

Chemical Analysis Report

SO-DIST-2022-08-11-01

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

Event Description: **2022 SMP : Okee Canals**
Request ID: **RQ-2022-08-08-69**
Customer: **SO-DIST**
Project ID: **SMP**

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

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: 06-SEP-2022 09:08

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: Indian Prairie Canal @ SR 70

Collection Date/Time: 08/10/2022 09:50

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348229	DEP SOP: NU-094-1	Color (true)	100		PCU	P418004	
	EPA 180.1 Rev. 2.0	Turbidity	6.1		NTU	P418007	
	EPA 300.0 Rev. 2.1	Chloride	95		mg Cl/L	P418360	
		Sulfate	92		mg SO4/L	P418362	
	SM 2320 B-2011	Total Alkalinity	59		mg CaCO3/L	P418314	
	SM 2540 C-2011	TDS	414		mg/L	P418451	
	SM 2540 D-2011	TSS	12		mg/L	P418457	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P418317	
2348230	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P418328	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P418085	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P418146	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P418708	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P418235	
2348242	EPA 8321B	Aldicarb	0.020	U	ug/L	P417969	
		Aldicarb Sulfone	0.0020	U	ug/L	P417969	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P417969	
		Carbaryl	0.0020	U	ug/L	P417969	
		Carbofuran	0.0020	U	ug/L	P417969	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P417969	
		Methiocarb	0.0020	U	ug/L	P417969	
		Methomyl	0.0020	U	ug/L	P417969	
		Oxamyl	0.0020	U	ug/L	P417969	
		Propoxur	0.0020	U	ug/L	P417969	
2348243		2,4-D	0.90		ug/L	P417968	
		Acesulfame K	0.10	U	ug/L	P417966	
		2,4,5-T	0.0040	U	ug/L	P417968	
		AMPA	4.9		ug/L	P417966	
		Acetaminophen	0.0080	U	ug/L	P417968	
		Acetamiprid	0.0020	U	ug/L	P417968	
		Endothall	0.25	U	ug/L	P417966	
		Glufosinate	0.10	U	ug/L	P417966	
		Glyphosate	25		ug/L	P417966	
		Afidopyropen	0.0020	U	ug/L	P417968	
		Bentazon	0.0080		ug/L	P417968	
		Sucralose	0.11		ug/L	P417966	
		Benzovindiflupyr	0.0020	U	ug/L	P417968	
		Carbamazepine	8.0E-04	U	ug/L	P417968	
		Clothianidin	0.0020	U	ug/L	P417968	
		Dinotefuran	0.0020	U	ug/L	P417968	
		Diuron	0.0020	U	ug/L	P417968	
		Fenuron	0.032	U	ug/L	P417968	
		Fluridone	0.0064		ug/L	P417968	
		Imazapyr	0.13		ug/L	P417968	
		Hydrocodone	0.0020	U	ug/L	P417968	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348243	EPA 8321B	Ibuprofen	0.080	U	ug/L	P417968	RPD
		Imidacloprid	0.0066	I	ug/L	P417968	
		Linuron	0.0040	U	ug/L	P417968	
		Mandestrobin	0.0020	U	ug/L	P417968	
		MCP	0.0040	U	ug/L	P417968	
		Naproxen	0.0080	U	ug/L	P417968	
		Primidone	0.0040	U	ug/L	P417968	
		Pyraclostrobin	0.0020	U	ug/L	P417968	
		Silvex	0.0040	U	ug/L	P417968	
		Thiamethoxam	0.0024	I	ug/L	P417968	
		Tolfenpyrad	0.0020	U	ug/L	P417968	
		Triclopyr	0.0040	U	ug/L	P417968	
2348248	EPA 8270E	Aldrin	0.71	U	ng/L	P418171	LCS, MS
		Alpha-BHC	0.11	UJ	ng/L	P418171	
		Alpha-Chlordane	0.24	I	ng/L	P418171	
		PCB-1016	2.2	U	ng/L	P418171	
		Beta-BHC	0.11	U	ng/L	P418171	
		PCB-1221	2.2	U	ng/L	P418171	
		Beta-Cyfluthrin	1.4	U	ng/L	P418171	
		PCB-1232	2.2	U	ng/L	P418171	
		Bifenthrin	0.54	U	ng/L	P418171	
		PCB-1242	2.2	U	ng/L	P418171	
		PCB-1248	2.2	U	ng/L	P418171	
		Chlorothalonil	1.4	U	ng/L	P418171	
		PCB-1254	2.2	U	ng/L	P418171	
		Cis-Nonachlor	0.22	U	ng/L	P418171	
		PCB-1260	2.2	U	ng/L	P418171	
		Cypermethrin	1.6	U	ng/L	P418171	
		Dacthal	0.16	U	ng/L	P418171	
		DDD-p,p'	0.27	U	ng/L	P418171	
		DDE-p,p'	0.23	I	ng/L	P418171	
		DDT-p,p'	0.31	I	ng/L	P418171	
		Delta-BHC	0.44	U	ng/L	P418171	
		Deltamethrin	1.4	U	ng/L	P418171	
		Dichlobenil	0.27	U	ng/L	P418171	
		Dicofol	1.4	U	ng/L	P418171	
		Dieldrin	0.76	I	ng/L	P418171	
		Endosulfan I	0.44	U	ng/L	P418171	
		Endosulfan II	0.44	U	ng/L	P418171	
		Endosulfan Sulfate	0.33	U	ng/L	P418171	
		Endrin	0.44	U	ng/L	P418171	
		Endrin Aldehyde	0.82	U	ng/L	P418171	
		Endrin Ketone	0.44	U	ng/L	P418171	
		Esfenvalerate	0.82	U	ng/L	P418171	
		Ethalfuralin	0.16	U	ng/L	P418171	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348248	EPA 8270E	Fenpropathrin	0.27	U	ng/L	P418171	
