	P/P	48 - 108
2345177	Trifluralin	72.4	65.3	P/P	47 - 96.0
2345243	PCB-1016	81.9	96.3	P/P	46 - 111
2345243	PCB-1260	82.2	88.7	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P417489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345243	Chlordane	96.3	107	P/P	53 - 126
2345243	Toxaphene	99.1	113	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P417221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344102	3-Hydroxycarbofuran	105	97.8	P/P	40 - 150
2344102	Aldicarb	78.8	62.8	P/P	30 - 150
2344102	Aldicarb Sulfone	111	115	P/P	40 - 150
2344102	Aldicarb Sulfoxide	61.4	62.4	P/P	40 - 150
2344102	Carbaryl	89.8	75.5	P/P	40 - 150
2344102	Carbofuran	84.4	78.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P417221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344102	Methiocarb	104	92.9	P/P	40 - 150
2344102	Methomyl	102	89.6	P/P	40 - 150
2344102	Oxamyl	89.4	84.5	P/P	40 - 150
2344102	Propoxur	72.8	75.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417397

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344712	Acesulfame K	86.6	90.1	P/P	40 - 150
2344712	AMPA	72.3	76.7	P/P	40 - 150
2344712	Endothall	104	102	P/P	40 - 150
2344712	Glufosinate	79.0	82.5	P/P	40 - 150
2344712	Glyphosate	71.1	76.7	P/P	40 - 150
2344712	Sucralose	95.7	101	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417503

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344678	2,4-D	90.4	70.6	P/P	40 - 150
2344678	2,4,5-T	57.0	43.8	P/P	40 - 150
2344678	Acetaminophen	110	103	P/P	30 - 150
2344678	Acetamiprid	104	91.9	P/P	40 - 150
2344678	Afidopyropen	53.6	46.4	P/P	30 - 150
2344678	Bentazon	64.3	56.9	P/P	30 - 150
2344678	Benzovindiflupyr	46.5	41.8	P/P	40 - 150
2344678	Carbamazepine	74.2	59.9	P/P	40 - 150
2344678	Clothianidin	120	110	P/P	40 - 150
2344678	Dinotefuran	143	128	P/P	40 - 150
2344678	Diuron	42.7	42.7	P/P	40 - 150
2344678	Fenuron	114	111	P/P	40 - 150
2344678	Fluridone	58.3	55.9	P/P	40 - 150
2344678	Hydrocodone	117	105	P/P	40 - 150
2344678	Ibuprofen	67.1	80.3	P/P	40 - 150
2344678	Imazapyr	132	104	P/P	40 - 150
2344678	Imidacloprid	154	120	F/P	40 - 150
2344678	Linuron	73.7	63.2	P/P	40 - 150
2344678	Mandestrobin	53.6	48.4	P/P	40 - 150
2344678	MCP	67.2	54.2	P/P	40 - 150
2344678	Naproxen	66.1	57.3	P/P	40 - 150
2344678	Primidone	118	110	P/P	40 - 150
2344678	Pyraclostrobin	50.5	45.6	P/P	40 - 150
2344678	Silvex	56.7	42.7	P/P	40 - 150
2344678	Thiamethoxam	143	123	P/P	40 - 150
2344678	Tolfenpyrad	37.3	33.4	P/P	30 - 150
2344678	Triclopyr	53.4	43.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P417551

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

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P417551

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344733	Fluoride	97.2	97.2	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P417602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344697	Organic Carbon	98.0	97.8	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P417699

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344856	Organic Carbon	99.1	98.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P417426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344608	Color (true)	1.56	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344526	Turbidity	7.68	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344552	Calcium	3.87	Spike	P	0 - 20
2344552	Iron	0.820	Spike	P	0 - 20
2344552	Magnesium	1.60	Spike	P	0 - 20
2344552	Potassium	1.65	Spike	P	0 - 20
2344552	Sodium	2.44	Spike	P	0 - 20
2344552	Strontium	1.71	Spike	P	0 - 20
2344552	Tin	1.65	Spike	P	0 - 20
2344552	Titanium	2.73	Spike	P	0 - 20
2344552	Vanadium	3.32	Spike	P	0 - 20
2344552	Zinc	3.35	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344552	Aluminum	0.807	Spike	P	0 - 20
2344552	Antimony	0.282	Spike	P	0 - 20
2344552	Arsenic	1.18	Spike	P	0 - 20
2344552	Barium	0.750	Spike	P	0 - 20
2344552	Beryllium	1.18	Spike	P	0 - 20
2344552	Boron	0.453	Spike	P	0 - 20
2344552	Cadmium	1.53	Spike	P	0 - 20
2344552	Chromium	0.360	Spike	P	0 - 20
2344552	Cobalt	1.03	Spike	P	0 - 20
2344552	Copper	0.219	Spike	P	0 - 20
2344552	Lead	1.24	Spike	P	0 - 20
2344552	Manganese	1.01	Spike	P	0 - 20
2344552	Molybdenum	0.981	Spike	P	0 - 20
2344552	Nickel	0.245	Spike	P	0 - 20
2344552	Selenium	0.446	Spike	P	0 - 20
2344552	Silver	0.644	Spike	P	0 - 20
2344552	Thallium	2.38	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344726	Chloride	0.820	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417690

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344726	Sulfate	0.735	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417760

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344563	Ammonia-N	3.17	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417465

