

Chemical Analysis Report

SE-DIST-2022-08-03-01

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

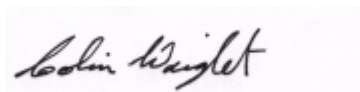
Event Description: **Boynton, Hollywood**
Request ID: **RQ-2022-08-01-54**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Jordan Skaggs

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 25-AUG-2022 12:11

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

Case Narrative

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

Results for the following analytical groups are included in this report: 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: Dania Cutoff @ Griffin Marine Park

Collection Date/Time: 08/02/2022 09:45

Field ID: G4SE0146

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345553	EPA 180.1 Rev. 2.0	Turbidity	0.95	I	NTU	P417588	
	SM 2320 B-2011	Total Alkalinity	178		mg CaCO3/L	P417976	
	SM 2540 D-2011	TSS	3	U	mg/L	P418105	
	SM 4500-F- C-2011	Fluoride	0.55		mg F/L	P417978	
2345554	EPA 350.1 Rev. 2.0	Ammonia-N	0.092		mg N/L	P418327	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.83		mg N/L	P417572	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P417820	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P417788	
	SM 5310 B-2011	Organic Carbon	8.6		mg C/L	P417900	
2345561	EPA 8321B	2,4-D	0.043		ug/L	P417606	
		Acesulfame K	0.11	I	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	1.0	U	ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	1.0	U	ug/L	P417520	
		Glyphosate	1.0	U	ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	0.032		ug/L	P417606	
		Sucralose	0.30		ug/L	P417520	
		Benzovindiflupyr	0.0020	U	ug/L	P417606	
		Carbamazepine	0.0026	I	ug/L	P417606	
		Clothianidin	0.0020	U	ug/L	P417606	
		Dinotefuran	0.0020	U	ug/L	P417606	
		Diuron	0.010		ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	0.031		ug/L	P417606	
		Imazapyr	0.18		ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.0091		ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCP	0.0040	U	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.0020	U	ug/L	P417606	
		Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345566	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P417604	
		Acetochlor	0.24	U	ng/L	P417604	

Field ID: G4SE0146

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345566	EPA 8270E	Octinoxate**	19	U	ng/L	P417604	
		Alachlor	0.24	U	ng/L	P417604	
		Avobenzone**	97	U	ng/L	P417604	
		Ametryn	0.93	I	ng/L	P417604	
		Atrazine	22		ng/L	P417604	
		PBDE-47**	3.9	U	ng/L	P417604	
		Atrazine Desethyl	1.5	U	ng/L	P417604	
		PBDE-99**	4.8	U	ng/L	P417604	
		Azinphos Methyl	1.9	U	ng/L	P417604	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P417604	
		Azoxystrobin	0.48	U	ng/L	P417604	
		Bromacil	0.48	U	ng/L	P417604	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P417604	
		Butylate	0.39	U	ng/L	P417604	
		Caffeine**	20	I	ng/L	P417604	
		Carbophenothion	0.19	U	ng/L	P417604	
		Carfentrazone Ethyl	0.097	U	ng/L	P417604	
		Chlorfenapyr	0.17	U	ng/L	P417604	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P417604	
		Chlorpyrifos Methyl	0.048	U	ng/L	P417604	
		Coumaphos	0.48	U	ng/L	P417604	
		Cyanazine	3.2	U	ng/L	P417604	
		Cyprodinil	0.097	U	ng/L	P417604	
		Demeton	1.5	U	ng/L	P417604	
		Diazinon	0.12	U	ng/L	P417604	
		Difenoconazole	0.58	U	ng/L	P417604	
		Dimethenamid	0.097	U	ng/L	P417604	
		Dimethomorph	0.17	U	ng/L	P417604	
		Disulfoton	0.48	U	ng/L	P417604	
		Dithiopyr	0.17	U	ng/L	P417604	
		EPTC	1.2	U	ng/L	P417604	
		Ethion	0.15	UJ	ng/L	P417604	LCS
		Ethoprop	0.097	U	ng/L	P417604	
		Etridiazole	0.15	U	ng/L	P417604	
		Fenamiphos	0.48	U	ng/L	P417604	
		Fenbuconazole	0.12	U	ng/L	P417604	
		Fipronil	0.24	U	ng/L	P417604	
		Fipronil Desulfinyl**	0.28	I	ng/L	P417604	
		Fipronil Sulfide	0.34	I	ng/L	P417604	
		Fipronil Sulfone	0.52	I	ng/L	P417604	
		Fluazifop-P-butyl	0.097	U	ng/L	P417604	
		Fludioxonil	0.12	U	ng/L	P417604	
		Flumioxazin	1.7	U	ng/L	P417604	
		Flutolanil	0.29	I	ng/L	P417604	

Field ID: G4SE0146

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345566	EPA 8270E	Fluxapyroxad	0.35	I	ng/L	P417604	
		Fonofos	0.19	U	ng/L	P417604	
		Hexazinone	3.6		ng/L	P417604	
		Imazalil	0.73	U	ng/L	P417604	
		Iprodione	0.58	U	ng/L	P417604	
		Loratadine**	0.097	U	ng/L	P417604	MS
		Malathion	1.4		ng/L	P417604	
		Metaxyl	0.73	U	ng/L	P417604	
		Metolachlor	0.34	U	ng/L	P417604	
		Metribuzin	2.4	U	ng/L	P417604	
		Mevinphos	1.0	U	ng/L	P417604	
		Molinate	0.29	U	ng/L	P417604	
		Myclobutanil	0.24	U	ng/L	P417604	
		Naled	1.5	U	ng/L	P417604	
		Napropamide	0.39	U	ng/L	P417604	
		Norflurazon	0.48	U	ng/L	P417604	
		Oxadiazon	0.79	I	ng/L	P417604	
		Oxyfluorfen	0.15	U	ng/L	P417604	
		Parathion Ethyl	0.24	U	ng/L	P417604	
		Parathion Methyl	0.53	U	ng/L	P417604	
		Pendimethalin	0.97	U	ng/L	P417604	
		Phenytoin**	3.4	U	ng/L	P417604	MS
		Phorate	0.51	U	ng/L	P417604	
		Prodiamine	0.17	U	ng/L	P417604	
		Prometon	0.87	U	ng/L	P417604	
		Prometryn	0.19	U	ng/L	P417604	
		Pronamide	0.15	U	ng/L	P417604	
		Propanil	0.12	U	ng/L	P417604	
		Propargite	1.5	UJ	ng/L	P417604	LCS
		Propiconazole	0.75	I	ng/L	P417604	
		Pyraflufen Ethyl	0.24	U	ng/L	P417604	
		Pyridaben	0.44	U	ng/L	P417604	
		Pyriproxyfen	0.12	U	ng/L	P417604	
		Simazine	0.48	U	ng/L	P417604	
		Stirophos	0.12	U	ng/L	P417604	
		Sulfentrazone	7.2		ng/L	P417604	
		Tebuconazole	1.1	I	ng/L	P417604	
		Terbufos	0.097	U	ng/L	P417604	
		Terbuthylazine	0.41	U	ng/L	P417604	
		Thiobencarb	0.58	U	ng/L	P417604	
		Triadimefon	0.24	U	ng/L	P417604	
2345569	EPA 200.7 Rev. 4.4	Calcium	198		mg/L	P417609	
		Iron	90	U	ug/L	P417609	
		Magnesium	437		mg/L	P417609	
		Strontium	2.98E+03		ug/L	P417609	

Field ID: G4SE0146

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345569	EPA 200.7 Rev. 4.4	Tin	21	I	ug/L	P417609	
		Titanium	2.2	U	ug/L	P417609	
		Vanadium	6.0	U	ug/L	P417609	
		Zinc	15	U	ug/L	P417609	
	EPA 200.8 Rev. 5.4	Aluminum	20	U	ug/L	P417609	
		Antimony	0.20	U	ug/L	P417609	
		Arsenic	1.88		ug/L	P417609	
		Beryllium	0.040	U	ug/L	P417609	
		Cadmium	0.080	U	ug/L	P417609	
		Chromium	1.6	U	ug/L	P417609	
		Cobalt	0.69		ug/L	P417609	
		Copper	6.5		ug/L	P417609	
		Lead	0.80	U	ug/L	P417609	
		Manganese	6.3		ug/L	P417609	
		Molybdenum	4.3		ug/L	P417609	
		Nickel	2.0	U	ug/L	P417609	
		Selenium	0.80	U	ug/L	P417609	
		Silver	0.040	U	ug/L	P417609	
		Thallium	0.40	U	ug/L	P417609	

Ref. Method and Comment:

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

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

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix. MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.

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

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium and strontium are unavailable because of high analyte concentration in the QC sample.

EPA 200.8 Rev. 5.4: The copper result was confirmed in the undigested sample on 08/05/2022.

Sample Location: Boynton Canal @ Lyons

Collection Date/Time: 08/02/2022 11:50

Field ID: G3SE0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345559	EPA 8321B	Aldicarb	0.020	U	ug/L	P417651	
		Aldicarb Sulfone	0.0020	U	ug/L	P417651	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P417651	MS
		Carbaryl	0.0020	U	ug/L	P417651	
		Carbofuran	0.0020	U	ug/L	P417651	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P417651	
		Methiocarb	0.0020	U	ug/L	P417651	
		Methomyl	0.0020	U	ug/L	P417651	
		Oxamyl	0.0020	U	ug/L	P417651	
		Propoxur	0.0020	U	ug/L	P417651	
2345560		2,4-D	0.018		ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	3.8		ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0037	I	ug/L	P417606	
		Endothall	2.5	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	4.1		ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	0.074		ug/L	P417606	
		Sucralose	0.17		ug/L	P417520	
		Benzovindiflupyr	0.010		ug/L	P417606	
		Carbamazepine	8.0E-04	U	ug/L	P417606	
		Clothianidin	0.0042	I	ug/L	P417606	
		Dinotefuran	0.29		ug/L	P417606	
		Diuron	0.60		ug/L	P417606	
		Fenuron	0.21		ug/L	P417606	
		Fluridone	0.068		ug/L	P417606	
		Imazapyr	0.26		ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.26		ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0040	U	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.075		ug/L	P417606	
		Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345564	EPA 8270E	Aldrin	0.67	U	ng/L	P417747	

Field ID: G3SE0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345564	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P417747	
		Alpha-Chlordane	0.21	U	ng/L	P417747	
		PCB-1016	2.1	U	ng/L	P417747	
		Beta-BHC	0.10	U	ng/L	P417747	
		PCB-1221	2.1	U	ng/L	P417747	
		Beta-Cyfluthrin	1.3	U	ng/L	P417747	
		PCB-1232	2.1	U	ng/L	P417747	
		Bifenthrin	0.52	U	ng/L	P417747	
		PCB-1242	2.1	U	ng/L	P417747	
		PCB-1248	2.1	U	ng/L	P417747	
		Chlorothalonil	1.3	U	ng/L	P417747	
		PCB-1254	2.1	U	ng/L	P417747	
		Cis-Nonachlor	0.21	U	ng/L	P417747	
		PCB-1260	2.1	U	ng/L	P417747	
		Cypermethrin	1.6	U	ng/L	P417747	
		Dacthal	0.16	U	ng/L	P417747	
		DDD-p,p'	0.26	U	ng/L	P417747	
		DDE-p,p'	0.21	U	ng/L	P417747	
		DDT-p,p'	0.26	U	ng/L	P417747	
		Delta-BHC	0.41	U	ng/L	P417747	
		Deltamethrin	1.3	U	ng/L	P417747	
		Dichlobenil	0.26	U	ng/L	P417747	
		Dicofol	1.3	U	ng/L	P417747	
		Dieldrin	0.41	U	ng/L	P417747	
		Endosulfan I	0.41	U	ng/L	P417747	
		Endosulfan II	0.41	U	ng/L	P417747	
		Endosulfan Sulfate	0.31	U	ng/L	P417747	
		Endrin	0.41	U	ng/L	P417747	
		Endrin Aldehyde	0.78	U	ng/L	P417747	
		Endrin Ketone	0.41	U	ng/L	P417747	
		Esfenvalerate	0.78	U	ng/L	P417747	
		Ethalfuralin	0.16	U	ng/L	P417747	
		Fenpropathrin	0.26	U	ng/L	P417747	
		Gamma-BHC	0.13	U	ng/L	P417747	
		Gamma-Chlordane	0.21	U	ng/L	P417747	
		Heptachlor	0.21	U	ng/L	P417747	
		Heptachlor Epoxide	0.26	U	ng/L	P417747	
		Hexachlorobenzene**	1.0	U	ng/L	P417747	
		Kepone	5.2	U	ng/L	P417747	
		Lambda-Cyhalothrin	0.78	U	ng/L	P417747	
		Methoprene	0.78	U	ng/L	P417747	
		Methoxychlor	0.31	U	ng/L	P417747	
		MGK-264	0.21	U	ng/L	P417747	
		Mirex	0.36	U	ng/L	P417747	
		Oxychlordane	0.31	U	ng/L	P417747	