		Gamma-BHC	0.14	U	ng/L	P418171	
		Gamma-Chlordane	0.22	U	ng/L	P418171	
		Heptachlor	0.22	U	ng/L	P418171	
		Heptachlor Epoxide	0.27	U	ng/L	P418171	
		Hexachlorobenzene**	1.1	U	ng/L	P418171	
		Kepone	5.4	UJ	ng/L	P418171	CCV
		Lambda-Cyhalothrin	0.82	U	ng/L	P418171	
		Methoprene	0.82	U	ng/L	P418171	
		Methoxychlor	0.33	UJ	ng/L	P418171	CCV
		MGK-264	0.22	U	ng/L	P418171	
		Mirex	0.38	U	ng/L	P418171	
		Oxychlordane	0.33	U	ng/L	P418171	
		Permethrin	1.7	U	ng/L	P418171	
		Phenothrin	0.98	U	ng/L	P418171	
		Piperonyl Butoxide	0.31	I	ng/L	P418171	
		Prallethrin	2.2	U	ng/L	P418171	
		Tau-Fluvalinate	0.27	U	ng/L	P418171	
		Tetramethrin	0.82	U	ng/L	P418171	
		Trans-Nonachlor	0.22	U	ng/L	P418171	
		Triclosan Methyl	0.16	U	ng/L	P418171	
		Trifluralin	0.22	U	ng/L	P418171	
2348249	EPA 8276	Chlordane	3.7	I	ng/L	P418171	
		Toxaphene	16	U	ng/L	P418171	
2348249	EPA 8270E	Oxybenzone**	9.3	U	ng/L	P418168	
		Acetochlor	0.23	U	ng/L	P418168	
		Octinoxate**	19	U	ng/L	P418168	
		Alachlor	0.23	U	ng/L	P418168	
		Avobenzone**	93	U	ng/L	P418168	
		Ametryn	15		ng/L	P418168	
		Atrazine	290		ng/L	P418168	
		PBDE-47**	3.7	U	ng/L	P418168	
		Atrazine Desethyl	18		ng/L	P418168	
		PBDE-99**	4.7	U	ng/L	P418168	
		Azinphos Methyl	1.9	U	ng/L	P418168	
		Tri-o-cresyl Phosphate**	5.6	U	ng/L	P418168	
		Azoxystrobin	3.4		ng/L	P418168	
		Bromacil	4.5		ng/L	P418168	
		2-Ethylhexyl	11	U	ng/L	P418168	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.37	U	ng/L	P418168	
		Dechlorane Plus**	28	U	ng/L	P418168	
		Caffeine**	7.0	U	ng/L	P418168	
		Carbophenothion	0.19	U	ng/L	P418168	
		Carfentrazone Ethyl	0.093	U	ng/L	P418168	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348249	EPA 8270E	Chlorfenapyr	0.16	U	ng/L	P418168	
		Chlorpyrifos Ethyl	0.23	U	ng/L	P418168	
		Chlorpyrifos Methyl	0.047	U	ng/L	P418168	
		Coumaphos	0.47	U	ng/L	P418168	
		Cyanazine	3.0	U	ng/L	P418168	
		Cyprodinil	0.093	U	ng/L	P418168	
		Demeton	1.4	U	ng/L	P418168	
		Diazinon	0.15	I	ng/L	P418168	
		Difenoconazole	0.56	U	ng/L	P418168	
		Dimethenamid	34		ng/L	P418168	
		Dimethomorph	0.16	U	ng/L	P418168	
		Disulfoton	0.47	U	ng/L	P418168	
		Dithiopyr	1.4	V	ng/L	P418168	
		EPTC	1.2	U	ng/L	P418168	
		Ethion	0.14	U	ng/L	P418168	
		Ethoprop	0.093	U	ng/L	P418168	
		Etridiazole	0.14	U	ng/L	P418168	MS
		Fenamiphos	0.47	U	ng/L	P418168	
		Fenbuconazole	0.79		ng/L	P418168	
		Fipronil	0.23	U	ng/L	P418168	
		Fipronil Desulfinyl**	0.12	U	ng/L	P418168	
		Fipronil Sulfide	0.14	U	ng/L	P418168	
		Fipronil Sulfone	0.14	U	ng/L	P418168	
		Fluazifop-P-butyl	0.093	U	ng/L	P418168	
		Fludioxonil	0.12	U	ng/L	P418168	
		Flumioxazin	2.1	I	ng/L	P418168	
		Flutolanil	0.093	U	ng/L	P418168	
		Fluxapyroxad	0.52		ng/L	P418168	
		Fonofos	0.19	U	ng/L	P418168	
		Hexazinone	3.5		ng/L	P418168	
		Imazalil	0.70	U	ng/L	P418168	
		Iprodione	0.56	U	ng/L	P418168	
		Loratadine**	0.093	U	ng/L	P418168	
		Malathion	0.33	U	ng/L	P418168	
		Metalaxyl	2.1	I	ng/L	P418168	
		Metolachlor	710		ng/L	P418168	
		Metribuzin	2.3	U	ng/L	P418168	
		Mevinphos	0.98	U	ng/L	P418168	
		Molinate	0.28	U	ng/L	P418168	
		Myclobutanil	0.23	U	ng/L	P418168	
		Naled	1.4	U	ng/L	P418168	RPD
		Napropamide	0.37	U	ng/L	P418168	
		Norflurazon	13		ng/L	P418168	
		Oxadiazon	2.4		ng/L	P418168	
		Oxyfluorfen	0.14	U	ng/L	P418168	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348249	EPA 8270E	Parathion Ethyl	0.23	U	ng/L	P418168	
		Parathion Methyl	0.51	U	ng/L	P418168	
		Pendimethalin	1.6	I	ng/L	P418168	
		Phenytion**	3.3	U	ng/L	P418168	MS
		Phorate	0.49	U	ng/L	P418168	
		Prodiamine	0.16	U	ng/L	P418168	
		Prometon	0.84	U	ng/L	P418168	
		Prometryn	0.19	U	ng/L	P418168	
		Pronamide	0.14	U	ng/L	P418168	
		Propanil	0.12	U	ng/L	P418168	
		Propargite	1.4	U	ng/L	P418168	
		Propiconazole	4.0		ng/L	P418168	
		Pyraflufen Ethyl	0.23	U	ng/L	P418168	
		Pyridaben	0.42	U	ng/L	P418168	
		Pyriproxyfen	0.12	U	ng/L	P418168	
		Simazine	370		ng/L	P418168	
		Stirophos	0.12	U	ng/L	P418168	
		Sulfentrazone	34		ng/L	P418168	
		Tebuconazole	0.51	I	ng/L	P418168	
		Terbufos	0.093	U	ng/L	P418168	
		Terbuthylazine	0.40	U	ng/L	P418168	
		Thiobencarb	0.56	U	ng/L	P418168	
		Triadimefon	0.23	U	ng/L	P418168	