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344528	Kjeldahl Nitrogen	0.422	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344531	Kjeldahl Nitrogen	1.97	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344734	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344738	Total-P	1.18	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P417335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344105	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	5.11	Spike	P	0 - 30
2344105	Acetochlor	0.638	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P417335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344105	Alachlor	2.33	Spike	P	0 - 27
2344105	Ametryn	2.56	Spike	P	0 - 34
2344105	Atrazine	1.10	Spike	P	0 - 41
2344105	Atrazine Desethyl	9.17	Spike	P	0 - 38
2344105	Avobenzone	3.70	Spike	P	0 - 30
2344105	Azinphos Methyl	3.57	Spike	P	0 - 62
2344105	Azoxystrobin	5.45	Spike	P	0 - 32
2344105	Bromacil	7.03	Spike	P	0 - 30
2344105	Butylate	5.60	Spike	P	0 - 59
2344105	Caffeine	8.20	Spike	P	0 - 60
2344105	Carbophenothion	1.55	Spike	P	0 - 25
2344105	Carfentrazone Ethyl	2.03	Spike	P	0 - 26
2344105	Chlorfenapyr	4.46	Spike	P	0 - 30
2344105	Chlorpyrifos Ethyl	1.20	Spike	P	0 - 27
2344105	Chlorpyrifos Methyl	3.37	Spike	P	0 - 26
2344105	Coumaphos	5.35	Spike	P	0 - 30
2344105	Cyanazine	1.57	Spike	P	0 - 58
2344105	Cyprodinil	3.31	Spike	P	0 - 30
2344105	Demeton	2.01	Spike	P	0 - 25
2344105	Diazinon	1.67	Spike	P	0 - 29
2344105	Difenoconazole	9.37	Spike	P	0 - 25
2344105	Dimethenamid	6.69	Spike	P	0 - 30
2344105	Dimethomorph	20.1	Spike	P	0 - 30
2344105	Disulfoton	5.28	Spike	P	0 - 33
2344105	Dithiopyr	4.16	Spike	P	0 - 22
2344105	EPTC	2.54	Spike	P	0 - 38
2344105	Ethion	27.1	Spike	P	0 - 79
2344105	Ethoprop	0.370	Spike	P	0 - 23
2344105	Etridiazole	3.54	Spike	P	0 - 30
2344105	Fenamiphos	19.9	Spike	P	0 - 58
2344105	Fenbuconazole	4.72	Spike	P	0 - 37
2344105	Fipronil	1.37	Spike	P	0 - 33
2344105	Fipronil Desulfinyl	0.325	Spike	P	0 - 26
2344105	Fipronil Sulfide	2.33	Spike	P	0 - 37
2344105	Fipronil Sulfone	5.69	Spike	P	0 - 50
2344105	Fluazifop-P-butyl	0.919	Spike	P	0 - 24
2344105	Fludioxonil	1.23	Spike	P	0 - 26
2344105	Flumioxazin	9.75	Spike	P	0 - 37
2344105	Flutolanil	6.51	Spike	P	0 - 26
2344105	Fluxapyroxad	4.63	Spike	P	0 - 34
2344105	Fonofos	2.94	Spike	P	0 - 27
2344105	Hexazinone	1.14	Spike	P	0 - 36
2344105	Imazalil	14.1	Spike	P	0 - 65
2344105	Iprodione	4.50	Spike	P	0 - 33
2344105	Loratadine	21.8	Spike	P	0 - 30
2344105	Malathion	7.10	Spike	P	0 - 44
2344105	Metalaxyl	7.41	Spike	P	0 - 38
2344105	Metolachlor	2.17	Spike	P	0 - 36
2344105	Metribuzin	13.6	Spike	P	0 - 63
2344105	Mevinphos	1.60	Spike	P	0 - 26
2344105	Molinate	9.20	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P417335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344105	Myclobutanil	2.51	Spike	P	0 - 21
2344105	Naled	1.99	Spike	P	0 - 26
2344105	Napropamide	3.44	Spike	P	0 - 30
2344105	Norflurazon	7.30	Spike	P	0 - 24
2344105	Octinoxate	2.84	Spike	P	0 - 30
2344105	Oxadiazon	7.94	Spike	P	0 - 27
2344105	Oxybenzone	6.08	Spike	P	0 - 30
2344105	Oxyfluorfen	12.1	Spike	P	0 - 24
2344105	Parathion Ethyl	2.35	Spike	P	0 - 28
2344105	Parathion Methyl	8.00	Spike	P	0 - 27
2344105	PBDE-47	7.52	Spike	P	0 - 30
2344105	PBDE-99	8.75	Spike	P	0 - 30
2344105	Pendimethalin	5.62	Spike	P	0 - 31
2344105	Phenytoin	61.6	Spike	F	0 - 30
2344105	Phorate	7.58	Spike	P	0 - 27
2344105	Prodiamine	21.0	Spike	P	0 - 52
2344105	Prometon	3.56	Spike	P	0 - 31
2344105	Prometryn	4.40	Spike	P	0 - 28
2344105	Pronamide	7.61	Spike	P	0 - 26
2344105	Propanil	5.20	Spike	P	0 - 30
2344105	Propargite	48.8	Spike	F	0 - 30
2344105	Propiconazole	7.45	Spike	P	0 - 31
2344105	Pyraflufen Ethyl	1.32	Spike	P	0 - 30
2344105	Pyridaben	10.3	Spike	P	0 - 30
2344105	Pyriproxyfen	10.9	Spike	P	0 - 50
2344105	Simazine	10.5	Spike	P	0 - 29
2344105	Stirophos	26.8	Spike	P	0 - 30
2344105	Sulfentrazone	1.53	Spike	P	0 - 33
2344105	Tebuconazole	34.1	Spike	P	0 - 44
2344105	Terbufos	0.424	Spike	P	0 - 29
2344105	Terbutylazine	4.01	Spike	P	0 - 27
2344105	Thiobencarb	7.51	Spike	P	0 - 30
2344105	Tri-o-cresyl Phosphate	0.324	Spike	P	0 - 30
2344105	Triadimefon	2.22	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P417489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345177	Aldrin	1.75	Spike	P	0 - 41
2345177	Alpha-BHC	12.9	Spike	P	0 - 25
2345177	Alpha-Chlordane	4.76	Spike	P	0 - 33
2345177	Beta-BHC	3.96	Spike	P	0 - 36
2345177	Beta-Cyfluthrin	23.4	Spike	P	0 - 42
2345177	Bifenthrin	14.0	Spike	P	0 - 53
2345177	Chlorothalonil	8.35	Spike	P	0 - 71
2345177	Cis-Nonachlor	17.2	Spike	P	0 - 29
2345177	Cypermethrin	33.4	Spike	P	0 - 40
2345177	Dacthal	12.4	Spike	P	0 - 26
2345177	DDD-p,p'	28.0	Spike	P	0 - 39

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P417489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345177	DDE-p,p'	15.7	Spike	P	0 - 33
2345177	DDT-p,p'	5.52	Spike	P	0 - 40
2345177	Delta-BHC	6.52	Spike	P	0 - 37
2345177	Deltamethrin	19.0	Spike	P	0 - 100
2345177	Dichlobenil	20.0	Spike	P	0 - 40
2345177	Dicofol	13.5	Spike	P	0 - 31
2345177	Dieldrin	20.7	Spike	P	0 - 27
2345177	Endosulfan I	11.5	Spike	P	0 - 23
2345177	Endosulfan II	16.8	Spike	P	0 - 28
2345177	Endosulfan Sulfate	9.34	Spike	P	0 - 38
2345177	Endrin	12.9	Spike	P	0 - 63
2345177	Endrin Aldehyde	13.1	Spike	P	0 - 60
2345177	Endrin Ketone	11.0	Spike	P	0 - 37
2345177	Esfenvalerate	18.3	Spike	P	0 - 52
2345177	Ethalfuralin	6.57	Spike	P	0 - 23
2345177	Fenprothrin	8.53	Spike	P	0 - 32
2345177	Gamma-BHC	5.72	Spike	P	0 - 17
2345177	Gamma-Chlordane	11.0	Spike	P	0 - 40
2345177	Heptachlor	3.06	Spike	P	0 - 29
2345177	Heptachlor Epoxide	11.3	Spike	P	0 - 25
2345177	Hexachlorobenzene	10.8	Spike	P	0 - 36
2345177	Kepone	13.3	Spike	P	0 - 93
2345177	Lambda-Cyhalothrin	10.4	Spike	P	0 - 55
2345177	Methoprene	3.23	Spike	P	0 - 53
2345177	Methoxychlor	0.492	Spike	P	0 - 29
2345177	MGK-264	12.7	Spike	P	0 - 35
2345177	Mirex	4.40	Spike	P	0 - 46
2345177	Oxychlordane	4.34	Spike	P	0 - 29
2345177	Permethrin	27.3	Spike	P	0 - 44
2345177	Phenothrin	16.1	Spike	P	0 - 56
2345177	Piperonyl Butoxide	5.77	Spike	P	0 - 100
2345177	Prallethrin	22.6	Spike	P	0 - 42
2345177	Tau-Fluvalinate	43.5	Spike	P	0 - 54
2345177	Tetramethrin	10.6	Spike	P	0 - 51
2345177	Trans-Nonachlor	0.671	Spike	P	0 - 37
2345177	Triclosan Methyl	3.78	Spike	P	0 - 31
2345177	Trifluralin	10.2	Spike	P	0 - 30
2345243	PCB-1016	16.2	Spike	P	0 - 32
2345243	PCB-1260	7.65	Spike	P	0 - 31