Field ID: G3SE0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345564	EPA 8270E	Permethrin	1.7	U	ng/L	P417747	
		Phenothrin	0.93	U	ng/L	P417747	
		Piperonyl Butoxide	0.16	U	ng/L	P417747	
		Prallethrin	2.1	U	ng/L	P417747	
		Tau-Fluvalinate	0.26	U	ng/L	P417747	
		Tetramethrin	0.78	U	ng/L	P417747	
		Trans-Nonachlor	0.21	U	ng/L	P417747	
		Triclosan Methyl	0.16	U	ng/L	P417747	
		Trifluralin	0.21	U	ng/L	P417747	
		Chlordane	2.6	U	ng/L	P417747	
	EPA 8276	Toxaphene	16	U	ng/L	P417747	
		Oxybenzone**	9.5	U	ng/L	P417604	
2345565	EPA 8270E	Acetochlor	0.24	U	ng/L	P417604	
		Octinoxate**	19	U	ng/L	P417604	
		Alachlor	0.24	U	ng/L	P417604	
		Avobenzone**	95	U	ng/L	P417604	
		Ametryn	3.4		ng/L	P417604	
		Atrazine	42		ng/L	P417604	
		PBDE-47**	3.8	U	ng/L	P417604	
		Atrazine Desethyl	4.8	I	ng/L	P417604	
		PBDE-99**	4.8	U	ng/L	P417604	
		Azinphos Methyl	1.9	U	ng/L	P417604	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P417604	
		Azoxystrobin	5.3		ng/L	P417604	
		Bromacil	0.48	U	ng/L	P417604	
		2-Ethylhexyl	11	U	ng/L	P417604	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P417604	
		Caffeine**	7.1	U	ng/L	P417604	
		Carbophenothion	0.19	U	ng/L	P417604	
		Carfentrazone Ethyl	0.095	U	ng/L	P417604	
		Chlorfenapyr	0.17	U	ng/L	P417604	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P417604	
		Chlorpyrifos Methyl	0.048	U	ng/L	P417604	
		Coumaphos	0.48	U	ng/L	P417604	
		Cyanazine	3.1	U	ng/L	P417604	
		Cyprodinil	0.70		ng/L	P417604	
		Demeton	1.4	U	ng/L	P417604	
		Diazinon	0.12	U	ng/L	P417604	
		Difenoconazole	0.57	U	ng/L	P417604	
		Dimethenamid	1.6		ng/L	P417604	
		Dimethomorph	1.4		ng/L	P417604	
		Disulfoton	0.48	U	ng/L	P417604	
		Dithiopyr	0.48	I	ng/L	P417604	
		EPTC	2.1	I	ng/L	P417604	

Field ID: G3SE0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345565	EPA 8270E	Ethion	0.14	UJ	ng/L	P417604	LCS
		Ethoprop	0.095	U	ng/L	P417604	
		Etridiazole	0.14	U	ng/L	P417604	
		Fenamiphos	0.48	U	ng/L	P417604	
		Fenbuconazole	0.12	U	ng/L	P417604	
		Fipronil	0.24	U	ng/L	P417604	
		Fipronil DesulfinyI**	0.34	I	ng/L	P417604	
		Fipronil Sulfide	0.16	I	ng/L	P417604	
		Fipronil Sulfone	0.40	I	ng/L	P417604	
		Fluazifop-P-butyl	0.095	U	ng/L	P417604	
		Fludioxonil	1.6		ng/L	P417604	
		Flumioxazin	1.7	U	ng/L	P417604	
		Flutolanil	2.9		ng/L	P417604	
		Fluxapyroxad	0.095	U	ng/L	P417604	
		Fonofos	0.19	U	ng/L	P417604	
		Hexazinone	8.0		ng/L	P417604	
		Imazalil	0.71	U	ng/L	P417604	
		Iprodione	0.57	U	ng/L	P417604	
		Loratadine**	0.095	U	ng/L	P417604	MS
		Malathion	0.33	U	ng/L	P417604	
		Metalaxyl	4.0		ng/L	P417604	
		Metolachlor	14		ng/L	P417604	
		Metribuzin	2.4	U	ng/L	P417604	
		Mevinphos	1.0	U	ng/L	P417604	
		Molinate	0.29	U	ng/L	P417604	
		Myclobutanil	7.4		ng/L	P417604	
		Naled	1.4	U	ng/L	P417604	
		Napropamide	1.3	I	ng/L	P417604	
		Norflurazon	0.48	U	ng/L	P417604	
		Oxadiazon	1.8		ng/L	P417604	
		Oxyfluorfen	0.14	U	ng/L	P417604	
		Parathion Ethyl	0.24	U	ng/L	P417604	
		Parathion Methyl	0.52	U	ng/L	P417604	
		Pendimethalin	3.1	I	ng/L	P417604	
		Phenytol**	3.3	U	ng/L	P417604	MS
		Phorate	0.50	U	ng/L	P417604	
		Prodiamine	0.17	U	ng/L	P417604	
		Prometon	0.86	U	ng/L	P417604	
		Prometryn	0.19	U	ng/L	P417604	
		Pronamide	0.14	U	ng/L	P417604	
		Propanil	0.12	U	ng/L	P417604	
		Propargite	1.4	UJ	ng/L	P417604	LCS
		Propiconazole	0.48	U	ng/L	P417604	
		Pyraflufen Ethyl	0.24	U	ng/L	P417604	
		Pyridaben	0.43	U	ng/L	P417604	

Field ID: G3SE0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345565	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P417604	
		Simazine	0.48	U	ng/L	P417604	
		Stirophos	0.12	U	ng/L	P417604	
		Sulfentrazone	3.2		ng/L	P417604	
		Tebuconazole	0.53	I	ng/L	P417604	
		Terbufos	0.095	U	ng/L	P417604	
		Terbuthylazine	0.40	U	ng/L	P417604	
		Thiobencarb	0.57	U	ng/L	P417604	
		Triadimefon	0.24	U	ng/L	P417604	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix. MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: North New River Canal (NNR-3)

Collection Date/Time: 08/02/2022 10:10

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345562	EPA 8321B	Aldicarb	0.020	U	ug/L	P417651	
		Aldicarb Sulfone	0.0020	U	ug/L	P417651	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P417651	MS
		Carbaryl	0.0020	U	ug/L	P417651	
		Carbofuran	0.0020	U	ug/L	P417651	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P417651	
		Methiocarb	0.0020	U	ug/L	P417651	
		Methomyl	0.0020	U	ug/L	P417651	
		Oxamyl	0.0020	U	ug/L	P417651	
		Propoxur	0.0020	U	ug/L	P417651	
2345563		2,4-D	0.053		ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	0.10	U	ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	0.10	U	ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	0.012		ug/L	P417606	
		Sucralose	0.033	I	ug/L	P417520	
		Benzovindiflupyr	0.0020	U	ug/L	P417606	
		Carbamazepine	8.0E-04	U	ug/L	P417606	
		Clothianidin	0.0020	U	ug/L	P417606	
		Dinotefuran	0.0020	U	ug/L	P417606	
		Diuron	0.0020	U	ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	0.032		ug/L	P417606	
		Imazapyr	0.27		ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.030		ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0040	U	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.0020	U	ug/L	P417606	
		Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345567	EPA 8270E	Aldrin	0.66	U	ng/L	P417747	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345567	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P417747	CCV
		Alpha-Chlordane	0.20	U	ng/L	P417747	
		PCB-1016	2.0	U	ng/L	P417747	
		Beta-BHC	0.10	U	ng/L	P417747	
		PCB-1221	2.0	U	ng/L	P417747	
		Beta-Cyfluthrin	1.3	U	ng/L	P417747	
		PCB-1232	2.0	U	ng/L	P417747	
		Bifenthrin	0.51	U	ng/L	P417747	
		PCB-1242	2.0	U	ng/L	P417747	
		PCB-1248	2.0	U	ng/L	P417747	
		Chlorothalonil	1.3	U	ng/L	P417747	
		PCB-1254	2.0	U	ng/L	P417747	
		Cis-Nonachlor	0.20	U	ng/L	P417747	
		PCB-1260	2.0	U	ng/L	P417747	
		Cypermethrin	1.5	U	ng/L	P417747	
		Dacthal	0.15	U	ng/L	P417747	
		DDD-p,p'	0.26	U	ng/L	P417747	
		DDE-p,p'	0.20	U	ng/L	P417747	
		DDT-p,p'	0.26	U	ng/L	P417747	
		Delta-BHC	0.41	U	ng/L	P417747	
		Deltamethrin	1.3	U	ng/L	P417747	
		Dichlobenil	0.26	U	ng/L	P417747	
		Dicofol	1.3	U	ng/L	P417747	
		Dieldrin	0.41	U	ng/L	P417747	
		Endosulfan I	0.41	U	ng/L	P417747	
		Endosulfan II	0.41	U	ng/L	P417747	
		Endosulfan Sulfate	0.31	U	ng/L	P417747	
		Endrin	0.41	U	ng/L	P417747	
		Endrin Aldehyde	0.77	U	ng/L	P417747	
		Endrin Ketone	0.41	U	ng/L	P417747	
		Esfenvalerate	0.77	U	ng/L	P417747	
		Ethalfuralin	0.15	U	ng/L	P417747	
		Fenpropathrin	0.26	U	ng/L	P417747	
		Gamma-BHC	0.13	U	ng/L	P417747	
		Gamma-Chlordane	0.20	U	ng/L	P417747	
		Heptachlor	0.20	U	ng/L	P417747	
		Heptachlor Epoxide	0.26	U	ng/L	P417747	
		Hexachlorobenzene**	1.0	U	ng/L	P417747	
		Kepone	5.1	UJ	ng/L	P417747	
		Lambda-Cyhalothrin	0.77	U	ng/L	P417747	
		Methoprene	0.77	U	ng/L	P417747	
		Methoxychlor	0.31	U	ng/L	P417747	
		MGK-264	0.20	U	ng/L	P417747	
		Mirex	0.36	U	ng/L	P417747	
		Oxychlordane	0.31	U	ng/L	P417747	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345567	EPA 8270E	Permethrin	1.6	U	ng/L	P417747	
		Phenothrin	0.92	U	ng/L	P417747	
		Piperonyl Butoxide	2.8		ng/L	P417747	
		Prallethrin	2.0	U	ng/L	P417747	
		Tau-Fluvalinate	0.26	U	ng/L	P417747	
		Tetramethrin	0.77	U	ng/L	P417747	
		Trans-Nonachlor	0.20	U	ng/L	P417747	
		Triclosan Methyl	0.15	U	ng/L	P417747	
		Trifluralin	0.20	U	ng/L	P417747	
		Chlordane	2.6	U	ng/L	P417747	
2345568	EPA 8270E	Toxaphene	15	U	ng/L	P417747	
		Oxybenzone**	9.6	U	ng/L	P417604	
		Acetochlor	0.24	U	ng/L	P417604	
		Octinoxate**	19	U	ng/L	P417604	
		Alachlor	0.24	U	ng/L	P417604	
		Avobenzone**	96	U	ng/L	P417604	
		Ametryn	1.1	I	ng/L	P417604	
		Atrazine	29		ng/L	P417604	
		PBDE-47**	3.8	U	ng/L	P417604	
		Atrazine Desethyl	3.3	I	ng/L	P417604	
		PBDE-99**	4.8	U	ng/L	P417604	
		Azinphos Methyl	1.9	U	ng/L	P417604	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P417604	
		Azoxystrobin	0.48	U	ng/L	P417604	
		Bromacil	0.60	I	ng/L	P417604	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P417604	
		Butylate	0.38	U	ng/L	P417604	
		Caffeine**	7.4	I	ng/L	P417604	
		Carbophenothion	0.19	U	ng/L	P417604	
		Carfentrazone Ethyl	0.096	U	ng/L	P417604	
		Chlorfenapyr	0.17	U	ng/L	P417604	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P417604	
		Chlorpyrifos Methyl	0.048	U	ng/L	P417604	
		Coumaphos	0.48	U	ng/L	P417604	
		Cyanazine	3.1	U	ng/L	P417604	
		Cyprodinil	0.096	U	ng/L	P417604	
		Demeton	1.4	U	ng/L	P417604	
		Diazinon	0.12	U	ng/L	P417604	
		Difenoconazole	0.57	U	ng/L	P417604	
		Dimethenamid	0.096	U	ng/L	P417604	
		Dimethomorph	0.17	U	ng/L	P417604	
		Disulfoton	0.48	U	ng/L	P417604	
		Dithiopyr	0.17	U	ng/L	P417604	
		EPTC	1.2	U	ng/L	P417604	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345568	EPA 8270E	Ethion	0.14	UJ	ng/L	P417604	LCS
		Ethoprop	0.096	U	ng/L	P417604	
		Etridiazole	0.14	U	ng/L	P417604	
		Fenamiphos	0.48	U	ng/L	P417604	
		Fenbuconazole	0.12	U	ng/L	P417604	
		Fipronil	0.24	U	ng/L	P417604	
		Fipronil Desulfinyll**	0.34	I	ng/L	P417604	
		Fipronil Sulfide	0.16	I	ng/L	P417604	
		Fipronil Sulfone	0.33	I	ng/L	P417604	
		Fluazifop-P-butyl	0.096	U	ng/L	P417604	
		Fludioxonil	0.12	U	ng/L	P417604	
		Flumioxazin	1.7	U	ng/L	P417604	
		Flutolanil	0.096	U	ng/L	P417604	
		Fluxapyroxad	0.27	I	ng/L	P417604	
		Fonofos	0.19	U	ng/L	P417604	
		Hexazinone	1.4	I	ng/L	P417604	
		Imazalil	0.72	U	ng/L	P417604	
		Iprodione	0.57	U	ng/L	P417604	
		Loratadine**	0.096	U	ng/L	P417604	MS
		Malathion	0.33	U	ng/L	P417604	
		Metalaxyl	0.72	U	ng/L	P417604	
		Metolachlor	0.33	U	ng/L	P417604	
		Metribuzin	2.4	U	ng/L	P417604	
		Mevinphos	1.0	U	ng/L	P417604	
		Molinate	0.29	U	ng/L	P417604	
		Myclobutanil	0.26	I	ng/L	P417604	
		Naled	1.4	U	ng/L	P417604	
		Napropamide	0.38	U	ng/L	P417604	
		Norflurazon	0.48	U	ng/L	P417604	
		Oxadiazon	2.9		ng/L	P417604	
		Oxyfluorfen	0.14	U	ng/L	P417604	
		Parathion Ethyl	0.24	U	ng/L	P417604	
		Parathion Methyl	0.53	U	ng/L	P417604	
		Pendimethalin	0.96	U	ng/L	P417604	
		Phenytain**	3.3	U	ng/L	P417604	MS
		Phorate	0.50	U	ng/L	P417604	
		Prodiamine	0.17	U	ng/L	P417604	
		Prometon	0.86	U	ng/L	P417604	
		Prometryn	0.19	U	ng/L	P417604	
		Pronamide	0.14	U	ng/L	P417604	
		Propanil	0.12	U	ng/L	P417604	
		Propargite	1.4	UJ	ng/L	P417604	LCS
		Propiconazole	0.57	I	ng/L	P417604	
		Pyraflufen Ethyl	0.24	U	ng/L	P417604	
		Pyridaben	0.43	U	ng/L	P417604	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345568	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P417604	
		Simazine	0.48	U	ng/L	P417604	
		Stirophos	0.12	U	ng/L	P417604	
		Sulfentrazone	1.0	I	ng/L	P417604	
		Tebuconazole	0.48	U	ng/L	P417604	
		Terbufos	0.096	U	ng/L	P417604	
		Terbuthylazine	0.41	U	ng/L	P417604	
		Thiobencarb	0.57	U	ng/L	P417604	
		Triadimefon	0.24	U	ng/L	P417604	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417588