Ref. Method and Comment:

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

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

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

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample.

Sample Location: L-49 at Dyess Ditch

Collection Date/Time: 08/10/2022 10:35

Field ID: G4SD0190

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348225	DEP SOP: NU-094-1	Color (true)	64		PCU	P418004	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P418007	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P418360	
		Sulfate	47		mg SO4/L	P418362	
	SM 2320 B-2011	Total Alkalinity	169		mg CaCO3/L	P418313	
	SM 2540 C-2011	TDS	484	A	mg/L	P418451	
	SM 2540 D-2011	TSS	3	IA	mg/L	P418457	
	SM 4500-F- C-2011	Fluoride	0.21		mg F/L	P418316	
2348227	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P418328	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P418085	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P418145	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P418708	
	SM 5310 B-2011	Organic Carbon	19		mg C/L	P418235	

Ref. Method and Comment:

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

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

Sample Location: L-61W At Old LakeportRd

Collection Date/Time: 08/10/2022 11:00

Field ID: G4SD0217

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348254	EPA 200.7 Rev. 4.4	Calcium	34.4		mg/L	P418012	
		Iron	310		ug/L	P418012	
		Magnesium	6.99		mg/L	P418012	
		Potassium	6.6		mg/L	P418012	
		Sodium	21.2		mg/L	P418012	
		Strontium	882		ug/L	P418012	
		Tin	6.8	I	ug/L	P418012	
		Titanium	1.2	I	ug/L	P418012	
		Vanadium	2.0	U	ug/L	P418012	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P418012	
		Aluminum	28		ug/L	P418216	
		Antimony	0.079	I	ug/L	P418012	
		Arsenic	1.22		ug/L	P418012	
		Barium	22.9		ug/L	P418012	
		Beryllium	0.026	I	ug/L	P418012	
		Boron	42.6		ug/L	P418012	
		Cadmium	0.020	U	ug/L	P418012	
		Chromium	0.43	I	ug/L	P418012	
		Cobalt	0.100		ug/L	P418012	
		Copper	0.59	I	ug/L	P418012	
		Lead	0.20	U	ug/L	P418012	
		Manganese	6.84		ug/L	P418012	
		Molybdenum	0.47	I	ug/L	P418012	
		Nickel	0.50	U	ug/L	P418012	
		Selenium	0.20	U	ug/L	P418012	
		Silver	0.010	U	ug/L	P418012	
		Thallium	0.10	U	ug/L	P418012	
	SM 2340 B-2011	Hardness	115		mg/L	P418012	