Reference Method: EPA 8276
Batch ID: P417489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345243	Chlordane	10.3	Spike	P	0 - 25
2345243	Toxaphene	13.0	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P417221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344102	3-Hydroxycarbofuran	7.43	Spike	P	0 - 30
2344102	Aldicarb	22.5	Spike	P	0 - 30
2344102	Aldicarb Sulfone	2.86	Spike	P	0 - 30
2344102	Aldicarb Sulfoxide	1.50	Spike	P	0 - 30
2344102	Carbaryl	17.3	Spike	P	0 - 30
2344102	Carbofuran	6.80	Spike	P	0 - 30
2344102	Methiocarb	11.3	Spike	P	0 - 30
2344102	Methomyl	13.1	Spike	P	0 - 30
2344102	Oxamyl	5.67	Spike	P	0 - 30
2344102	Propoxur	4.27	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P417397

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344712	Acesulfame K	3.90	Spike	P	0 - 30
2344712	AMPA	5.19	Spike	P	0 - 30
2344712	Endothall	1.77	Spike	P	0 - 30
2344712	Glufosinate	4.28	Spike	P	0 - 30
2344712	Glyphosate	6.37	Spike	P	0 - 30
2344712	Sucralose	5.61	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P417503

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344678	2,4-D	24.6	Spike	P	0 - 30
2344678	2,4,5-T	26.2	Spike	P	0 - 30
2344678	Acetaminophen	6.72	Spike	P	0 - 30
2344678	Acetamiprid	12.4	Spike	P	0 - 30
2344678	Afidopyropen	14.4	Spike	P	0 - 30
2344678	Bentazon	12.2	Spike	P	0 - 30
2344678	Benzovindiflupyr	10.6	Spike	P	0 - 30
2344678	Carbamazepine	21.3	Spike	P	0 - 30
2344678	Clothianidin	8.80	Spike	P	0 - 30
2344678	Dinotefuran	11.3	Spike	P	0 - 30
2344678	Diuron	0.0307	Spike	P	0 - 30
2344678	Fenuron	3.25	Spike	P	0 - 30
2344678	Fluridone	4.24	Spike	P	0 - 30
2344678	Hydrocodone	10.6	Spike	P	0 - 30
2344678	Ibuprofen	17.9	Spike	P	0 - 30
2344678	Imazapyr	23.7	Spike	P	0 - 30
2344678	Imidacloprid	25.0	Spike	P	0 - 30
2344678	Linuron	15.3	Spike	P	0 - 30
2344678	Mandestrobin	10.2	Spike	P	0 - 30
2344678	MCPP	21.4	Spike	P	0 - 30
2344678	Naproxen	14.3	Spike	P	0 - 30
2344678	Primidone	7.03	Spike	P	0 - 30
2344678	Pyraclostrobin	10.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P417503

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344678	Silvex	28.2	Spike	P	0 - 30
2344678	Thiamethoxam	15.2	Spike	P	0 - 30
2344678	Tolfenpyrad	11.0	Spike	P	0 - 30
2344678	Triclopyr	19.8	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P417548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344733	Total Alkalinity	0.601	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P417810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344433	TDS	4.20	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P417811

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344524	TDS	5.26	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P417804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344524	TSS	3.92	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P417551

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344733	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P417602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344697	Organic Carbon	0.0785	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P417699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344856	Organic Carbon	0.224	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2344712
Field Sample ID: G1SD0061

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	105	P	30 - 160
EPA 8321B	Diuron-d6	85.3	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	98.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.1	P	30 - 160
EPA 8321B	Primidone-d5	132	P	30 - 160
EPA 8321B	Sucralose-d6	97.8	P	30 - 160

Lab Sample ID: 2344713
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	76.7	P	30 - 160

Lab Sample ID: 2344714
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	97.2	P	30 - 160
EPA 8321B	Diuron-d6	82.5	P	30 - 160
EPA 8321B	Endothall-d6	67.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	87.6	P	30 - 160
EPA 8321B	Primidone-d5	113	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160

Lab Sample ID: 2344715
Field Sample ID: FB_07282022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	87.5	P	30 - 160

Lab Sample ID: 2344716
Field Sample ID: FB_07282022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.2	P	30 - 160
EPA 8321B	Diuron-d6	89.5	P	30 - 160
EPA 8321B	Endothall-d6	75.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.7	P	30 - 160
EPA 8321B	Primidone-d5	92.6	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2344717
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	81.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	101	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	66.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	45.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	80.5	P	30 - 101
EPA 8276	PCNB	88.1	P	48 - 121

Lab Sample ID: 2344718
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	70.0	P	20 - 200
EPA 8270E	Simazine-d10	107	P	71 - 140
EPA 8270E	Terbufos-d10	113	P	62 - 131
EPA 8270E	Terphenyl-d14	97.7	P	52 - 141

Lab Sample ID: 2344719
Field Sample ID: FB_07282022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	84.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	104	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	82.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	70.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	97.2	P	30 - 101
EPA 8276	PCNB	88.8	P	48 - 121

Lab Sample ID: 2344720
Field Sample ID: FB_07282022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	92.3	P	20 - 200
EPA 8270E	Simazine-d10	115	P	71 - 140
EPA 8270E	Terbufos-d10	97.4	P	62 - 131
EPA 8270E	Terphenyl-d14	105	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A113805

Included Lab Sample IDs: 2344700, 2344702, 2344704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	101	P/P	90 - 110
Color (true)	105	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113809