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417609

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	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: P417609

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	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 350.1 Rev. 2.0
Batch ID: P418327

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417572

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417820

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417788

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

Reference Method: EPA 8270E

Batch ID: P417604

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

Component	Result	Code	Units
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

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

Reference Method: EPA 8270E

Batch ID: P417747

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417747

Component	Result	Code	Units
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417747

Component	Result	Code	Units
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
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: P417747

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: P417520

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P417520

Component	Result	Code	Units
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P417606

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

Reference Method: EPA 8321B

Batch ID: P417651

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P417976

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 D-2011
Batch ID: P418105

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417978

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P417900

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P417588

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.4		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P417609

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	110		P	85 - 115
Magnesium	104		P	85 - 115
Strontium	104		P	85 - 115
Tin	103		P	85 - 115
Titanium	105		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417609

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	101		P	85 - 115
Beryllium	91.1		P	85 - 115
Cadmium	99.5		P	85 - 115
Chromium	99.6		P	85 - 115
Cobalt	98.4		P	85 - 115
Copper	97.5		P	85 - 115
Lead	93.0		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	98.0		P	85 - 115
Nickel	98.2		P	85 - 115
Selenium	99.0		P	85 - 115
Silver	95.9		P	85 - 115
Thallium	95.5		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P417572

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P417820

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417788

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

Reference Method: EPA 8270E

Batch ID: P417604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	73.2		P	50 - 150
Acetochlor	107		P	70 - 121
Alachlor	103		P	68 - 119
Ametryn	133		P	64 - 139
Atrazine	110		P	76 - 120
Atrazine Desethyl	87.2		P	44 - 126
Avobenzone	72.3		P	59 - 206
Azinphos Methyl	103		P	43 - 192
Azoxystrobin	146		P	36 - 224
Bromacil	82.1		P	52 - 121
Butylate	48.6		P	28 - 91.0
Caffeine	83.7		P	50 - 134
Carbophenothion	70.0		P	56 - 129
Carfentrazone Ethyl	105		P	60 - 141
Chlorfenapyr	66.8		P	56 - 115
Chlorpyrifos Ethyl	113		P	60 - 118
Chlorpyrifos Methyl	89.9		P	68 - 119
Coumaphos	45.4		P	18 - 250
Cyanazine	92.9		P	61 - 250
Cyprodinil	126		P	55 - 145
Demeton	115		P	30 - 159
Diazinon	110		P	70 - 123
Difenoconazole	118		P	49 - 204
Dimethenamid	75.9		P	64 - 115
Dimethomorph	113		P	12 - 219
Disulfoton	104		P	44 - 125
Dithiopyr	104		P	64 - 115
EPTC	58.0		P	28 - 86.0
Ethion	19.3		F	33 - 125
Ethoprop	112		P	64 - 116
Etridiazole	69.3		P	34 - 91.0
Fenamiphos	71.8		P	12 - 127
Fenbuconazole	78.6		P	59 - 151
Fipronil	98.9		P	67 - 129
Fipronil Desulfinyl	102		P	65 - 127
Fipronil Sulfide	93.8		P	61 - 116
Fipronil Sulfone	89.7		P	55 - 117
Fluazifop-P-butyl	104		P	62 - 127
Fludioxonil	65.1		P	62 - 128
Flumioxazin	60.6		P	33 - 250
Flutolanil	85.4		P	56 - 127
Fluxapyroxad	50.7		P	45 - 128
Fonofos	106		P	62 - 111
Hexazinone	87.7		P	46 - 139
Imazalil	70.8		P	38 - 142
Iprodione	71.5		P	47 - 135

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P417604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Loratadine	218		P	10 - 244
Malathion	104		P	61 - 139
Metalaxyl	102		P	10 - 119
Metolachlor	88.0		P	65 - 118
Metribuzin	112		P	51 - 250
Mevinphos	94.2		P	53 - 121
Molinate	67.0		P	42 - 96.0
Myclobutanil	88.1		P	55 - 128
Naled	65.7		P	10 - 98.0
Napropamide	52.4		P	49 - 121
Norflurazon	80.7		P	61 - 126
Octinoxate	85.6		P	25 - 150
Oxadiazon	90.6		P	59 - 116
Oxybenzone	82.7		P	59 - 147
Oxyfluorfen	96.8		P	64 - 137
Parathion Ethyl	104		P	70 - 112
Parathion Methyl	133		P	76 - 133
PBDE-47	64.2		P	50 - 150
PBDE-99	59.1		P	50 - 150
Pendimethalin	103		P	52 - 117
Phenytol	15.2		P	10 - 199
Phorate	104		P	48 - 121
Prodiamine	50.3		P	26 - 142
Prometon	80.9		P	43 - 123
Prometryn	112		P	66 - 127
Pronamide	115		P	75 - 121
Propanil	93.0		P	45 - 150
Propargite	35.4		F	42 - 208
Propiconazole	81.8		P	60 - 125
Pyraflufen Ethyl	75.1		P	70 - 138
Pyridaben	79.8		P	35 - 245
Pyriproxyfen	33.6		P	30 - 149
Simazine	95.4		P	72 - 125
Stirophos	29.2		P	29 - 164
Sulfentrazone	84.1		P	21 - 139
Tebuconazole	20.0		P	10 - 115
Terbufos	114		P	60 - 123
Terbuthylazine	107		P	72 - 115
Thiobencarb	81.2		P	31 - 139
Tri-o-cresyl Phosphate	78.7		P	50 - 150
Triadimefon	82.8		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P417747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.7		P	10 - 92.0
Alpha-BHC	88.5		P	75 - 107
Alpha-Chlordane	64.5		P	50 - 108
Beta-BHC	110		P	36 - 138
Beta-Cyfluthrin	63.0		P	20 - 161
Bifenthrin	40.0		P	10 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P417747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorothalonil	91.7		P	26 - 186
Cis-Nonachlor	76.4		P	42 - 119
Cypermethrin	59.8		P	22 - 150
Dacthal	88.7		P	72 - 119
DDD-p,p'	76.8		P	45 - 107
DDE-p,p'	74.5		P	48 - 106
DDT-p,p'	69.7		P	48 - 110
Delta-BHC	125		P	54 - 140
Deltamethrin	73.5		P	22 - 189
Dichlobenil	93.9		P	36 - 117
Dicofol	82.3		P	46 - 155
Dieldrin	77.5		P	54 - 110
Endosulfan I	75.2		P	59 - 105
Endosulfan II	67.0		P	51 - 118
Endosulfan Sulfate	79.0		P	57 - 121
Endrin	73.8		P	10 - 120
Endrin Aldehyde	83.3		P	34 - 118
Endrin Ketone	105		P	69 - 177
Esfenvalerate	57.4		P	23 - 168
Ethalfuralin	67.2		P	49 - 99.0
Fenpropathrin	63.6		P	34 - 117
Gamma-BHC	105		P	72 - 117
Gamma-Chlordane	69.2		P	43 - 106
Heptachlor	64.9		P	41 - 98.0
Heptachlor Epoxide	73.3		P	57 - 106
Hexachlorobenzene	68.9		P	36 - 99.0
Kepone	38.4		P	16 - 215
Lambda-Cyhalothrin	46.0		P	21 - 177
Methoprene	42.7		P	10 - 119
Methoxychlor	82.6		P	60 - 112
MGK-264	80.3		P	26 - 122
Mirex	46.2		P	10 - 169
Oxychlordane	66.4		P	43 - 105
PCB-1016	84.2		P	48 - 112
PCB-1260	85.9		P	44 - 118
Permethrin	60.6		P	24 - 148
Phenothrin	40.9		P	10 - 106
Piperonyl Butoxide	97.0		P	10 - 139
Prallethrin	84.3		P	17 - 109
Tau-Fluvalinate	49.1		P	13 - 131
Tetramethrin	78.6		P	10 - 132
Trans-Nonachlor	64.3		P	44 - 106
Triclosan Methyl	74.6		P	59 - 109
Trifluralin	67.7		P	44 - 101