Sample Location: L-61W

Collection Date/Time: 08/10/2022 11:15

Field ID: G4SD0194

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348226	DEP SOP: NU-094-1	Color (true)	180		PCU	P418006	
	EPA 180.1 Rev. 2.0	Turbidity	26		NTU	P418007	
	EPA 300.0 Rev. 2.1	Chloride	41		mg Cl/L	P418360	
		Sulfate	18		mg SO4/L	P418362	
	SM 2320 B-2011	Total Alkalinity	78		mg CaCO3/L	P418314	
	SM 2540 C-2011	TDS	240		mg/L	P418451	
	SM 2540 D-2011	TSS	52		mg/L	P418457	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P418317	
2348228	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P418328	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	3.3		mg N/L	P418087	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.023		mg N/L	P418146	
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P418708	
	SM 5310 B-2011	Organic Carbon	29		mg C/L	P418235	

Ref. Method and Comment:

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

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

Sample Location: Caloosa Canal at 27

Collection Date/Time: 08/10/2022 11:55

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348231	DEP SOP: NU-094-1	Color (true)	120		PCU	P418004	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P418007	
	EPA 300.0 Rev. 2.1	Chloride	56		mg Cl/L	P418360	
		Sulfate	22		mg SO4/L	P418362	
	SM 2320 B-2011	Total Alkalinity	101		mg CaCO3/L	P418314	
	SM 2540 C-2011	TDS	278		mg/L	P418452	
	SM 2540 D-2011	TSS	19		mg/L	P418458	
	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P418317	
2348232	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P418329	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.3		mg N/L	P418087	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.026		mg N/L	P418146	
	EPA 365.1 Rev. 2.0	Total-P	0.099		mg P/L	P418191	
	SM 5310 B-2011	Organic Carbon	22		mg C/L	P418344	
2348244	EPA 8321B	2,4-D	0.039		ug/L	P417968	
		Acesulfame K	0.10	U	ug/L	P417966	
		2,4,5-T	0.0040	U	ug/L	P417968	
		AMPA	0.10	U	ug/L	P417966	
		Acetaminophen	0.0080	U	ug/L	P417968	
		Acetamiprid	0.0020	U	ug/L	P417968	
		Endothall	0.25	U	ug/L	P417966	
		Glufosinate	0.10	U	ug/L	P417966	
		Glyphosate	0.10	U	ug/L	P417966	
		Afidopyropen	0.0020	U	ug/L	P417968	
		Bentazon	0.0016	I	ug/L	P417968	
		Sucralose	0.12		ug/L	P417966	
		Benzovindiflupyr	0.0020	U	ug/L	P417968	
		Carbamazepine	8.0E-04	U	ug/L	P417968	
		Clothianidin	0.0051	I	ug/L	P417968	
		Dinotefuran	0.0020	U	ug/L	P417968	
		Diuron	0.0020	U	ug/L	P417968	
		Fenuron	0.032	U	ug/L	P417968	
		Fluridone	0.0021	I	ug/L	P417968	
		Imazapyr	0.026		ug/L	P417968	
		Hydrocodone	0.0020	U	ug/L	P417968	
		Ibuprofen	0.080	U	ug/L	P417968	
		Imidacloprid	0.0031	I	ug/L	P417968	
		Linuron	0.0040	U	ug/L	P417968	RPD
		Mandestrobin	0.0020	U	ug/L	P417968	
		MCPP	0.0040	U	ug/L	P417968	
		Naproxen	0.038		ug/L	P417968	
		Primidone	0.0040	U	ug/L	P417968	
		Pyraclostrobin	0.0020	U	ug/L	P417968	
		Silvex	0.0040	U	ug/L	P417968	
		Thiamethoxam	0.0060	I	ug/L	P417968	