Included Lab Sample IDs: 2344700, 2344702, 2344704

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

Reference Method: EPA 8321B

Run ID: A113832

Included Lab Sample IDs: 2344712, 2344714, 2344716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	100	102	P/P	60 - 160
AMPA	102	106	P/P	60 - 160
Endothall	67.0	75.5	P/P	60 - 160
Endothall	83.2	67.0	P/P	60 - 160
Glufosinate	102	74.9	P/P	60 - 160
Glufosinate	74.9	93.8	P/P	60 - 160
Glyphosate	101	110	P/P	60 - 160
Glyphosate	98.2	101	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113833

Included Lab Sample IDs: 2344712, 2344714, 2344716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	103	97.8	P/P	60 - 160
Acesulfame K	97.8	98.3	P/P	60 - 160
Sucralose	97.7	99.2	P/P	60 - 160
Sucralose	99.2	100	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113866

Included Lab Sample IDs: 2344721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.1	97.9	P/P	90 - 110
Antimony	97.7	98.6	P/P	90 - 110
Arsenic	98.0	97.9	P/P	90 - 110
Barium	97.7	97.9	P/P	90 - 110
Beryllium	93.3	93.9	P/P	90 - 110
Boron	99.7	101	P/P	90 - 110
Cadmium	99.0	99.8	P/P	90 - 110
Chromium	97.8	98.5	P/P	90 - 110
Cobalt	98.1	97.7	P/P	90 - 110
Copper	97.6	97.1	P/P	90 - 110
Lead	93.4	93.8	P/P	90 - 110
Manganese	99.6	98.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113866

Included Lab Sample IDs: 2344721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Molybdenum	97.0	96.4	P/P	90 - 110
Nickel	97.5	97.1	P/P	90 - 110
Selenium	96.7	95.8	P/P	90 - 110
Silver	98.7	98.7	P/P	90 - 110
Thallium	99.6	99.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A113869

Included Lab Sample IDs: 2344700, 2344702, 2344704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	97.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113869

Included Lab Sample IDs: 2344700, 2344702, 2344704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113874

Included Lab Sample IDs: 2344713, 2344715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	105	88.1	P/P	60 - 150
Aldicarb	113	87.9	P/P	60 - 150
Aldicarb Sulfone	108	91.1	P/P	50 - 150
Aldicarb Sulfoxide	103	97.4	P/P	50 - 150
Carbaryl	98.9	103	P/P	60 - 150
Carbofuran	97.9	93.9	P/P	50 - 150
Methiocarb	94.3	94.4	P/P	50 - 150
Methomyl	105	102	P/P	50 - 150
Oxamyl	100	90.0	P/P	50 - 150
Propoxur	101	98.5	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113880

Included Lab Sample IDs: 2344701, 2344703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.3	97.8	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A113884

Included Lab Sample IDs: 2344701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.0	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113896

Included Lab Sample IDs: 2344701, 2344703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	97.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113902

Included Lab Sample IDs: 2344700, 2344702, 2344704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	92.9	94.4	P/P	90 - 110
Sulfate	95.0	95.5	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113903

Included Lab Sample IDs: 2344721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	104	P/P	90 - 110
Iron	99.0	100	P/P	90 - 110
Magnesium	100	101	P/P	90 - 110
Potassium	105	104	P/P	90 - 110
Sodium	101	102	P/P	90 - 110
Strontium	102	99.2	P/P	90 - 110
Titanium	99.7	98.9	P/P	90 - 110
Vanadium	101	98.7	P/P	90 - 110
Zinc	102	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113906

Included Lab Sample IDs: 2344701, 2344703, 2344705

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113911

Included Lab Sample IDs: 2344705

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

Reference Method: EPA 8321B

Run ID: A113922

Included Lab Sample IDs: 2344712, 2344714, 2344716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	109	102	P/P	50 - 150
2,4,5-T	108	108	P/P	50 - 150
Acetaminophen	99.9	96.9	P/P	60 - 160
Acetamiprid	101	97.8	P/P	50 - 150
Afidopyropen	104	117	P/P	50 - 150
Bentazon	107	92.7	P/P	50 - 160
Benzovindiflupyr	91.2	97.1	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A113922

Included Lab Sample IDs: 2344712, 2344714, 2344716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbamazepine	106	108	P/P	60 - 150
Clothianidin	105	96.4	P/P	60 - 150
Dinotefuran	105	97.9	P/P	50 - 150
Diuron	118	104	P/P	60 - 160
Fenuron	99.9	97.5	P/P	60 - 150
Fluridone	109	107	P/P	60 - 160
Hydrocodone	102	101	P/P	60 - 150
Ibuprofen	90.7	99.6	P/P	50 - 160
Imazapyr	96.5	106	P/P	50 - 150
Imidacloprid	90.7	93.1	P/P	60 - 150
Linuron	95.6	106	P/P	60 - 150
Mandestrobin	103	106	P/P	50 - 150
MCPP	101	103	P/P	50 - 150
Naproxen	92.0	74.3	P/P	50 - 160
Primidone	109	104	P/P	60 - 150
Pyraclostrobin	103	103	P/P	60 - 150
Silvex	103	94.1	P/P	50 - 150
Thiamethoxam	101	104	P/P	50 - 150
Tolfenpyrad	132	130	P/P	60 - 150
Triclopyr	94.0	84.1	P/P	50 - 150

Reference Method: SM 5310 B-2011

Run ID: A113927

Included Lab Sample IDs: 2344703, 2344705

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113942

Included Lab Sample IDs: 2344721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	97.6	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113946

Included Lab Sample IDs: 2344717, 2344719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.5		P	80 - 120
Alpha-BHC	104		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	98.6		P	80 - 120
Beta-Cyfluthrin	110		P	80 - 120
Bifenthrin	113		P	80 - 120
Chlorothalonil	105		P	80 - 120
Cis-Nonachlor	106		P	80 - 120
Cypermethrin	98.7		P	80 - 120
Dacthal	105		P	80 - 120
DDD-p,p'	117		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113946

Included Lab Sample IDs: 2344717, 2344719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDE-p,p'	102		P	80 - 120
DDT-p,p'	98.6		P	80 - 120
Delta-BHC	96.1		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	99.2		P	80 - 120
Endosulfan I	105		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	99.8		P	80 - 120
Endrin Ketone	117		P	80 - 120
Esfenvalerate	117		P	80 - 120
Ethalfuralin	103		P	80 - 120
Fenpropathrin	111		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	99.6		P	80 - 120
Heptachlor	97.9		P	80 - 120
Heptachlor Epoxide	109		P	80 - 120
Hexachlorobenzene	109		P	80 - 120
Kepone	111		P	80 - 120
Lambda-Cyhalothrin	117		P	80 - 120
Methoprene	94.6		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	99.8		P	80 - 120
Mirex	107		P	80 - 120
Oxychlordane	110		P	80 - 120
Permethrin	108		P	80 - 120
Phenothrin	98.4		P	80 - 120
Piperonyl Butoxide	92.9		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	101		P	80 - 120
Tetramethrin	116		P	80 - 120
Trans-Nonachlor	98.8		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	96.4		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113949