Reference Method: EPA 8276
Batch ID: P417747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	99.0		P	61 - 116
Toxaphene	98.1		P	48 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P417520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.6		P	40 - 150
AMPA	111		P	40 - 150
Endothall	90.8		P	40 - 150
Glufosinate	111		P	40 - 150
Glyphosate	110		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	101		P	40 - 150
2,4,5-T	100		P	40 - 150
Acetaminophen	34.6		P	30 - 150
Acetamiprid	88.1		P	40 - 150
Afidopyropen	76.3		P	30 - 150
Bentazon	102		P	30 - 150
Benzovindiflupyr	94.5		P	40 - 150
Carbamazepine	101		P	40 - 150
Clothianidin	98.8		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	89.5		P	40 - 150
Fenuron	96.6		P	40 - 150
Fluridone	100		P	40 - 150
Hydrocodone	96.5		P	40 - 150
Ibuprofen	87.3		P	40 - 150
Imazapyr	114		P	40 - 150
Imidacloprid	106		P	40 - 150
Linuron	88.6		P	40 - 150
Mandestrobin	97.8		P	40 - 150
MCPP	106		P	40 - 150
Naproxen	73.4		P	40 - 150
Primidone	98.5		P	40 - 150
Pyraclostrobin	90.1		P	40 - 150
Silvex	97.5		P	40 - 150
Thiamethoxam	104		P	40 - 150
Tolfenpyrad	54.1		P	30 - 150
Triclopyr	85.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	101		P	40 - 150
Aldicarb	56.9		P	30 - 150
Aldicarb Sulfone	110		P	40 - 150
Aldicarb Sulfoxide	88.2		P	40 - 150
Carbaryl	98.3		P	40 - 150
Carbofuran	88.1		P	40 - 150
Methiocarb	93.4		P	40 - 150
Methomyl	89.3		P	40 - 150
Oxamyl	98.7		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P417651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propoxur	92.0		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P417976

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P417978

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

Reference Method: SM 5310 B-2011
Batch ID: P417900

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P417609

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345651	Iron	105	98.6	P/P	70 - 130
2345651	Tin	93.1	86.8	P/P	70 - 130
2345651	Titanium	109	104	P/P	70 - 130
2345651	Vanadium	103	95.9	P/P	70 - 130
2345651	Zinc	102	96.3	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417609

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345651	Aluminum	101	99.3	P/P	70 - 130
2345651	Antimony	101	100	P/P	70 - 130
2345651	Arsenic	112	110	P/P	70 - 130
2345651	Beryllium	97.5	97.7	P/P	70 - 130
2345651	Cadmium	95.8	98.0	P/P	70 - 130
2345651	Chromium	84.8	83.4	P/P	70 - 130
2345651	Cobalt	106	106	P/P	70 - 130
2345651	Copper	97.4	97.4	P/P	70 - 130
2345651	Lead	97.3	96.5	P/P	70 - 130
2345651	Manganese	93.6	93.2	P/P	70 - 130
2345651	Molybdenum	111	109	P/P	70 - 130
2345651	Nickel	105	106	P/P	70 - 130
2345651	Selenium	99.9	99.2	P/P	70 - 130
2345651	Silver	87.9	85.6	P/P	70 - 130
2345651	Thallium	99.9	99.4	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346095	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P417572

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344651	Kjeldahl Nitrogen	97.1	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P417820

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345441	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345734	Total-P	99.6	97.4	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345169	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.7	91.9	P/P	50 - 150
2345169	Acetochlor	111	101	P/P	65 - 124
2345169	Alachlor	99.2	90.5	P/P	61 - 121
2345169	Ametryn	115	103	P/P	52 - 216
2345169	Atrazine Desethyl	70.2	67.2	P/P	15 - 160
2345169	Avobenzone	85.2	90.0	P/P	59 - 206
2345169	Azinphos Methyl	114	101	P/P	40 - 292
2345169	Azoxystrobin	144	129	P/P	12 - 242
2345169	Bromacil	81.3	72.2	P/P	54 - 167
2345169	Butylate	50.3	52.5	P/P	14 - 94.0
2345169	Caffeine	92.7	87.4	P/P	10 - 226
2345169	Carbophenothion	72.0	70.1	P/P	49 - 122
2345169	Carfentrazone Ethyl	105	90.8	P/P	53 - 138
2345169	Chlorfenapyr	74.1	60.5	P/P	50 - 150
2345169	Chlorpyrifos Ethyl	93.6	83.4	P/P	52 - 122
2345169	Chlorpyrifos Methyl	99.0	94.6	P/P	66 - 117
2345169	Coumaphos	68.8	60.6	P/P	50 - 220
2345169	Cyanazine	116	106	P/P	43 - 245
2345169	Cyprodinil	108	94.4	P/P	50 - 150
2345169	Demeton	123	115	P/P	43 - 188
2345169	Diazinon	104	102	P/P	69 - 131
2345169	Difenoconazole	158	151	P/P	34 - 231
2345169	Dimethenamid	84.5	77.9	P/P	55 - 118
2345169	Dimethomorph	126	113	P/P	50 - 150
2345169	Disulfoton	109	96.8	P/P	38 - 141
2345169	Dithiopyr	104	94.3	P/P	42 - 116
2345169	EPTC	54.3	55.5	P/P	18 - 85.0
2345169	Ethion	44.9	45.9	P/P	10 - 131
2345169	Ethoprop	113	107	P/P	65 - 129
2345169	Etridiazole	66.0	62.2	P/P	50 - 150
2345169	Fenamiphos	72.1	81.1	P/P	31 - 137
2345169	Fenbuconazole	92.2	83.8	P/P	57 - 160
2345169	Fipronil	100	92.0	P/P	62 - 132
2345169	Fipronil Desulfinyl	111	99.1	P/P	57 - 131
2345169	Fipronil Sulfide	95.1	91.6	P/P	15 - 138
2345169	Fipronil Sulfone	79.2	69.3	P/P	21 - 134
2345169	Fluazifop-P-butyl	104	90.7	P/P	54 - 133
2345169	Fludioxonil	92.2	77.7	P/P	58 - 127
2345169	Flumioxazin	114	106	P/P	33 - 300
2345169	Flutolanil	107	94.6	P/P	42 - 130
2345169	Fluxapyroxad	80.2	76.4	P/P	23 - 141
2345169	Fonofos	102	96.6	P/P	58 - 119
2345169	Hexazinone	106	96.3	P/P	68 - 172
2345169	Imazalil	87.5	91.4	P/P	48 - 283
2345169	Iprodione	85.5	78.9	P/P	38 - 140
2345169	Loratadine	160	143	F/P	50 - 150
2345169	Malathion	119	108	P/P	40 - 137
2345169	Metalaxyl	99.6	91.3	P/P	21 - 129
2345169	Metolachlor	102	98.4	P/P	55 - 122
2345169	Metribuzin	113	104	P/P	38 - 187
2345169	Mevinphos	95.6	91.1	P/P	54 - 134
2345169	Molinate	69.1	68.0	P/P	41 - 97.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345169	Myclobutanil	106	89.6	P/P	56 - 125
2345169	Naled	74.1	78.8	P/P	10 - 108
2345169	Napropamide	70.8	68.6	P/P	50 - 150
2345169	Norflurazon	87.3	85.4	P/P	32 - 122
2345169	Octinoxate	84.1	84.3	P/P	25 - 150
2345169	Oxadiazon	85.4	82.4	P/P	40 - 119
2345169	Oxybenzone	77.4	85.7	P/P	59 - 147
2345169	Oxyfluorfen	101	99.7	P/P	61 - 153
2345169	Parathion Ethyl	101	98.4	P/P	59 - 130
2345169	Parathion Methyl	138	127	P/P	65 - 155
2345169	PBDE-47	75.6	75.6	P/P	50 - 150
2345169	PBDE-99	73.1	74.7	P/P	50 - 150
2345169	Pendimethalin	104	99.4	P/P	49 - 138
2345169	Phenytoin	28.9	28.6	F/F	50 - 200
2345169	Phorate	83.1	84.5	P/P	54 - 161
2345169	Prodiamine	56.6	47.4	P/P	33 - 161
2345169	Prometon	90.9	86.0	P/P	48 - 140
2345169	Prometryn	108	96.2	P/P	55 - 134
2345169	Pronamide	126	116	P/P	66 - 137
2345169	Propanil	102	92.6	P/P	50 - 150
2345169	Propargite	57.0	55.9	P/P	50 - 200
2345169	Propiconazole	92.1	84.4	P/P	36 - 150
2345169	Pyraflufen Ethyl	88.7	78.0	P/P	50 - 150
2345169	Pyridaben	75.3	66.8	P/P	50 - 200
2345169	Pyriproxyfen	66.4	69.4	P/P	10 - 165
2345169	Simazine	104	95.3	P/P	57 - 145
2345169	Stirophos	50.9	53.4	P/P	50 - 150
2345169	Sulfentrazone	89.3	80.4	P/P	34 - 140
2345169	Tebuconazole	46.1	44.5	P/P	10 - 127
2345169	Terbufos	130	118	P/P	59 - 138
2345169	Terbutylazine	104	93.8	P/P	68 - 119
2345169	Thiobencarb	93.0	85.8	P/P	50 - 150
2345169	Tri-o-cresyl Phosphate	81.1	80.1	P/P	50 - 150
2345169	Triadimefon	97.5	90.3	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P417747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345548	Aldrin	55.4	60.9	P/P	20 - 82.0
2345548	Alpha-BHC	91.1	88.4	P/P	71 - 109
2345548	Alpha-Chlordane	62.8	58.9	P/P	42 - 106
2345548	Beta-BHC	98.8	111	P/P	69 - 180
2345548	Beta-Cyfluthrin	89.7	125	P/P	18 - 175
2345548	Bifenthrin	77.1	79.3	P/P	21 - 128
2345548	Chlorothalonil	95.4	152	P/P	10 - 300
2345548	Cis-Nonachlor	69.9	85.6	P/P	34 - 106
2345548	Cypermethrin	83.9	108	P/P	22 - 158
2345548	Dacthal	94.8	93.9	P/P	54 - 116
2345548	DDD-p,p'	56.6	75.8	P/P	34 - 107
2345548	DDE-p,p'	60.9	62.5	P/P	33 - 110
2345548	DDT-p,p'	76.2	64.6	P/P	50 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P417747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345548	Delta-BHC	117	142	P/P	77 - 193
2345548	Deltamethrin	100	126	P/P	10 - 195
2345548	Dichlobenil	68.1	69.3	P/P	25 - 113
2345548	Dicofol	97.8	97.2	P/P	38 - 247
2345548	Dieldrin	72.0	76.9	P/P	45 - 118
2345548	Endosulfan I	73.1	81.2	P/P	51 - 106
2345548	Endosulfan II	63.4	79.8	P/P	37 - 122
2345548	Endosulfan Sulfate	76.2	94.7	P/P	43 - 132
2345548	Endrin	71.5	85.8	P/P	29 - 101
2345548	Endrin Aldehyde	64.3	71.4	P/P	19 - 110
2345548	Endrin Ketone	86.2	108	P/P	60 - 140
2345548	Esfenvalerate	81.6	118	P/P	26 - 199
2345548	Ethalfuralin	72.7	78.5	P/P	45 - 99.0
2345548	Fenpropathrin	86.9	91.2	P/P	35 - 120
2345548	Gamma-BHC	100	102	P/P	63 - 128
2345548	Gamma-Chlordane	69.8	65.8	P/P	40 - 104
2345548	Heptachlor	67.3	67.0	P/P	36 - 97.0
2345548	Heptachlor Epoxide	83.6	84.8	P/P	49 - 184
2345548	Hexachlorobenzene	77.9	62.6	P/P	39 - 96.0
2345548	Kepone	34.2	51.9	P/P	10 - 217
2345548	Lambda-Cyhalothrin	76.6	92.7	P/P	21 - 193
2345548	Methoprene	56.9	65.5	P/P	20 - 106
2345548	Methoxychlor	92.7	88.0	P/P	53 - 118
2345548	MGK-264	85.5	95.5	P/P	40 - 118
2345548	Mirex	53.6	57.7	P/P	26 - 92.0
2345548	Oxychlordane	79.6	72.9	P/P	44 - 99.0
2345548	Permethrin	82.4	104	P/P	33 - 182
2345548	Phenothrin	68.6	91.9	P/P	10 - 129
2345548	Piperonyl Butoxide	112	126	P/P	10 - 211
2345548	Prallethrin	80.6	95.1	P/P	24 - 113
2345548	Tau-Fluvalinate	77.7	66.5	P/P	14 - 149
2345548	Tetramethrin	83.0	122	P/P	17 - 151
2345548	Trans-Nonachlor	73.5	69.6	P/P	42 - 102
2345548	Triclosan Methyl	78.5	69.8	P/P	48 - 108
2345548	Trifluralin	74.6	74.2	P/P	47 - 96.0
2345564	PCB-1016	86.5	87.1	P/P	46 - 111
2345564	PCB-1260	84.3	82.1	P/P	45 - 114