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348244	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P417968	
		Triclopyr	0.0040	U	ug/L	P417968	
2348250	EPA 8270E	Aldrin	0.67	U	ng/L	P418171	
		Alpha-BHC	0.10	UJ	ng/L	P418171	LCS, MS
		Alpha-Chlordane	0.21	U	ng/L	P418171	
		PCB-1016	2.1	U	ng/L	P418171	
		Beta-BHC	0.10	U	ng/L	P418171	
		PCB-1221	2.1	U	ng/L	P418171	
		Beta-Cyfluthrin	1.3	U	ng/L	P418171	
		PCB-1232	2.1	U	ng/L	P418171	
		Bifenthrin	0.54	I	ng/L	P418171	
		PCB-1242	2.1	U	ng/L	P418171	
		Carbophenothion	0.92	U	ng/L	P418171	
		PCB-1248	2.1	U	ng/L	P418171	
		Chlorothalonil	1.3	U	ng/L	P418171	
		PCB-1254	2.1	U	ng/L	P418171	
		Cis-Nonachlor	0.21	U	ng/L	P418171	
		PCB-1260	2.1	U	ng/L	P418171	
		Cypermethrin	1.5	U	ng/L	P418171	
		Dacthal	0.15	U	ng/L	P418171	
		DDD-p,p'	0.26	U	ng/L	P418171	
		DDE-p,p'	0.21	U	ng/L	P418171	
		DDT-p,p'	0.26	U	ng/L	P418171	
		Delta-BHC	0.41	U	ng/L	P418171	
		Deltamethrin	1.3	U	ng/L	P418171	
		Dichlobenil	0.26	U	ng/L	P418171	
		Dicofol	1.3	U	ng/L	P418171	
		Dieldrin	0.41	U	ng/L	P418171	
		Endosulfan I	0.41	U	ng/L	P418171	
		Endosulfan II	0.41	U	ng/L	P418171	
		Endosulfan Sulfate	0.31	U	ng/L	P418171	
		Endrin	0.41	U	ng/L	P418171	
		Endrin Aldehyde	0.77	U	ng/L	P418171	
		Endrin Ketone	0.41	U	ng/L	P418171	
		Esfenvalerate	0.77	U	ng/L	P418171	
		Ethalfuralin	0.15	U	ng/L	P418171	
		Fenpropathrin	0.26	U	ng/L	P418171	
		Gamma-BHC	0.13	U	ng/L	P418171	
		Gamma-Chlordane	0.21	U	ng/L	P418171	
		Heptachlor	0.21	U	ng/L	P418171	
		Heptachlor Epoxide	0.26	U	ng/L	P418171	
		Hexachlorobenzene**	1.0	U	ng/L	P418171	
		Kepone	5.1	U	ng/L	P418171	
		Lambda-Cyhalothrin	0.77	U	ng/L	P418171	
		Methoprene	0.77	U	ng/L	P418171	

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2348250	EPA 8270E	Methoxychlor	0.31	U	ng/L	P418171	
		MGK-264	0.21	U	ng/L	P418171	
		Mirex	0.36	U	ng/L	P418171	
		Oxychlordane	0.31	U	ng/L	P418171	
		Permethrin	2.0	I	ng/L	P418171	
		Phenothrin	0.92	U	ng/L	P418171	
		Piperonyl Butoxide	0.15	U	ng/L	P418171	
		Prallethrin	2.1	U	ng/L	P418171	
		Tau-Fluvalinate	0.26	U	ng/L	P418171	
		Tetramethrin	0.77	U	ng/L	P418171	
		Trans-Nonachlor	0.21	U	ng/L	P418171	
		Triclosan Methyl	0.15	U	ng/L	P418171	
		Trifluralin	0.21	U	ng/L	P418171	
	EPA 8276	Chlordane	2.8	I	ng/L	P418171	
		Toxaphene	15	U	ng/L	P418171	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
 EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
 EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P418004

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P418006

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418007

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418012

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418012

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418216

Component	Result	Code	Units
Aluminum	5.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418360

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418362

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418328

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418329

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418085

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418087

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418145

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418146

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: P418191

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418708

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

Reference Method: EPA 8270E
Batch ID: P418168

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

Component	Result	Code	Units
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.61	I	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

Component	Result	Code	Units
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
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
Phenytion	3.5	U	ng/L
Phenytion	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

Component	Result	Code	Units
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P418171

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
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	1.2	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418171

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418171

Component	Result	Code	Units
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
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: P418171

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276

Batch ID: P418171

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

Reference Method: EPA 8321B

Batch ID: P417966

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

Reference Method: EPA 8321B

Batch ID: P417968

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: P417969

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P417969

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

Reference Method: SM 2320 B-2011
Batch ID: P418313

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

Reference Method: SM 2320 B-2011
Batch ID: P418314

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

Reference Method: SM 2540 C-2011
Batch ID: P418451

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P418452

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418457

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418458

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P418316

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P418317

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P418235

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

Reference Method: SM 5310 B-2011
Batch ID: P418344

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P418004

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P418006

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418007

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418012

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	108		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	105		P	85 - 115
Sodium	103		P	85 - 115
Strontium	108		P	85 - 115
Tin	110		P	85 - 115
Titanium	108		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418012