Included Lab Sample IDs: 2344717, 2344719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.9		P	80 - 120
PCB-1260	98.6		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113960

Included Lab Sample IDs: 2344701, 2344703, 2344705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113960

Included Lab Sample IDs: 2344701, 2344703, 2344705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	98.7	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A113969

Included Lab Sample IDs: 2344717, 2344719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	103		P	80 - 120
Toxaphene	102		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113983

Included Lab Sample IDs: 2344718, 2344720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.6		P	80 - 120
Avobenzone	97.4		P	80 - 120
Octinoxate	95.8		P	80 - 120
Oxybenzone	91.2		P	80 - 120
PBDE-47	96.2		P	80 - 120
PBDE-99	98.7		P	80 - 120
Tri-o-cresyl Phosphate	96.9		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114019

Included Lab Sample IDs: 2344720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.3		P	80 - 120
Alachlor	97.5		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine Desethyl	99.4		P	80 - 120
Azinphos Methyl	95.6		P	80 - 120
Azoxystrobin	98.6		P	80 - 120
Bromacil	96.8		P	80 - 120
Butylate	105		P	80 - 120
Caffeine	95.9		P	80 - 120
Carbophenothion	99.6		P	80 - 120
Carfentrazone Ethyl	99.0		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	98.2		P	80 - 120
Chlorpyrifos Methyl	103		P	80 - 120
Coumaphos	99.2		P	80 - 120
Cyanazine	94.7		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	98.6		P	80 - 120
Difenoconazole	101		P	80 - 120
Dimethenamid	96.7		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	94.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114019
Included Lab Sample IDs: 2344720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dithiopyr	96.5		P	80 - 120
EPTC	99.6		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	98.8		P	80 - 120
Etridiazole	98.3		P	80 - 120
Fenamiphos	102		P	80 - 120
Fenbuconazole	99.5		P	80 - 120
Fipronil	99.1		P	80 - 120
Fipronil Desulfinyl	97.4		P	80 - 120
Fipronil Sulfide	99.9		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	100		P	80 - 120
Fludioxonil	90.4		P	80 - 120
Flumioxazin	103		P	80 - 120
Flutolanil	99.9		P	80 - 120
Fluxapyroxad	96.5		P	80 - 120
Fonofos	98.9		P	80 - 120
Hexazinone	94.9		P	80 - 120
Imazalil	99.9		P	80 - 120
Iprodione	98.2		P	80 - 120
Loratadine	105		P	80 - 120
Malathion	98.0		P	80 - 120
Metalaxyl	95.4		P	80 - 120
Metribuzin	106		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	97.0		P	80 - 120
Naled	102		P	80 - 120
Napropamide	98.7		P	80 - 120
Norflurazon	99.7		P	80 - 120
Oxadiazon	96.2		P	80 - 120
Oxyfluorfen	95.4		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	99.2		P	80 - 120
Pendimethalin	98.6		P	80 - 120
Phenytol	93.9		P	80 - 120
Phorate	99.4		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	96.6		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	89.9		P	80 - 120
Propanil	97.4		P	80 - 120
Propargite	96.3		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyridaben	97.2		P	80 - 120
Pyriproxyfen	95.3		P	80 - 120
Simazine	97.4		P	80 - 120
Stirophos	107		P	80 - 120
Sulfentrazone	97.4		P	80 - 120
Tebuconazole	95.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A114019
 Included Lab Sample IDs: 2344720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbufos	96.8		P	80 - 120
Terbutylazine	99.9		P	80 - 120
Thiobencarb	96.8		P	80 - 120
Triadimefon	98.4		P	80 - 120

Reference Method: EPA 8270E
 Run ID: A114111
 Included Lab Sample IDs: 2344718, 2344720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.7		P	80 - 120
Alachlor	93.8		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	99.6		P	80 - 120
Atrazine Desethyl	100		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Azoxystrobin	99.9		P	80 - 120
Bromacil	96.2		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	111		P	80 - 120
Carbophenothion	103		P	80 - 120
Carfentrazone Ethyl	98.8		P	80 - 120
Chlorfenapyr	105		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	99.7		P	80 - 120
Cyanazine	82.8		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	98.1		P	80 - 120
Diazinon	96.0		P	80 - 120
Difenoconazole	103		P	80 - 120
Dimethenamid	99.5		P	80 - 120
Dimethomorph	87.8		P	80 - 120
Disulfoton	97.1		P	80 - 120
Dithiopyr	98.7		P	80 - 120
EPTC	99.9		P	80 - 120
Ethion	98.1		P	80 - 120
Ethoprop	99.6		P	80 - 120
Etridiazole	97.9		P	80 - 120
Fenamiphos	94.9		P	80 - 120
Fenbuconazole	97.1		P	80 - 120
Fipronil	93.2		P	80 - 120
Fipronil Desulfinyl	97.3		P	80 - 120
Fipronil Sulfide	96.5		P	80 - 120
Fipronil Sulfone	88.1		P	80 - 120
Fluazifop-P-butyl	104		P	80 - 120
Fludioxonil	98.1		P	80 - 120
Flumioxazin	91.3		P	80 - 120
Flutolanil	97.5		P	80 - 120
Fluxapyroxad	95.7		P	80 - 120
Fonofos	98.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A114111

Included Lab Sample IDs: 2344718, 2344720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexazinone	91.1		P	80 - 120
Imazalil	97.5		P	80 - 120
Iprodione	88.4		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	99.8		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	90.3		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	98.1		P	80 - 120
Myclobutanil	100		P	80 - 120
Naled	99.5		P	80 - 120
Napropamide	99.5		P	80 - 120
Oxadiazon	100		P	80 - 120
Oxyfluorfen	108		P	80 - 120
Parathion Ethyl	98.3		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	99.8		P	80 - 120
Phenytoin	99.1		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	97.3		P	80 - 120
Prometryn	98.4		P	80 - 120
Pronamide	97.3		P	80 - 120
Propanil	107		P	80 - 120
Propargite	95.6		P	80 - 120
Propiconazole	94.5		P	80 - 120
Pyraflufen Ethyl	90.4		P	80 - 120
Pyridaben	95.5		P	80 - 120
Pyriproxyfen	96.8		P	80 - 120
Simazine	98.7		P	80 - 120
Stirophos	104		P	80 - 120
Sulfentrazone	96.1		P	80 - 120
Tebuconazole	95.4		P	80 - 120
Terbufos	100		P	80 - 120
Terbuthylazine	99.7		P	80 - 120
Thiobencarb	97.6		P	80 - 120
Triadimefon	99.3		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114113

Included Lab Sample IDs: 2344718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Norflurazon	95.0		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114118