Reference Method: EPA 8276
Batch ID: P417747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345564	Chlordane	108	101	P/P	53 - 126
2345564	Toxaphene	126	120	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P417520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	Acesulfame K	82.1	84.5	P/P	40 - 150
2345138	AMPA	45.2	43.7	P/P	40 - 150
2345138	Endothall	94.2	97.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P417520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	Glufosinate	50.5	48.2	P/P	40 - 150
2345138	Glyphosate	64.2	68.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	2,4-D	86.4	81.9	P/P	40 - 150
2345138	2,4,5-T	72.1	70.0	P/P	40 - 150
2345138	Acetaminophen	34.7	40.0	P/P	30 - 150
2345138	Acetamiprid	75.5	86.4	P/P	40 - 150
2345138	Afidopyropen	85.9	92.4	P/P	30 - 150
2345138	Benzovindiflupyr	94.4	96.5	P/P	40 - 150
2345138	Clothianidin	105	90.5	P/P	40 - 150
2345138	Diuron	72.0	80.8	P/P	40 - 150
2345138	Fenuron	88.1	86.2	P/P	40 - 150
2345138	Fluridone	101	94.4	P/P	40 - 150
2345138	Hydrocodone	104	99.8	P/P	40 - 150
2345138	Ibuprofen	89.7	96.0	P/P	40 - 150
2345138	Imazapyr	64.5	59.9	P/P	40 - 150
2345138	Linuron	121	124	P/P	40 - 150
2345138	Mandestrobin	94.8	92.2	P/P	40 - 150
2345138	MCCP	88.0	81.3	P/P	40 - 150
2345138	Naproxen	53.4	65.6	P/P	40 - 150
2345138	Pyraclostrobin	94.0	92.0	P/P	40 - 150
2345138	Silvex	98.1	90.4	P/P	40 - 150
2345138	Thiamethoxam	134	141	P/P	40 - 150
2345138	Tolfenpyrad	59.7	56.4	P/P	30 - 150
2345138	Triclopyr	75.0	69.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345134	3-Hydroxycarbofuran	109	118	P/P	40 - 150
2345134	Aldicarb	70.4	58.0	P/P	30 - 150
2345134	Aldicarb Sulfone	127	134	P/P	40 - 150
2345134	Aldicarb Sulfoxide	39.7	46.5	F/P	40 - 150
2345134	Carbaryl	75.1	68.6	P/P	40 - 150
2345134	Carbofuran	80.0	81.1	P/P	40 - 150
2345134	Methiocarb	87.0	78.0	P/P	40 - 150
2345134	Methomyl	80.7	80.4	P/P	40 - 150
2345134	Oxamyl	97.4	97.1	P/P	40 - 150
2345134	Propoxur	72.9	72.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P417978

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345625	Fluoride	98.4	99.3	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P417900

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345626	Organic Carbon	87.4	88.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P417588

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345340	Turbidity	1.54	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P417609

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345651	Calcium	2.46	Spike	P	0 - 20
2345651	Iron	5.88	Spike	P	0 - 20
2345651	Magnesium	7.61	Spike	P	0 - 20
2345651	Strontium	4.52	Spike	P	0 - 20
2345651	Tin	5.64	Spike	P	0 - 20
2345651	Titanium	4.98	Spike	P	0 - 20
2345651	Vanadium	6.86	Spike	P	0 - 20
2345651	Zinc	5.81	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417609

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345651	Aluminum	1.54	Spike	P	0 - 20
2345651	Antimony	1.13	Spike	P	0 - 20
2345651	Arsenic	1.86	Spike	P	0 - 20
2345651	Beryllium	0.172	Spike	P	0 - 20
2345651	Cadmium	2.22	Spike	P	0 - 20
2345651	Chromium	1.68	Spike	P	0 - 20
2345651	Cobalt	0.0238	Spike	P	0 - 20
2345651	Copper	0.00546	Spike	P	0 - 20
2345651	Lead	0.842	Spike	P	0 - 20
2345651	Manganese	0.288	Spike	P	0 - 20
2345651	Molybdenum	1.58	Spike	P	0 - 20
2345651	Nickel	0.561	Spike	P	0 - 20
2345651	Selenium	0.744	Spike	P	0 - 20
2345651	Silver	2.58	Spike	P	0 - 20
2345651	Thallium	0.451	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418327

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346095	Ammonia-N	1.06	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P417572

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344651	Kjeldahl Nitrogen	3.77	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P417820

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345441	NO2NO3-N	0.464	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417788

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345734	Total-P	2.20	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P417604

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	0.160	Spike	P	0 - 30
2345169	Acetochlor	9.24	Spike	P	0 - 27
2345169	Alachlor	9.17	Spike	P	0 - 27
2345169	Ametryn	10.5	Spike	P	0 - 34
2345169	Atrazine	5.61	Spike	P	0 - 41
2345169	Atrazine Desethyl	3.43	Spike	P	0 - 38
2345169	Avobenzone	5.39	Spike	P	0 - 30
2345169	Azinphos Methyl	12.0	Spike	P	0 - 62
2345169	Azoxystrobin	9.49	Spike	P	0 - 32
2345169	Bromacil	11.9	Spike	P	0 - 30
2345169	Butylate	4.32	Spike	P	0 - 59
2345169	Caffeine	5.87	Spike	P	0 - 60
2345169	Carbophenothion	2.69	Spike	P	0 - 25
2345169	Carfentrazone Ethyl	14.2	Spike	P	0 - 26
2345169	Chlorfenapyr	20.2	Spike	P	0 - 30
2345169	Chlorpyrifos Ethyl	11.5	Spike	P	0 - 27
2345169	Chlorpyrifos Methyl	4.49	Spike	P	0 - 26
2345169	Coumaphos	12.8	Spike	P	0 - 30
2345169	Cyanazine	9.05	Spike	P	0 - 58
2345169	Cyprodinil	13.5	Spike	P	0 - 30
2345169	Demeton	6.18	Spike	P	0 - 25
2345169	Diazinon	2.05	Spike	P	0 - 29
2345169	Difenoconazole	4.64	Spike	P	0 - 25
2345169	Dimethenamid	8.08	Spike	P	0 - 30
2345169	Dimethomorph	11.5	Spike	P	0 - 30
2345169	Disulfoton	11.5	Spike	P	0 - 33
2345169	Dithiopyr	10.1	Spike	P	0 - 22
2345169	EPTC	2.15	Spike	P	0 - 38
2345169	Ethion	2.16	Spike	P	0 - 79
2345169	Ethoprop	6.21	Spike	P	0 - 23
2345169	Etridiazole	5.79	Spike	P	0 - 30
2345169	Fenamiphos	11.7	Spike	P	0 - 58
2345169	Fenbuconazole	9.49	Spike	P	0 - 37
2345169	Fipronil	8.47	Spike	P	0 - 33
2345169	Fipronil Desulfinyl	10.1	Spike	P	0 - 26
2345169	Fipronil Sulfide	3.74	Spike	P	0 - 37
2345169	Fipronil Sulfone	11.7	Spike	P	0 - 50