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Antimony	96.8		P	85 - 115
Arsenic	95.5		P	85 - 115
Barium	101		P	85 - 115
Beryllium	91.3		P	85 - 115
Boron	101		P	85 - 115
Cadmium	92.8		P	85 - 115
Chromium	93.6		P	85 - 115
Cobalt	93.0		P	85 - 115
Copper	95.2		P	85 - 115
Lead	95.5		P	85 - 115
Manganese	95.4		P	85 - 115
Molybdenum	93.3		P	85 - 115
Nickel	96.2		P	85 - 115
Selenium	96.6		P	85 - 115
Silver	92.7		P	85 - 115
Thallium	90.9		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418216

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418362

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418329

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418085

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418087

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418145

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418146

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	96.0		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P418191

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P418708

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.9		P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P418168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.1		P	50 - 150
Acetochlor	90.4		P	70 - 121
Alachlor	82.5		P	68 - 119
Ametryn	93.7		P	64 - 139
Atrazine	90.5		P	76 - 120
Atrazine Desethyl	63.5		P	44 - 126
Avobenzone	88.9		P	76 - 212
Azinphos Methyl	98.1		P	43 - 192
Azoxystrobin	97.1		P	36 - 224
Bromacil	79.4		P	52 - 121
Butylate	37.2		P	28 - 91.0
Caffeine	83.4		P	50 - 134
Carbophenothion	81.2		P	56 - 129
Carfentrazone Ethyl	89.9		P	60 - 141
Chlorfenapyr	85.8		P	56 - 115
Chlorpyrifos Ethyl	88.8		P	60 - 118
Chlorpyrifos Methyl	92.7		P	68 - 119
Coumaphos	87.5		P	18 - 250
Cyanazine	82.6		P	61 - 250
Cyprodinil	85.1		P	55 - 145
Dechlorane Plus	112		P	50 - 150
Demeton	69.5		P	30 - 159
Diazinon	84.5		P	70 - 123
Difenoconazole	102		P	49 - 204
Dimethenamid	70.5		P	64 - 115
Dimethomorph	83.7		P	12 - 219
Disulfoton	81.9		P	44 - 125
Dithiopyr	92.5		P	64 - 115
EPTC	33.9		P	28 - 86.0
Ethion	91.8		P	33 - 125
Ethoprop	72.6		P	64 - 116
Etridiazole	38.7		P	34 - 91.0
Fenamiphos	86.6		P	12 - 127
Fenbuconazole	89.1		P	59 - 151
Fipronil	86.5		P	67 - 129
Fipronil Desulfinyl	94.5		P	65 - 127
Fipronil Sulfide	81.5		P	61 - 116
Fipronil Sulfone	76.8		P	55 - 117
Fluazifop-P-butyl	90.9		P	62 - 127
Fludioxonil	81.1		P	62 - 128