Included Lab Sample IDs: 2344705

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

Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114118

Included Lab Sample IDs: 2344705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.1	90.5	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 SMP	MS
DEP SOP: NU-094-1	Color (true)	102					1.56	
EPA 180.1 Rev. 2.0	Turbidity	97.1					7.68	
EPA 200.7 Rev. 4.4	Calcium	105	104	102				3.87
	Iron	109	102	103	102			0.820
	Magnesium	103	101	104	97.0			1.60
	Potassium	105	101	104	98.2			1.65
	Sodium	99.3	98.5	97.6				2.44
	Strontium	106	105	107	103			1.71
	Tin	107	102	104	102			1.65
	Titanium	106	102	105	101			2.73
	Vanadium	106	104	107	102			3.32
	Zinc	108	106	110	104			3.35
EPA 200.8 Rev. 5.4	Aluminum	97.3	102	103	101			0.807
	Antimony	98.6	99.8	100	102			0.282
	Arsenic	98.0	98.3	99.5	99.7			1.18
	Barium	102	100	101	102			0.750
	Beryllium	91.4	94.1	93.0	94.7			1.18
	Boron	98.5	105	104	106			0.453
	Cadmium	96.4	96.7	98.2	99.4			1.53
	Chromium	97.3	96.8	97.1	101			0.360
	Cobalt	97.9	97.5	96.5	98.2			1.03
	Copper	97.1	96.4	96.2	97.1			0.219
	Lead	93.5	94.7	95.9	97.4			1.24
	Manganese	97.4	97.8	99.0	99.6			1.01
	Molybdenum	96.0	98.2	99.2	99.5			0.981
	Nickel	98.7	97.5	97.2	98.5			0.245
	Selenium	98.4	94.0	94.4	95.7			0.446
	Silver	96.2	94.6	95.2	96.4			0.644
	Thallium	99.3	101	103	104			2.38
EPA 300.0 Rev. 2.1	Chloride	94.0	91.1	92.3			0.820	
	Sulfate	97.0	93.2	94.2			0.735	
EPA 350.1 Rev. 2.0	Ammonia-N	103	97.4	102				3.17
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	110	108	108				0.422
	Kjeldahl Nitrogen	102						1.97
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	100	100				0.0
EPA 365.1 Rev. 2.0	Total-P	101	103	101				1.18
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.2	106	100				5.11
	Acetochlor	120	77.1	76.0				0.638
	Alachlor	113	92.8	90.7				2.33
	Aldrin	59.2	50.0	50.8				1.75
	Alpha-BHC	93.9	91.8	80.7				12.9
	Alpha-Chlordane	83.3	70.2	73.6				4.76
	Ametryn	114	92.3	90.0				2.56
	Atrazine	114						1.10
	Atrazine Desethyl	94.7	59.9	67.2				9.17
	Avobenzone	105	93.1	96.6				3.70
	Azinphos Methyl	143	118	123				3.57
	Azoxystrobin	152	92.5	102				5.45
	Beta-BHC	114	116	111				3.96
	Beta-Cyfluthrin	132	117	148				23.4
	Bifenthrin	102	84.8	97.5				14.0
	Bromacil	97.1	75.5	81.0				7.03

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Butylate	72.2	57.9	61.2			5.60
	Caffeine	73.7	93.3	85.8			8.20
	Carbophenothion	119	97.4	95.9			1.55
	Carfentrazone Ethyl	129	105	107			2.03
	Chlorfenapyr	109	101	96.3			4.46
	Chlorothalonil	134	153	141			8.35
	Chlorpyrifos Ethyl	110	89.2	90.2			1.20
	Chlorpyrifos Methyl	119	105	101			3.37
	Cis-Nonachlor	89.1	80.9	68.0			17.2
	Coumaphos	129	113	107			5.35
	Cyanazine	112	88.9	87.5			1.57
	Cypermethrin	108	90.7	127			33.4
	Cyprodinil	120	89.5	86.4			3.31
	Dacthal	92.1	91.2	80.5			12.4
	DDD-p,p'	84.0	79.8	60.2			28.0
	DDE-p,p'	86.8	78.3	66.9			15.7
	DDT-p,p'	87.3	78.1	73.9			5.52
	Delta-BHC	114	115	108			6.52
	Deltamethrin	187	157	190			19.0
	Demeton	111	91.5	93.4			2.01
	Diazinon	123	99.2	97.6			1.67
	Dichlobenil	89.6	89.5	73.2			20.0
	Dicofol	92.9	85.0	97.3			13.5
	Dieldrin	88.2	83.5	67.8			20.7
	Difenoconazole	145	131	119			9.37
	Dimethenamid	101	80.8	75.2			6.69
	Dimethomorph	175	95.2	116			20.1
	Disulfoton	113	91.7	87.0			5.28
	Dithiopyr	100	82.7	86.2			4.16
	Endosulfan I	90.8	78.8	70.3			11.5
	Endosulfan II	93.1	82.6	69.8			16.8
	Endosulfan Sulfate	79.0	126	138			9.34
	Endrin	88.7	82.5	72.4			12.9
	Endrin Aldehyde	83.0	80.6	70.7			13.1
	Endrin Ketone	104	97.1	87.0			11.0
	EPTC	60.1	51.1	52.4			2.54
	Esfenvalerate	148	136	164			18.3
	Ethalfuralin	82.1	75.1	70.3			6.57
	Ethion	75.6	103	78.3			27.1
	Ethoprop	113	97.9	97.5			0.370
	Etridiazole	75.9	59.0	57.0			3.54
	Fenamiphos	113	83.3	102			19.9
	Fenbuconazole	117	103	98.1			4.72
	Fenpropathrin	90.9	107	97.8			8.53
	Fipronil	118	95.0	93.8			1.37
	Fipronil Desulfinyl	123	102	103			0.325
	Fipronil Sulfide	102	93.9	91.8			2.33
	Fipronil Sulfone	117	86.4	81.6			5.69
	Fluazifop-P-butyl	124	98.6	97.7			0.919
	Fludioxonil	112	87.4	86.4			1.23
	Flumioxazin	173	153	138			9.75
	Flutolanil	110	90.1	83.6			6.51
	Fluxapyroxad	105	86.1	81.5			4.63
	Fonofos	110	89.2	91.8			2.94