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P417604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	Fluazifop-P-butyl	13.9	Spike	P	0 - 24
2345169	Fludioxonil	17.0	Spike	P	0 - 26
2345169	Flumioxazin	6.72	Spike	P	0 - 37
2345169	Flutolanil	12.5	Spike	P	0 - 26
2345169	Fluxapyroxad	4.86	Spike	P	0 - 34
2345169	Fonofos	5.14	Spike	P	0 - 27
2345169	Hexazinone	9.39	Spike	P	0 - 36
2345169	Imazalil	4.31	Spike	P	0 - 65
2345169	Iprodione	8.09	Spike	P	0 - 33
2345169	Loratadine	11.1	Spike	P	0 - 30
2345169	Malathion	9.73	Spike	P	0 - 44
2345169	Metalaxyl	8.74	Spike	P	0 - 38
2345169	Metolachlor	3.92	Spike	P	0 - 36
2345169	Metribuzin	8.07	Spike	P	0 - 63
2345169	Mevinphos	4.84	Spike	P	0 - 26
2345169	Molinate	1.47	Spike	P	0 - 40
2345169	Myclobutanil	16.7	Spike	P	0 - 21
2345169	Naled	6.08	Spike	P	0 - 26
2345169	Napropamide	3.12	Spike	P	0 - 30
2345169	Norflurazon	2.17	Spike	P	0 - 24
2345169	Octinoxate	0.219	Spike	P	0 - 30
2345169	Oxadiazon	2.86	Spike	P	0 - 27
2345169	Oxybenzone	10.1	Spike	P	0 - 30
2345169	Oxyfluorfen	1.44	Spike	P	0 - 24
2345169	Parathion Ethyl	2.56	Spike	P	0 - 28
2345169	Parathion Methyl	8.03	Spike	P	0 - 27
2345169	PBDE-47	0.0498	Spike	P	0 - 30
2345169	PBDE-99	2.15	Spike	P	0 - 30
2345169	Pendimethalin	4.91	Spike	P	0 - 31
2345169	Phenytoin	0.778	Spike	P	0 - 30
2345169	Phorate	1.75	Spike	P	0 - 27
2345169	Prodiamine	17.7	Spike	P	0 - 52
2345169	Prometon	5.51	Spike	P	0 - 31
2345169	Prometryn	11.6	Spike	P	0 - 28
2345169	Pronamide	8.67	Spike	P	0 - 26
2345169	Propanil	9.92	Spike	P	0 - 30
2345169	Propargite	1.96	Spike	P	0 - 30
2345169	Propiconazole	8.77	Spike	P	0 - 31
2345169	Pyraflufen Ethyl	12.8	Spike	P	0 - 30
2345169	Pyridaben	7.74	Spike	P	0 - 30
2345169	Pyriproxyfen	4.40	Spike	P	0 - 50
2345169	Simazine	8.71	Spike	P	0 - 29
2345169	Stirophos	4.76	Spike	P	0 - 30
2345169	Sulfentrazone	10.4	Spike	P	0 - 33
2345169	Tebuconazole	3.44	Spike	P	0 - 44
2345169	Terbufos	9.41	Spike	P	0 - 29
2345169	Terbuthylazine	10.5	Spike	P	0 - 27
2345169	Thiobencarb	8.05	Spike	P	0 - 30
2345169	Tri-o-cresyl Phosphate	1.27	Spike	P	0 - 30
2345169	Triadimefon	7.62	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P417747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345548	Aldrin	9.43	Spike	P	0 - 41
2345548	Alpha-BHC	2.91	Spike	P	0 - 25
2345548	Alpha-Chlordane	5.63	Spike	P	0 - 33
2345548	Beta-BHC	11.3	Spike	P	0 - 36
2345548	Beta-Cyfluthrin	33.3	Spike	P	0 - 42
2345548	Bifenthrin	2.83	Spike	P	0 - 53
2345548	Chlorothalonil	45.7	Spike	P	0 - 71
2345548	Cis-Nonachlor	20.2	Spike	P	0 - 29
2345548	Cypermethrin	25.1	Spike	P	0 - 40
2345548	Dacthal	0.913	Spike	P	0 - 26
2345548	DDD-p,p'	25.6	Spike	P	0 - 39
2345548	DDE-p,p'	2.15	Spike	P	0 - 33
2345548	DDT-p,p'	15.4	Spike	P	0 - 40
2345548	Delta-BHC	19.0	Spike	P	0 - 37
2345548	Deltamethrin	22.9	Spike	P	0 - 100
2345548	Dichlobenil	1.77	Spike	P	0 - 40
2345548	Dicofol	0.682	Spike	P	0 - 31
2345548	Dieldrin	5.38	Spike	P	0 - 27
2345548	Endosulfan I	10.6	Spike	P	0 - 23
2345548	Endosulfan II	22.8	Spike	P	0 - 28
2345548	Endosulfan Sulfate	21.7	Spike	P	0 - 38
2345548	Endrin	18.2	Spike	P	0 - 63
2345548	Endrin Aldehyde	10.4	Spike	P	0 - 60
2345548	Endrin Ketone	22.6	Spike	P	0 - 37
2345548	Esfenvalerate	36.5	Spike	P	0 - 52
2345548	Ethalfuralin	7.66	Spike	P	0 - 23
2345548	Fenpropathrin	4.91	Spike	P	0 - 32
2345548	Gamma-BHC	1.98	Spike	P	0 - 17
2345548	Gamma-Chlordane	5.38	Spike	P	0 - 40
2345548	Heptachlor	0.323	Spike	P	0 - 29
2345548	Heptachlor Epoxide	1.41	Spike	P	0 - 25
2345548	Hexachlorobenzene	21.7	Spike	P	0 - 36
2345548	Kepone	25.5	Spike	P	0 - 93
2345548	Lambda-Cyhalothrin	19.0	Spike	P	0 - 55
2345548	Methoprene	14.0	Spike	P	0 - 53
2345548	Methoxychlor	5.16	Spike	P	0 - 29
2345548	MGK-264	11.0	Spike	P	0 - 35
2345548	Mirex	7.44	Spike	P	0 - 46
2345548	Oxychlordane	8.87	Spike	P	0 - 29
2345548	Permethrin	22.9	Spike	P	0 - 44
2345548	Phenothrin	29.1	Spike	P	0 - 56
2345548	Piperonyl Butoxide	11.4	Spike	P	0 - 100
2345548	Prallethrin	16.5	Spike	P	0 - 42
2345548	Tau-Fluvalinate	15.6	Spike	P	0 - 54
2345548	Tetramethrin	38.1	Spike	P	0 - 51
2345548	Trans-Nonachlor	5.49	Spike	P	0 - 37
2345548	Triclosan Methyl	11.7	Spike	P	0 - 31
2345548	Trifluralin	0.508	Spike	P	0 - 30
2345564	PCB-1016	0.723	Spike	P	0 - 32
2345564	PCB-1260	2.61	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P417747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345564	Chlordane	6.89	Spike	P	0 - 25
2345564	Toxaphene	5.48	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P417520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345138	Acesulfame K	2.96	Spike	P	0 - 30
2345138	AMPA	3.37	Spike	P	0 - 30
2345138	Endothall	3.04	Spike	P	0 - 30
2345138	Glufosinate	4.69	Spike	P	0 - 30
2345138	Glyphosate	6.08	Spike	P	0 - 30
2345138	Sucralose	3.64	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P417606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345138	2,4-D	4.33	Spike	P	0 - 30
2345138	2,4,5-T	2.92	Spike	P	0 - 30
2345138	Acetaminophen	14.3	Spike	P	0 - 30
2345138	Acetamiprid	11.8	Spike	P	0 - 30
2345138	Afidopyropen	7.31	Spike	P	0 - 30
2345138	Bentazon	8.17	Spike	P	0 - 30
2345138	Benzovindiflupyr	2.26	Spike	P	0 - 30
2345138	Carbamazepine	0.0370	Spike	P	0 - 30
2345138	Clothianidin	10.3	Spike	P	0 - 30
2345138	Dinotefuran	2.10	Spike	P	0 - 30
2345138	Diuron	7.73	Spike	P	0 - 30
2345138	Fenuron	2.16	Spike	P	0 - 30
2345138	Fluridone	5.98	Spike	P	0 - 30
2345138	Hydrocodone	4.05	Spike	P	0 - 30
2345138	Ibuprofen	6.79	Spike	P	0 - 30
2345138	Imazapyr	4.66	Spike	P	0 - 30
2345138	Imidacloprid	3.20	Spike	P	0 - 30
2345138	Linuron	2.34	Spike	P	0 - 30
2345138	Mandestrobin	2.84	Spike	P	0 - 30
2345138	MCPP	7.82	Spike	P	0 - 30
2345138	Naproxen	20.5	Spike	P	0 - 30
2345138	Primidone	3.82	Spike	P	0 - 30
2345138	Pyraclostrobin	2.08	Spike	P	0 - 30
2345138	Silvex	8.17	Spike	P	0 - 30
2345138	Thiamethoxam	5.22	Spike	P	0 - 30
2345138	Tolfenpyrad	5.75	Spike	P	0 - 30
2345138	Triclopyr	7.03	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P417651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345134	3-Hydroxycarbofuran	8.12	Spike	P	0 - 30
2345134	Aldicarb	19.3	Spike	P	0 - 30
2345134	Aldicarb Sulfone	5.47	Spike	P	0 - 30
2345134	Aldicarb Sulfoxide	15.8	Spike	P	0 - 30
2345134	Carbaryl	9.13	Spike	P	0 - 30
2345134	Carbofuran	1.46	Spike	P	0 - 30
2345134	Methiocarb	10.9	Spike	P	0 - 30
2345134	Methomyl	0.384	Spike	P	0 - 30
2345134	Oxamyl	0.215	Spike	P	0 - 30
2345134	Propoxur	1.33	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P417976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345625	Total Alkalinity	0.348	Sample	P	0 - 3.8

Reference Method: SM 4500-F- C-2011
Batch ID: P417978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345625	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P417900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345626	Organic Carbon	1.16	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2345559
Field Sample ID: G3SE0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	65.6	P	30 - 160

Lab Sample ID: 2345560
Field Sample ID: G3SE0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	85.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	45.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	104	P	30 - 160
EPA 8321B	Diuron-d6	77.6	P	30 - 160
EPA 8321B	Endothall-d6	121	P	30 - 160
EPA 8321B	Endothall-d6	121	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	137	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.0	P	30 - 160
EPA 8321B	Primidone-d5	114	P	30 - 160
EPA 8321B	Sucralose-d6	114	P	30 - 160

Lab Sample ID: 2345561
Field Sample ID: G4SE0146

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	42.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.8	P	30 - 160
EPA 8321B	Diuron-d6	77.1	P	30 - 160
EPA 8321B	Endothall-d6	76.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.8	P	30 - 160
EPA 8321B	Primidone-d5	81.3	P	30 - 160
EPA 8321B	Sucralose-d6	85.6	P	30 - 160

Lab Sample ID: 2345562
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	32.1	P	30 - 160

Lab Sample ID: 2345563
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	43.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	104	P	30 - 160
EPA 8321B	Diuron-d6	89.8	P	30 - 160
EPA 8321B	Endothall-d6	115	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.8	P	30 - 160
EPA 8321B	Primidone-d5	118	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2345564
Field Sample ID: G3SE0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	85.1	P	29 - 130
EPA 8270E	Decachlorobiphenyl	85.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	71.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	54.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	69.2	P	30 - 101
EPA 8276	PCNB	87.9	P	48 - 121

Lab Sample ID: 2345565
Field Sample ID: G3SE0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	47.4	P	20 - 200
EPA 8270E	Simazine-d10	86.9	P	71 - 140
EPA 8270E	Terbufos-d10	86.7	P	62 - 131
EPA 8270E	Terphenyl-d14	61.3	P	52 - 141

Lab Sample ID: 2345566
Field Sample ID: G4SE0146

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	62.2	P	20 - 200
EPA 8270E	Simazine-d10	95.7	P	71 - 140
EPA 8270E	Terbufos-d10	93.7	P	62 - 131
EPA 8270E	Terphenyl-d14	79.6	P	52 - 141

Lab Sample ID: 2345567
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	89.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	66.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	61.2	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	62.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	66.8	P	30 - 101
EPA 8276	PCNB	82.5	P	48 - 121

Lab Sample ID: 2345568
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	54.6	P	20 - 200
EPA 8270E	Simazine-d10	86.4	P	71 - 140
EPA 8270E	Terbufos-d10	90.7	P	62 - 131
EPA 8270E	Terphenyl-d14	67.8	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113882

Included Lab Sample IDs: 2345553

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113918

Included Lab Sample IDs: 2345569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	100	102	P/P	90 - 110
Cobalt	100	102	P/P	90 - 110
Manganese	104	106	P/P	90 - 110
Nickel	100	102	P/P	90 - 110
Silver	97.3	97.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113922

Included Lab Sample IDs: 2345560, 2345561, 2345563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	107	99.5	P/P	50 - 150
2,4-D	99.5	95.1	P/P	50 - 150
2,4,5-T	111	94.3	P/P	50 - 150
2,4,5-T	94.3	100	P/P	50 - 150
Acetaminophen	100	101	P/P	60 - 160
Acetaminophen	101	98.0	P/P	60 - 160
Acetamiprid	101	88.1	P/P	50 - 150
Acetamiprid	88.1	100	P/P	50 - 150
Afidopyropen	114	91.4	P/P	50 - 150
Afidopyropen	91.4	96.3	P/P	50 - 150
Bentazon	99.3	99.3	P/P	50 - 160
Bentazon	99.3	93.6	P/P	50 - 160
Benzovindiflupyr	98.4	95.1	P/P	50 - 150
Benzovindiflupyr	98.6	98.4	P/P	50 - 150
Carbamazepine	103	104	P/P	60 - 150
Carbamazepine	104	110	P/P	60 - 150
Clothianidin	108	96.3	P/P	60 - 150
Clothianidin	108	108	P/P	60 - 150
Dinotefuran	102	101	P/P	50 - 150
Dinotefuran	105	102	P/P	50 - 150
Diuron	103	112	P/P	60 - 160
Diuron	112	96.9	P/P	60 - 160
Fenuron	97.2	98.3	P/P	60 - 150
Fenuron	98.3	96.3	P/P	60 - 150
Fluridone	108	112	P/P	60 - 160
Fluridone	112	104	P/P	60 - 160
Hydrocodone	101	101	P/P	60 - 150
Hydrocodone	95.1	101	P/P	60 - 150
Ibuprofen	114	78.2	P/P	50 - 160
Ibuprofen	78.2	74.7	P/P	50 - 160
Imazapyr	110	115	P/P	50 - 150
Imazapyr	113	110	P/P	50 - 150
Imidacloprid	95.9	99.1	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A113922

Included Lab Sample IDs: 2345560, 2345561, 2345563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	99.1	94.7	P/P	60 - 150
Linuron	104	95.6	P/P	60 - 150
Linuron	95.6	88.5	P/P	60 - 150
Mandestrobin	105	99.9	P/P	50 - 150
Mandestrobin	106	105	P/P	50 - 150
MCP	104	97.5	P/P	50 - 150
MCP	94.8	104	P/P	50 - 150
Naproxen	68.4	75.2	P/P	50 - 160
Naproxen	86.4	68.4	P/P	50 - 160
Primidone	96.4	104	P/P	60 - 150
Primidone	99.4	96.4	P/P	60 - 150
Pyraclostrobin	102	102	P/P	60 - 150
Pyraclostrobin	102	103	P/P	60 - 150
Silvex	83.5	89.1	P/P	50 - 150
Silvex	89.1	87.7	P/P	50 - 150
Thiamethoxam	102	100	P/P	50 - 150
Thiamethoxam	104	102	P/P	50 - 150
Tolfenpyrad	96.4	95.9	P/P	60 - 150
Tolfenpyrad	98.6	96.4	P/P	60 - 150
Triclopyr	78.8	81.1	P/P	50 - 150
Triclopyr	93.9	78.8	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113942

Included Lab Sample IDs: 2345569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	99.1	P/P	90 - 110
Iron	104	99.4	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Strontium	99.7	97.9	P/P	90 - 110
Tin	99.0	99.1	P/P	90 - 110
Titanium	102	100	P/P	90 - 110
Vanadium	101	100	P/P	90 - 110
Zinc	99.2	97.8	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113944

Included Lab Sample IDs: 2345569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	99.3	P/P	90 - 110
Antimony	97.9	98.1	P/P	90 - 110
Arsenic	102	102	P/P	90 - 110
Beryllium	97.3	103	P/P	90 - 110
Chromium	100	98.6	P/P	90 - 110
Copper	100	101	P/P	90 - 110
Lead	91.1	91.2	P/P	90 - 110
Molybdenum	97.7	97.4	P/P	90 - 110
Selenium	99.2	101	P/P	90 - 110
Thallium	92.2	92.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A113947