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P418168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Flumioxazin	106		P	33 - 250
Flutolanil	86.7		P	56 - 127
Fluxapyroxad	80.1		P	45 - 128
Fonofos	79.1		P	62 - 111
Hexazinone	84.4		P	46 - 139
Imazalil	77.3		P	38 - 142
Iprodione	85.2		P	47 - 135
Loratadine	80.4		P	10 - 244
Malathion	98.1		P	61 - 139
Metalaxyl	83.8		P	10 - 119
Metolachlor	81.4		P	65 - 118
Metribuzin	96.3		P	51 - 250
Mevinphos	64.0		P	53 - 121
Molinate	48.9		P	42 - 96.0
Myclobutanil	87.2		P	55 - 128
Naled	75.7		P	10 - 98.0
Napropamide	76.7		P	49 - 121
Norflurazon	77.8		P	61 - 126
Octinoxate	91.3		P	30 - 159
Oxadiazon	71.7		P	59 - 116
Oxybenzone	82.7		P	61 - 139
Oxyfluorfen	98.7		P	64 - 137
Parathion Ethyl	90.6		P	70 - 112
Parathion Methyl	98.7		P	76 - 133
PBDE-47	91.9		P	50 - 150
PBDE-99	95.6		P	50 - 150
Pendimethalin	94.0		P	52 - 117
Phenytoin	49.2		P	10 - 199
Phorate	68.0		P	48 - 121
Prodiamine	42.3		P	26 - 142
Prometon	75.0		P	43 - 123
Prometryn	81.6		P	66 - 127
Pronamide	93.2		P	75 - 121
Propanil	83.7		P	45 - 150
Propargite	76.4		P	42 - 208
Propiconazole	77.6		P	60 - 125
Pyraflufen Ethyl	77.9		P	70 - 138
Pyridaben	91.4		P	35 - 245
Pyriproxyfen	81.9		P	30 - 149
Simazine	84.2		P	72 - 125
Stirophos	80.2		P	29 - 164
Sulfentrazone	70.8		P	21 - 139
Tebuconazole	65.7		P	10 - 115
Terbufos	93.7		P	60 - 123
Terbutylazine	85.6		P	72 - 115
Thiobencarb	80.6		P	31 - 139
Tri-o-cresyl Phosphate	91.8		P	50 - 150
Triadimefon	85.3		P	65 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.6		P	10 - 92.0
Alpha-BHC	74.6		F	75 - 107
Alpha-Chlordane	55.6		P	50 - 108
Beta-BHC	95.4		P	36 - 138
Beta-Cyfluthrin	45.1		P	20 - 161
Bifenthrin	45.6		P	10 - 119
Carbophenothion	35.1		P	19 - 94.0
Chlorothalonil	104		P	26 - 186
Cis-Nonachlor	47.7		P	42 - 119
Cypermethrin	47.1		P	22 - 150
Dacthal	72.1		P	72 - 119
DDD-p,p'	56.3		P	45 - 107
DDE-p,p'	54.4		P	48 - 106
DDT-p,p'	59.9		P	48 - 110
Delta-BHC	102		P	54 - 140
Deltamethrin	57.6		P	22 - 189
Dichlobenil	64.2		P	36 - 117
Dicofol	72.0		P	46 - 155
Dieldrin	60.7		P	54 - 110
Endosulfan I	68.6		P	59 - 105
Endosulfan II	59.3		P	51 - 118
Endosulfan Sulfate	68.5		P	57 - 121
Endrin	59.5		P	10 - 120
Endrin Aldehyde	63.9		P	34 - 118
Endrin Ketone	73.7		P	69 - 177
Esfenvalerate	42.9		P	23 - 168
Ethalfuralin	61.6		P	49 - 99.0
Fenpropathrin	46.7		P	34 - 117
Gamma-BHC	83.4		P	72 - 117
Gamma-Chlordane	53.1		P	43 - 106
Heptachlor	53.4		P	41 - 98.0
Heptachlor Epoxide	64.0		P	57 - 106
Hexachlorobenzene	58.7		P	36 - 99.0
Kepone	110		P	16 - 215
Lambda-Cyhalothrin	35.9		P	21 - 177
Methoprene	30.3		P	10 - 119
Methoxychlor	101		P	60 - 112
MGK-264	63.2		P	26 - 122
Mirex	37.4		P	10 - 169
Oxychlordane	63.6		P	43 - 105
PCB-1016	91.3		P	48 - 112
PCB-1260	91.2		P	44 - 118
Permethrin	44.4		P	24 - 148
Phenothrin	25.5		P	10 - 106
Piperonyl Butoxide	85.4		P	10 - 139
Prallethrin	56.2		P	17 - 109
Tau-Fluvalinate	35.1		P	13 - 131
Tetramethrin	77.7		P	10 - 132
Trans-Nonachlor	51.8		P	44 - 106
Triclosan Methyl	62.6		P	59 - 109
Trifluralin	62.5		P	44 - 101

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	94.3		P	61 - 116
Toxaphene	90.9		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P417966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.5		P	40 - 150
AMPA	101		P	40 - 150
Endothall	107		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	105		P	40 - 150
Sucralose	102		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	119		P	40 - 150
2,4,5-T	99.8		P	40 - 150
Acetaminophen	91.4		P	30 - 150
Acetamiprid	95.5		P	40 - 150
Afidopyropen	73.4		P	30 - 150
Bentazon	99.2		P	30 - 150
Benzovindiflupyr	108		P	40 - 150
Carbamazepine	108		P	40 - 150
Clothianidin	102		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	77.5		P	40 - 150
Fenuron	104		P	40 - 150
Fluridone	106		P	40 - 150
Hydrocodone	103		P	40 - 150
Ibuprofen	119		P	40 - 150
Imazapyr	110		P	40 - 150
Imidacloprid	100		P	40 - 150
Linuron	97.7		P	40 - 150
Mandestrobin	107		P	40 - 150
MCPP	111		P	40 - 150
Naproxen	84.4		P	40 - 150
Primidone	100		P	40 - 150
Pyraclostrobin	100		P	40 - 150
Silvex	111		P	40 - 150
Thiamethoxam	114		P	40 - 150
Tolfenpyrad	86.7		P	30 - 150
Triclopyr	96.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	91.7		P	40 - 150
Aldicarb	55.0		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P417969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfone	110		P	40 - 150
Aldicarb Sulfoxide	110		P	40 - 150
Carbaryl	101		P	40 - 150
Carbofuran	95.8		P	40 - 150
Methiocarb	117		P	40 - 150
Methomyl	99.7		P	40 - 150
Oxamyl	113		P	40 - 150
Propoxur	83.4		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P418313

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

Reference Method: SM 2320 B-2011
Batch ID: P418314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P418316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P418317

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.5		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P418235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P418344