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Gamma-BHC	97.8	94.4	89.2			5.72
	Gamma-Chlordane	80.1	75.8	67.9			11.0
	Heptachlor	75.9	63.0	61.1			3.06
	Heptachlor Epoxide	78.0	76.1	68.0			11.3
	Hexachlorobenzene	83.0	77.5	69.5			10.8
	Hexazinone	116	99.3	100			1.14
	Imazalil	110	82.9	72.0			14.1
	Iprodione	123	104	99.5			4.50
	Kepone	33.1	29.6	25.9			13.3
	Lambda-Cyhalothrin	121	105	116			10.4
	Loratadine	168	93.8	117			21.8
	Malathion	120	100	108			7.10
	Metalaxyl	114	95.3	88.5			7.41
	Methoprene	75.0	66.1	64.0			3.23
	Methoxychlor	107	94.7	95.2			0.492
	Metolachlor	111					2.17
	Metribuzin	130	100	115			13.6
	Mevinphos	109	98.6	100			1.60
	MGK-264	67.2	73.1	64.4			12.7
	Mirex	80.2	70.6	67.5			4.40
	Molinate	78.8	68.6	75.2			9.20
	Myclobutanil	112	89.3	87.1			2.51
	Naled	80.5	96.1	98.1			1.99
	Napropamide	102	86.1	83.2			3.44
	Norflurazon	109	89.8	83.2			7.30
	Octinoxate	99.0	99.1	102			2.84
	Oxadiazon	96.7	78.6	72.6			7.94
	Oxybenzone	86.7	92.0	97.8			6.08
	Oxychlordane	75.2	67.5	64.6			4.34
	Oxyfluorfen	136	127	112			12.1
	Parathion Ethyl	118	102	104			2.35
	Parathion Methyl	150	129	119			8.00
	PBDE-47	90.8	100	93.0			7.52
	PBDE-99	87.6	99.2	90.8			8.75
	PCB-1016	86.3	81.9	96.3			16.2
	PCB-1260	86.0	82.2	88.7			7.65
	Pendimethalin	123	110	104			5.62
	Permethrin	114	92.7	122			27.3
	Phenothrin	82.6	75.4	88.6			16.1
	Phenytoin	44.5	66.2	35.0			61.6
	Phorate	111	88.3	95.3			7.58
	Piperonyl Butoxide	128	129	121			5.77
	Prallethrin	86.5	76.1	60.7			22.6
	Prodimamine	55.8	44.4	54.8			21.0
	Prometon	84.6	75.8	73.2			3.56
	Prometryn	109	90.5	86.6			4.40
	Pronamide	129	104	96.1			7.61
	Propanil	116	91.1	86.4			5.20
	Propargite	75.2	92.1	56.0			48.8
	Propiconazole	102	97.4	90.4			7.45
	Pyraflufen Ethyl	111	89.4	88.2			1.32
	Pyridaben	112	97.8	88.2			10.3
	Pyriproxyfen	103	90.9	81.5			10.9
	Simazine	120	93.2	104			10.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Stiropfos	84.2	97.0	74.1			26.8
	Sulfentrazone	126	97.4	98.9			1.53
	Tau-Fluvalinate	114	119	185			43.5
	Tebuconazole	61.9	79.2	51.8			34.1
	Terbufos	130	110	110			0.424
	Terbutylazine	108	94.3	98.2			4.01
	Tetramethrin	101	98.5	88.6			10.6
	Thiobencarb	99.9	76.6	82.6			7.51
	Trans-Nonachlor	68.5	69.4	69.8			0.671
	Tri-o-cresyl Phosphate	99.3	95.5	95.2			0.324
	Triadimefon	103	83.6	85.5			2.22
	Triclosan Methyl	87.8	80.7	77.7			3.78
	Trifluralin	85.8	72.4	65.3			10.2
	Chlordane	97.8	96.3	107			10.3
EPA 8276	Toxaphene	99.2	99.1	113			13.0
EPA 8321B	2,4-D	86.1	90.4	70.6			24.6
	2,4,5-T	47.2	57.0	43.8			26.2
	3-Hydroxycarbofuran	98.3	105	97.8			7.43
	Acesulfame K	101	86.6	90.1			3.90
	Acetaminophen	88.1	110	103			6.72
	Acetamiprid	93.6	104	91.9			12.4
	Afidopyropen	46.1	53.6	46.4			14.4
	Aldicarb	75.3	78.8	62.8			22.5
	Aldicarb Sulfone	108	111	115			2.86
	Aldicarb Sulfoxide	99.3	61.4	62.4			1.50
	AMPA	110	72.3	76.7			5.19
	Bentazon	59.2	64.3	56.9			12.2
	Benzovindiflupyr	41.0	46.5	41.8			10.6
	Carbamazepine	62.4	74.2	59.9			21.3
	Carbaryl	91.6	89.8	75.5			17.3
	Carbofuran	77.5	84.4	78.9			6.80
	Clothianidin	105	120	110			8.80
	Dinotefuran	108	143	128			11.3
	Diuron	40.5	42.7	42.7			0.0307
	Endothall	80.0	104	102			1.77
	Fenuron	106	114	111			3.25
	Fluridone	58.5	58.3	55.9			4.24
	Glufosinate	89.2	79.0	82.5			4.28
	Glyphosate	91.0	71.1	76.7			6.37
	Hydrocodone	96.3	117	105			10.6
	Ibuprofen	67.9	67.1	80.3			17.9
	Imazapyr	130	132	104			23.7
	Imidacloprid	143	154	120			25.0
	Linuron	65.5	73.7	63.2			15.3
	Mandestrobin	52.0	53.6	48.4			10.2
	MCPP	61.8	67.2	54.2			21.4
	Methiocarb	92.6	104	92.9			11.3
	Methomyl	96.4	102	89.6			13.1
	Naproxen	43.5	66.1	57.3			14.3
	Oxamyl	90.9	89.4	84.5			5.67
	Primidone	110	118	110			7.03
	Propoxur	72.6	72.8	75.9			4.27
	Pyraclostrobin	44.2	50.5	45.6			10.1
	Silvex	45.1	56.7	42.7			28.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Sucralose	98.2	95.7	101		5.61
	Thiamethoxam	107	143	123		15.2
	Tolfenpyrad	36.4	37.3	33.4		11.0
	Triclopyr	57.5	53.4	43.8		19.8
SM 2320 B-2011	Total Alkalinity	98.6			0.601	
SM 2540 C-2011	TDS				4.20	
	TDS				5.26	
SM 2540 D-2011	TSS				3.92	
SM 4500-F- C-2011	Fluoride	101	97.2	97.2		0.0
SM 5310 B-2011	Organic Carbon	96.4	98.0	97.8		0.0785
	Organic Carbon	98.3	99.1	98.7		0.224

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2344700, 2344702, 2344704
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2344700, 2344702, 2344704
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2344721
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2344721
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2344700, 2344702, 2344704
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2344700, 2344702, 2344704
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2344701, 2344703, 2344705
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2344701, 2344703, 2344705
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2344701, 2344703, 2344705
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2344701, 2344703, 2344705
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2344718, 2344720
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2344717, 2344719
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2344718, 2344720
EPA 8270E	PCBs in water matrices by GC/MS/MS	2344717, 2344719
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2344717, 2344719
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2344713, 2344715
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2344712, 2344714, 2344716
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2344700, 2344702, 2344704
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2344721
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2344700, 2344702, 2344704
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2344700, 2344702, 2344704
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2344700, 2344702, 2344704
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2344701, 2344703, 2344705