Included Lab Sample IDs: 2345560, 2345561, 2345563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	98.3	102	P/P	60 - 160
Sucralose	116	114	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113950

Included Lab Sample IDs: 2345560, 2345561, 2345563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	124	123	P/P	60 - 160
AMPA	126	124	P/P	60 - 160
Endothall	96.2	91.8	P/P	60 - 160
Endothall	98.4	99.8	P/P	60 - 160
Glufosinate	103	107	P/P	60 - 160
Glufosinate	117	103	P/P	60 - 160
Glyphosate	110	117	P/P	60 - 160
Glyphosate	118	118	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113978

Included Lab Sample IDs: 2345559, 2345562

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	73.8	81.1	P/P	60 - 150
Aldicarb	70.6	73.2	P/P	60 - 150
Aldicarb Sulfone	61.3	69.9	P/P	50 - 150
Aldicarb Sulfoxide	70.6	78.0	P/P	50 - 150
Carbaryl	71.7	81.0	P/P	60 - 150
Carbofuran	67.0	72.8	P/P	50 - 150
Methiocarb	70.8	76.6	P/P	50 - 150
Methomyl	79.6	82.6	P/P	50 - 150
Oxamyl	86.3	89.7	P/P	50 - 150
Propoxur	72.9	83.4	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113985

Included Lab Sample IDs: 2345554

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113990

Included Lab Sample IDs: 2345554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.9	90.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113993

Included Lab Sample IDs: 2345565, 2345566, 2345568

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.3		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	95.7		P	80 - 120
Atrazine Desethyl	95.1		P	80 - 120
Azinphos Methyl	108		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	90.0		P	80 - 120
Butylate	98.3		P	80 - 120
Caffeine	109		P	80 - 120
Carbophenothion	110		P	80 - 120
Carfentrazone Ethyl	95.6		P	80 - 120
Chlorfenapyr	107		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	111		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	92.8		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	114		P	80 - 120
Diazinon	98.9		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	95.8		P	80 - 120
Dimethomorph	85.9		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	99.2		P	80 - 120
EPTC	98.9		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	98.3		P	80 - 120
Etridiazole	96.0		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	95.7		P	80 - 120
Fipronil	93.1		P	80 - 120
Fipronil Desulfinyl	93.6		P	80 - 120
Fipronil Sulfide	96.2		P	80 - 120
Fipronil Sulfone	94.2		P	80 - 120
Fluazifop-P-butyl	99.5		P	80 - 120
Fludioxonil	91.5		P	80 - 120
Flumioxazin	91.3		P	80 - 120
Flutolanil	98.3		P	80 - 120
Fluxapyroxad	92.5		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	100		P	80 - 120
Iprodione	90.4		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	95.7		P	80 - 120
Metalaxyl	95.5		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	89.6		P	80 - 120
Mevinphos	90.3		P	80 - 120
Molinate	95.1		P	80 - 120
Myclobutanil	94.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113993

Included Lab Sample IDs: 2345565, 2345566, 2345568

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naled	110		P	80 - 120
Napropamide	96.5		P	80 - 120
Norflurazon	93.7		P	80 - 120
Oxadiazon	100		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	97.0		P	80 - 120
Parathion Methyl	104		P	80 - 120
Pendimethalin	101		P	80 - 120
Phenytol	98.0		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	97.2		P	80 - 120
Prometryn	95.4		P	80 - 120
Pronamide	93.6		P	80 - 120
Propanil	92.9		P	80 - 120
Propargite	97.7		P	80 - 120
Propiconazole	94.0		P	80 - 120
Pyraflufen Ethyl	99.1		P	80 - 120
Pyridaben	96.9		P	80 - 120
Pyriproxyfen	97.2		P	80 - 120
Simazine	91.1		P	80 - 120
Stiophos	111		P	80 - 120
Sulfentrazone	92.6		P	80 - 120
Tebuconazole	95.6		P	80 - 120
Terbufos	107		P	80 - 120
Terbutylazine	98.8		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113994

Included Lab Sample IDs: 2345565, 2345566, 2345568

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.5		P	80 - 120
Avobenzone	101		P	80 - 120
Octinoxate	95.1		P	80 - 120
Oxybenzone	92.7		P	80 - 120
PBDE-47	96.0		P	80 - 120
PBDE-99	93.6		P	80 - 120
Tri-o-cresyl Phosphate	95.9		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113999

Included Lab Sample IDs: 2345565, 2345566, 2345568

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.2		P	80 - 120
Dimethenamid	99.7		P	80 - 120
Fluxapyroxad	98.3		P	80 - 120
Pendimethalin	96.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011
Run ID: A114005
Included Lab Sample IDs: 2345554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	94.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114026
Included Lab Sample IDs: 2345554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.2	96.8	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A114031
Included Lab Sample IDs: 2345553

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.8	99.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A114031
Included Lab Sample IDs: 2345553

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

Reference Method: EPA 8270E
Run ID: A114073
Included Lab Sample IDs: 2345567

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	106		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	93.5		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	102		P	80 - 120
Bifenthrin	97.3		P	80 - 120
Chlorothalonil	115		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	83.4		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	110		P	80 - 120
DDT-p,p'	99.3		P	80 - 120
Delta-BHC	120		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	92.9		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	109		P	80 - 120
Endosulfan I	109		P	80 - 120
Endosulfan II	99.0		P	80 - 120
Endosulfan Sulfate	99.3		P	80 - 120
Endrin	97.3		P	80 - 120
Endrin Aldehyde	112		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114073
Included Lab Sample IDs: 2345567

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Ketone	106		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	97.9		P	80 - 120
Fenpropathrin	108		P	80 - 120
Gamma-BHC	114		P	80 - 120
Gamma-Chlordane	118		P	80 - 120
Heptachlor	114		P	80 - 120
Heptachlor Epoxide	111		P	80 - 120
Hexachlorobenzene	97.5		P	80 - 120
Kepone	75.2*		F	80 - 120
Lambda-Cyhalothrin	97.5		P	80 - 120
Methoprene	106		P	80 - 120
Methoxychlor	97.0		P	80 - 120
MGK-264	106		P	80 - 120
Mirex	92.2		P	80 - 120
Oxychlordane	95.4		P	80 - 120
Permethrin	96.1		P	80 - 120
Phenothrin	91.5		P	80 - 120
Piperonyl Butoxide	96.2		P	80 - 120
Prallethrin	107		P	80 - 120
Tau-Fluvalinate	101		P	80 - 120
Tetramethrin	95.5		P	80 - 120
Trans-Nonachlor	105		P	80 - 120
Triclosan Methyl	97.4		P	80 - 120
Trifluralin	102		P	80 - 120

Reference Method: EPA 8276
Run ID: A114079
Included Lab Sample IDs: 2345564, 2345567

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114080
Included Lab Sample IDs: 2345564, 2345567

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.5		P	80 - 120
PCB-1260	97.1		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114147
Included Lab Sample IDs: 2345564

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.2		P	80 - 120
Alpha-BHC	97.9		P	80 - 120
Alpha-Chlordane	109		P	80 - 120
Beta-BHC	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114147
Included Lab Sample IDs: 2345564

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-Cyfluthrin	113		P	80 - 120
Bifenthrin	111		P	80 - 120
Cis-Nonachlor	114		P	80 - 120
Cypermethrin	113		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	106		P	80 - 120
DDE-p,p'	108		P	80 - 120
DDT-p,p'	98.9		P	80 - 120
Delta-BHC	105		P	80 - 120
Deltamethrin	109		P	80 - 120
Dichlobenil	94.4		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	98.3		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	109		P	80 - 120
Endosulfan Sulfate	109		P	80 - 120
Endrin	109		P	80 - 120
Endrin Aldehyde	99.1		P	80 - 120
Endrin Ketone	106		P	80 - 120
Esfenvalerate	100		P	80 - 120
Ethalfuralin	102		P	80 - 120
Fenpropathrin	110		P	80 - 120
Gamma-BHC	106		P	80 - 120
Gamma-Chlordane	99.7		P	80 - 120
Heptachlor	97.0		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	88.9		P	80 - 120
Lambda-Cyhalothrin	110		P	80 - 120
Methoprene	108		P	80 - 120
Methoxychlor	104		P	80 - 120
MGK-264	106		P	80 - 120
Mirex	109		P	80 - 120
Oxychlordane	109		P	80 - 120
Permethrin	111		P	80 - 120
Phenothrin	112		P	80 - 120
Piperonyl Butoxide	85.8		P	80 - 120
Prallethrin	93.2		P	80 - 120
Tau-Fluvalinate	113		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	114		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	97.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114176
Included Lab Sample IDs: 2345564

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorothalonil	119		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114189

Included Lab Sample IDs: 2345554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.9	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
EPA 180.1 Rev. 2.0	Turbidity	96.4				1.54	
EPA 200.7 Rev. 4.4	Calcium	104					2.46
	Iron	110	105	98.6			5.88
	Magnesium	104					7.61
	Strontium	104					4.52
	Tin	103	93.1	86.8			5.64
	Titanium	105	109	104			4.98
	Vanadium	103	103	95.9			6.86
	Zinc	102	102	96.3			5.81
EPA 200.8 Rev. 5.4	Aluminum	100	101	99.3			1.54
	Antimony	101	101	100			1.13
	Arsenic	101	112	110			1.86
	Beryllium	91.1	97.5	97.7			0.172
	Cadmium	99.5	95.8	98.0			2.22
	Chromium	99.6	84.8	83.4			1.68
	Cobalt	98.4	106	106			0.0238
	Copper	97.5	97.4	97.4			0.0054
	Lead	93.0	97.3	96.5			0.842
	Manganese	103	93.6	93.2			0.288
	Molybdenum	98.0	111	109			1.58
	Nickel	98.2	105	106			0.561
	Selenium	99.0	99.9	99.2			0.744
	Silver	95.9	87.9	85.6			2.58
	Thallium	95.5	99.9	99.4			0.451
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	101	102			1.06
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	97.1	102			3.77
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	101	101			0.464
EPA 365.1 Rev. 2.0	Total-P	105	99.6	97.4			2.20
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	73.2	91.7	91.9			0.160
	Acetochlor	107	111	101			9.24
	Alachlor	103	99.2	90.5			9.17
	Aldrin	50.7	55.4	60.9			9.43
	Alpha-BHC	88.5	91.1	88.4			2.91
	Alpha-Chlordane	64.5	62.8	58.9			5.63
	Ametryn	133	115	103			10.5
	Atrazine	110					5.61
	Atrazine Desethyl	87.2	70.2	67.2			3.43
	Avobenzone	72.3	85.2	90.0			5.39
	Azinphos Methyl	103	114	101			12.0
	Azoxystrobin	146	144	129			9.49
	Beta-BHC	110	98.8	111			11.3
	Beta-Cyfluthrin	63.0	89.7	125			33.3
	Bifenthrin	40.0	77.1	79.3			2.83
	Bromacil	82.1	81.3	72.2			11.9
	Butylate	48.6	50.3	52.5			4.32
	Caffeine	83.7	92.7	87.4			5.87
	Carbophenothion	70.0	72.0	70.1			2.69
	Carfentrazone Ethyl	105	90.8	105			14.2
	Chlorfenapyr	66.8	74.1	60.5			20.2
	Chlorothalonil	91.7	95.4	152			45.7
	Chlorpyrifos Ethyl	113	93.6	83.4			11.5
	Chlorpyrifos Methyl	89.9	99.0	94.6			4.49