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	07/29/2022			07/29/2022 14:59	Anna M. Plaviak	2344700
	07/29/2022			07/29/2022 15:00	Anna M. Plaviak	2344704
	07/29/2022			07/29/2022 15:16	Anna M. Plaviak	2344702
EPA 180.1 Rev. 2.0	07/29/2022			07/29/2022 14:01	Khloe J Berg	2344700
	07/29/2022			07/29/2022 14:03	Khloe J Berg	2344702
	07/29/2022			07/29/2022 14:04	Khloe J Berg	2344704
EPA 200.7 Rev. 4.4	07/29/2022	08/02/2022 10:00	Megan Whitefoot	08/03/2022 21:45	McKinley C Carter	2344721
	07/29/2022	08/02/2022 10:00	Megan Whitefoot	08/05/2022 17:03	McKinley C Carter	2344721
EPA 200.8 Rev. 5.4	07/29/2022	08/02/2022 10:00	Megan Whitefoot	08/02/2022 20:00	Emily M Philpot	2344721
EPA 300.0 Rev. 2.1	07/29/2022			08/04/2022 13:50	Anna M. Plaviak	2344700
	07/29/2022			08/04/2022 14:02	Anna M. Plaviak	2344702
	07/29/2022			08/04/2022 14:14	Anna M. Plaviak	2344704
EPA 350.1 Rev. 2.0	07/29/2022			08/08/2022 13:27	Judith K. Clark	2344701
	07/29/2022			08/08/2022 13:29	Judith K. Clark	2344703
	07/29/2022			08/08/2022 13:30	Judith K. Clark	2344705
EPA 351.2 Rev. 2.0	07/29/2022	08/02/2022 13:37	Samantha L Bates	08/03/2022 12:13	Samantha L Bates	2344701
	07/29/2022	08/02/2022 13:37	Samantha L Bates	08/03/2022 12:15	Samantha L Bates	2344703
	07/29/2022	08/09/2022 15:02	Alexandra J Mattheus	08/15/2022 17:12	Samantha L Bates	2344705
EPA 353.2 Rev. 2.0	07/29/2022			08/04/2022 11:09	Beverly Y. Sanders	2344701
	07/29/2022			08/04/2022 11:10	Beverly Y. Sanders	2344703
	07/29/2022			08/04/2022 11:11	Beverly Y. Sanders	2344705
EPA 365.1 Rev. 2.0	07/29/2022	08/03/2022 17:35	Adam P Silver	08/04/2022 10:42	James L Waggeberby	2344701
	07/29/2022	08/03/2022 17:35	Adam P Silver	08/04/2022 10:43	James L Waggeberby	2344703
	07/29/2022	08/03/2022 17:35	Adam P Silver	08/04/2022 14:41	James L Waggeberby	2344705
EPA 8270E	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/05/2022 16:23	Lipi Saha	2344718
	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/05/2022 16:42	Lipi Saha	2344720
	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/09/2022 00:12	Michael Poppell	2344720
	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/12/2022 18:30	Michael Poppell	2344718
	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/12/2022 18:57	Michael Poppell	2344720
	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/16/2022 00:38	Michael Poppell	2344718
	07/29/2022	08/03/2022 08:00	Fe-Val Siddell	08/04/2022 19:34	Vandana T. Nagar	2344717
	07/29/2022	08/03/2022 08:00	Fe-Val Siddell	08/04/2022 20:04	Vandana T. Nagar	2344719
EPA 8276	07/29/2022	08/03/2022 08:00	Fe-Val Siddell	08/04/2022 23:21	Julie Wi	2344717
	07/29/2022	08/03/2022 08:00	Fe-Val Siddell	08/04/2022 23:51	Julie Wi	2344719
	07/29/2022	08/03/2022 08:00	Fe-Val Siddell	08/09/2022 04:16	Arthur Maknenko	2344717
	07/29/2022	08/03/2022 08:00	Fe-Val Siddell	08/09/2022 05:13	Arthur Maknenko	2344719
	07/29/2022	08/03/2022 08:00	Fe-Val Siddell	08/09/2022 05:13	Arthur Maknenko	2344719
EPA 8321B	07/29/2022	08/01/2022 09:00	June Rhew	08/02/2022 22:54	Juyoung Kim	2344713
	07/29/2022	08/01/2022 09:00	June Rhew	08/02/2022 23:15	Juyoung Kim	2344715
	07/29/2022	08/02/2022 09:10	Umesh Chiluwai	08/02/2022 10:17	Umesh Chiluwai	2344712
	07/29/2022	08/02/2022 09:10	Umesh Chiluwai	08/02/2022 12:17	Umesh Chiluwai	2344714

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	07/29/2022	08/02/2022 09:10	Umesh Chiluwal	08/02/2022 12:32	Umesh Chiluwal	2344716
	07/29/2022	08/02/2022 09:10	Umesh Chiluwal	08/02/2022 18:12	Umesh Chiluwal	2344712
	07/29/2022	08/02/2022 09:10	Umesh Chiluwal	08/02/2022 19:56	Umesh Chiluwal	2344714
	07/29/2022	08/02/2022 09:10	Umesh Chiluwal	08/02/2022 20:09	Umesh Chiluwal	2344716
	07/29/2022	08/03/2022 09:30	June Rhew	08/05/2022 01:20	Juyoung Kim	2344712
	07/29/2022	08/03/2022 09:30	June Rhew	08/05/2022 01:40	Juyoung Kim	2344714
	07/29/2022	08/03/2022 09:30	June Rhew	08/05/2022 02:01	Juyoung Kim	2344716
SM 2320 B-2011	07/29/2022			08/03/2022 04:16	Dale L. Simmons	2344700
	07/29/2022			08/03/2022 04:30	Dale L. Simmons	2344702
	07/29/2022			08/03/2022 04:39	Dale L. Simmons	2344704
SM 2340 B-2011	07/29/2022			08/03/2022 21:45	McKinley C Carter	2344721
SM 2540 C-2011	07/29/2022			08/02/2022 15:05	Yijie Li	2344700, 2344702, 2344704
SM 2540 D-2011	07/29/2022			08/02/2022 15:05	Yijie Li	2344700, 2344702, 2344704
SM 4500-F- C-2011	07/29/2022			08/03/2022 04:16	Dale L. Simmons	2344700
	07/29/2022			08/03/2022 04:30	Dale L. Simmons	2344702
	07/29/2022			08/03/2022 04:39	Dale L. Simmons	2344704
SM 5310 B-2011	07/29/2022			08/02/2022 19:22	Khloe J Berg	2344701
	07/29/2022			08/04/2022 08:20	Khloe J Berg	2344703
	07/29/2022			08/04/2022 08:35	Khloe J Berg	2344705