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Cis-Nonachlor	76.4	69.9	85.6			20.2
	Coumaphos	45.4	68.8	60.6			12.8
	Cyanazine	92.9	116	106			9.05
	Cypermethrin	59.8	83.9	108			25.1
	Cyprodinil	126	108	94.4			13.5
	Dacthal	88.7	94.8	93.9			0.913
	DDD-p,p'	76.8	56.6	75.8			25.6
	DDE-p,p'	74.5	60.9	62.5			2.15
	DDT-p,p'	69.7	76.2	64.6			15.4
	Delta-BHC	125	117	142			19.0
	Deltamethrin	73.5	100	126			22.9
	Demeton	115	123	115			6.18
	Diazinon	110	104	102			2.05
	Dichlobenil	93.9	68.1	69.3			1.77
	Dicofol	82.3	97.8	97.2			0.682
	Dieldrin	77.5	72.0	76.9			5.38
	Difenoconazole	118	158	151			4.64
	Dimethenamid	75.9	84.5	77.9			8.08
	Dimethomorph	113	126	113			11.5
	Disulfoton	104	109	96.8			11.5
	Dithiopyr	104	104	94.3			10.1
	Endosulfan I	75.2	73.1	81.2			10.6
	Endosulfan II	67.0	63.4	79.8			22.8
	Endosulfan Sulfate	79.0	76.2	94.7			21.7
	Endrin	73.8	71.5	85.8			18.2
	Endrin Aldehyde	83.3	64.3	71.4			10.4
	Endrin Ketone	105	86.2	108			22.6
	EPTC	58.0	54.3	55.5			2.15
	Esfenvalerate	57.4	118	81.6			36.5
	Ethalfuralin	67.2	78.5	72.7			7.66
	Ethion	19.3	44.9	45.9			2.16
	Ethoprop	112	113	107			6.21
	Etridiazole	69.3	66.0	62.2			5.79
	Fenamiphos	71.8	72.1	81.1			11.7
	Fenbuconazole	78.6	92.2	83.8			9.49
	Fenpropathrin	63.6	91.2	86.9			4.91
	Fipronil	98.9	100	92.0			8.47
	Fipronil Desulfinyl	102	111	99.1			10.1
	Fipronil Sulfide	93.8	95.1	91.6			3.74
	Fipronil Sulfone	89.7	79.2	69.3			11.7
	Fluazifop-P-butyl	104	104	90.7			13.9
	Fludioxonil	65.1	92.2	77.7			17.0
	Flumioxazin	60.6	114	106			6.72
	Flutolanil	85.4	107	94.6			12.5
	Fluxapyroxad	50.7	80.2	76.4			4.86
	Fonofos	106	102	96.6			5.14
	Gamma-BHC	105	102	100			1.98
	Gamma-Chlordane	69.2	65.8	69.8			5.38
	Heptachlor	64.9	67.0	67.3			0.323
	Heptachlor Epoxide	73.3	84.8	83.6			1.41
	Hexachlorobenzene	68.9	62.6	77.9			21.7
	Hexazinone	87.7	106	96.3			9.39
	Imazalil	70.8	87.5	91.4			4.31
	Iprodione	71.5	85.5	78.9			8.09

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Kepone	38.4	51.9	34.2		25.5
	Lambda-Cyhalothrin	46.0	92.7	76.6		19.0
	Loratadine	218	160	143		11.1
	Malathion	104	119	108		9.73
	Metalaxyl	102	99.6	91.3		8.74
	Methoprene	42.7	65.5	56.9		14.0
	Methoxychlor	82.6	88.0	92.7		5.16
	Metolachlor	88.0	102	98.4		3.92
	Metribuzin	112	113	104		8.07
	Mevinphos	94.2	95.6	91.1		4.84
	MGK-264	80.3	95.5	85.5		11.0
	Mirex	46.2	57.7	53.6		7.44
	Molinate	67.0	69.1	68.0		1.47
	Myclobutanil	88.1	106	89.6		16.7
	Naled	65.7	74.1	78.8		6.08
	Napropamide	52.4	70.8	68.6		3.12
	Norflurazon	80.7	87.3	85.4		2.17
	Octinoxate	85.6	84.1	84.3		0.219
	Oxadiazon	90.6	85.4	82.4		2.86
	Oxybenzone	82.7	77.4	85.7		10.1
	Oxychlordane	66.4	72.9	79.6		8.87
	Oxyfluorfen	96.8	101	99.7		1.44
	Parathion Ethyl	104	101	98.4		2.56
	Parathion Methyl	133	138	127		8.03
	PBDE-47	64.2	75.6	75.6		0.0498
	PBDE-99	59.1	73.1	74.7		2.15
	PCB-1016	84.2	86.5	87.1		0.723
	PCB-1260	85.9	84.3	82.1		2.61
	Pendimethalin	103	104	99.4		4.91
	Permethrin	60.6	104	82.4		22.9
	Phenothrin	40.9	91.9	68.6		29.1
	Phenytol	15.2	28.9	28.6		0.778
	Phorate	104	83.1	84.5		1.75
	Piperonyl Butoxide	97.0	126	112		11.4
	Prallethrin	84.3	95.1	80.6		16.5
	Prodiamine	50.3	56.6	47.4		17.7
	Prometon	80.9	90.9	86.0		5.51
	Prometryn	112	108	96.2		11.6
	Pronamide	115	126	116		8.67
	Propanil	93.0	102	92.6		9.92
	Propargite	35.4	57.0	55.9		1.96
	Propiconazole	81.8	92.1	84.4		8.77
	Pyraflufen Ethyl	75.1	88.7	78.0		12.8
	Pyridaben	79.8	75.3	66.8		7.74
	Pyriproxyfen	33.6	66.4	69.4		4.40
	Simazine	95.4	104	95.3		8.71
	Stirophos	29.2	50.9	53.4		4.76
	Sulfentrazone	84.1	89.3	80.4		10.4
	Tau-Fluvalinate	49.1	66.5	77.7		15.6
	Tebuconazole	20.0	46.1	44.5		3.44
	Terbufos	114	130	118		9.41
	Terbutylazine	107	104	93.8		10.5
	Tetramethrin	78.6	122	83.0		38.1
	Thiobencarb	81.2	93.0	85.8		8.05

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Trans-Nonachlor	64.3	69.6	73.5			5.49
	Tri-o-cresyl Phosphate	78.7	81.1	80.1			1.27
	Triadimefon	82.8	97.5	90.3			7.62
	Triclosan Methyl	74.6	69.8	78.5			11.7
	Trifluralin	67.7	74.2	74.6			0.508
EPA 8276	Chlordane	99.0	108	101			6.89
	Toxaphene	98.1	126	120			5.48
EPA 8321B	2,4-D	101	86.4	81.9			4.33
	2,4,5-T	100	72.1	70.0			2.92
	3-Hydroxycarbofuran	101	109	118			8.12
	Acesulfame K	99.6	82.1	84.5			2.96
	Acetaminophen	34.6	34.7	40.0			14.3
	Acetamiprid	88.1	75.5	86.4			11.8
	Afidopyropen	76.3	85.9	92.4			7.31
	Aldicarb	56.9	70.4	58.0			19.3
	Aldicarb Sulfone	110	127	134			5.47
	Aldicarb Sulfoxide	88.2	39.7	46.5			15.8
	AMPA	111	45.2	43.7			3.37
	Bentazon	102					8.17
	Benzovindiflupyr	94.5	94.4	96.5			2.26
	Carbamazepine	101					0.0370
	Carbaryl	98.3	75.1	68.6			9.13
	Carbofuran	88.1	80.0	81.1			1.46
	Clothianidin	98.8	105	90.5			10.3
	Dinotefuran	102					2.10
	Diuron	89.5	72.0	80.8			7.73
	Endothall	90.8	94.2	97.1			3.04
	Fenuron	96.6	88.1	86.2			2.16
	Fluridone	100	101	94.4			5.98
	Glufosinate	111	50.5	48.2			4.69
	Glyphosate	110	64.2	68.3			6.08
	Hydrocodone	96.5	104	99.8			4.05
	Ibuprofen	87.3	89.7	96.0			6.79
	Imazapyr	114	64.5	59.9			4.66
	Imidacloprid	106					3.20
	Linuron	88.6	121	124			2.34
	Mandestrobin	97.8	94.8	92.2			2.84
	MCPP	106	88.0	81.3			7.82
	Methiocarb	93.4	87.0	78.0			10.9
	Methomyl	89.3	80.7	80.4			0.384
	Naproxen	73.4	53.4	65.6			20.5
	Oxamyl	98.7	97.4	97.1			0.215
	Primidone	98.5					3.82
	Propoxur	92.0	72.9	72.0			1.33
	Pyraclostrobin	90.1	94.0	92.0			2.08
	Silvex	97.5	98.1	90.4			8.17
	Sucralose	113					3.64
	Thiamethoxam	104	134	141			5.22
	Tolfenpyrad	54.1	59.7	56.4			5.75
	Triclopyr	85.0	75.0	69.9			7.03
SM 2320 B-2011	Total Alkalinity	99.1				0.348	
SM 4500-F- C-2011	Fluoride	101	98.4	99.3			0.470
SM 5310 B-2011	Organic Carbon	99.4	87.4	88.9			1.16

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2345553
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2345569
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2345569
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2345554
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2345554
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2345554
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2345554
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2345565, 2345566, 2345568
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2345564, 2345567
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2345565, 2345566, 2345568
EPA 8270E	PCBs in water matrices by GC/MS/MS	2345564, 2345567
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2345564, 2345567
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2345559, 2345562
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2345560, 2345561, 2345563
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2345553
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2345553
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2345553
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2345554

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	08/03/2022			08/03/2022 14:14	Khloe J Berg	2345553
EPA 200.7 Rev. 4.4	08/03/2022	08/04/2022 09:06	Mackenzie Hunt	08/06/2022 02:33	McKinley C Carter	2345569
	08/03/2022	08/04/2022 09:06	Mackenzie Hunt	08/06/2022 03:06	McKinley C Carter	2345569
EPA 200.8 Rev. 5.4	08/03/2022	08/04/2022 09:06	Mackenzie Hunt	08/04/2022 19:15	Alexander Thompson	2345569
	08/03/2022	08/04/2022 09:06	Mackenzie Hunt	08/05/2022 19:04	Alexander Thompson	2345569
EPA 350.1 Rev. 2.0	08/03/2022			08/18/2022 11:05	Ping Hua	2345554
EPA 351.2 Rev. 2.0	08/03/2022	08/04/2022 12:05	Samantha L Bates	08/09/2022 14:21	Samantha L Bates	2345554
EPA 353.2 Rev. 2.0	08/03/2022			08/09/2022 11:10	Beverly Y. Sanders	2345554
EPA 365.1 Rev. 2.0	08/03/2022	08/09/2022 09:37	Simonne.V. Calhoun	08/11/2022 10:35	Simonne.V. Calhoun	2345554
EPA 8270E	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 02:44	Michael Poppell	2345565
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 03:10	Michael Poppell	2345566
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 03:37	Michael Poppell	2345568
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 16:15	Lipi Saha	2345565
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 16:35	Lipi Saha	2345566
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 16:54	Lipi Saha	2345568
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 20:55	Michael Poppell	2345565
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 21:21	Michael Poppell	2345566
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 21:47	Michael Poppell	2345568
	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/10/2022 18:00	Vandana T. Nagar	2345567
	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/11/2022 23:17	Julie Wi	2345564
	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/12/2022 00:17	Julie Wi	2345567
	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/16/2022 18:11	Vandana T. Nagar	2345564
	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/18/2022 02:18	Vandana T. Nagar	2345564
EPA 8276	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/12/2022 03:07	Arthur Maknenko	2345564
	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/12/2022 04:58	Arthur Maknenko	2345567
EPA 8321B	08/03/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 13:06	Juyoung Kim	2345560
	08/03/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 13:27	Juyoung Kim	2345561
	08/03/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 14:08	Juyoung Kim	2345563
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 13:35	Umesh Chiluwal	2345560
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 13:48	Umesh Chiluwal	2345561
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 14:01	Umesh Chiluwal	2345563
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 21:10	Umesh Chiluwal	2345561
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 21:49	Umesh Chiluwal	2345560
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 05:17	Umesh Chiluwal	2345560
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 05:32	Umesh Chiluwal	2345561
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 05:47	Umesh Chiluwal	2345563
	08/03/2022	08/08/2022 09:00	Hoor Shaik	08/08/2022 21:10	Juyoung Kim	2345559
	08/03/2022	08/08/2022 09:00	Hoor Shaik	08/08/2022 21:32	Juyoung Kim	2345562
SM 2320 B-2011	08/03/2022			08/10/2022 23:35	Dale L. Simmons	2345553
SM 2540 D-2011	08/03/2022			08/05/2022 16:02	Yijie Li	2345553

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	08/03/2022			08/10/2022 21:28	Dale L. Simmons	2345553
SM 5310 B-2011	08/03/2022			08/10/2022 03:05	Khloe J Berg	2345554