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418012

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348462	Calcium	105		P	80 - 120
2348462	Iron	108	110	P/P	80 - 120
2348462	Magnesium	103		P	80 - 120
2348462	Potassium	106	105	P/P	80 - 120
2348462	Sodium	105	104	P/P	80 - 120
2348462	Strontium	107	108	P/P	80 - 120
2348462	Tin	106	108	P/P	80 - 120
2348462	Titanium	105	104	P/P	80 - 120
2348462	Vanadium	104	104	P/P	80 - 120
2348462	Zinc	100	101	P/P	80 - 120
2348463	Calcium	103		P	80 - 120
2348463	Iron	110		P	80 - 120
2348463	Magnesium	106		P	80 - 120
2348463	Potassium	105		P	80 - 120
2348463	Sodium	102		P	80 - 120
2348463	Strontium	107		P	80 - 120
2348463	Tin	109		P	80 - 120
2348463	Titanium	107		P	80 - 120
2348463	Vanadium	103		P	80 - 120
2348463	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418012

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348462	Antimony	96.1	97.1	P/P	80 - 120
2348462	Arsenic	95.8	95.5	P/P	80 - 120
2348462	Barium	100	103	P/P	80 - 120
2348462	Beryllium	90.4	91.6	P/P	80 - 120
2348462	Boron	100	102	P/P	80 - 120
2348462	Cadmium	95.3	95.6	P/P	80 - 120
2348462	Chromium	96.1	95.8	P/P	80 - 120
2348462	Cobalt	91.9	92.0	P/P	80 - 120
2348462	Copper	94.4	93.9	P/P	80 - 120
2348462	Lead	97.6	97.7	P/P	80 - 120
2348462	Manganese	97.2	98.9	P/P	80 - 120
2348462	Molybdenum	95.5	95.4	P/P	80 - 120
2348462	Nickel	95.8	95.9	P/P	80 - 120
2348462	Selenium	95.1	95.2	P/P	80 - 120
2348462	Silver	94.0	94.6	P/P	80 - 120
2348462	Thallium	93.7	96.9	P/P	80 - 120
2348463	Antimony	91.5		P	80 - 120
2348463	Arsenic	94.6		P	80 - 120
2348463	Barium	98.5		P	80 - 120
2348463	Beryllium	86.8		P	80 - 120
2348463	Boron	96.4		P	80 - 120
2348463	Cadmium	90.7		P	80 - 120
2348463	Chromium	94.0		P	80 - 120
2348463	Cobalt	91.2		P	80 - 120
2348463	Copper	95.1		P	80 - 120
2348463	Lead	92.6		P	80 - 120
2348463	Manganese	92.8		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418012

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348463	Molybdenum	91.5		P	80 - 120
2348463	Nickel	96.2		P	80 - 120
2348463	Selenium	91.1		P	80 - 120
2348463	Silver	91.4		P	80 - 120
2348463	Thallium	91.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348307	Aluminum	101		P	80 - 120
2348461	Aluminum	103	119	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348147	Chloride	98.0		P	90 - 110
2348391	Chloride	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348147	Sulfate	98.0		P	90 - 110
2348391	Sulfate	97.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348227	Ammonia-N	96.6	96.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418329

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348394	Ammonia-N	98.2	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418145

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348084	NO2NO3-N	99.5	97.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348303	NO2NO3-N	93.5	93.5	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P418191

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348390	Total-P	100	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P418708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351460	Total-P	99.4	102	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P418168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348187	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	121	126	P/P	50 - 150
2348187	Acetochlor	82.3	101	P/P	65 - 124
2348187	Alachlor	70.4	89.7	P/P	61 - 121
2348187	Ametryn	67.9	66.2	P/P	52 - 216
2348187	Atrazine Desethyl	53.6	57.8	P/P	15 - 160
2348187	Avobenzene	95.6	99.9	P/P	59 - 206
2348187	Azinphos Methyl	87.3	96.3	P/P	40 - 292
2348187	Azoxystrobin	93.8	116	P/P	12 - 242
2348187	Bromacil	80.8	86.6	P/P	54 - 167
2348187	Butylate	29.6	30.2	P/P	14 - 94.0
2348187	Caffeine	98.5	98.3	P/P	10 - 226
2348187	Carbophenothion	71.5	76.5	P/P	49 - 122
2348187	Carfentrazone Ethyl	77.3	82.9	P/P	53 - 138
2348187	Chlorfenapyr	67.8	74.3	P/P	50 - 150
2348187	Chlorpyrifos Ethyl	98.0	99.4	P/P	52 - 122
2348187	Chlorpyrifos Methyl	84.0	96.0	P/P	66 - 117
2348187	Coumaphos	75.2	84.6	P/P	50 - 220
2348187	Cyanazine	78.4	82.3	P/P	43 - 245
2348187	Cyprodinil	76.2	85.9	P/P	50 - 150
2348187	Dechlorane Plus	139	133	P/P	50 - 150
2348187	Demeton	72.9	83.4	P/P	43 - 188
2348187	Diazinon	77.4	92.3	P/P	69 - 131
2348187	Difenoconazole	97.8	115	P/P	34 - 231
2348187	Dimethenamid	68.9	81.6	P/P	55 - 118
2348187	Dimethomorph	96.2	106	P/P	50 - 150
2348187	Disulfoton	78.6	91.3	P/P	38 - 141
2348187	Dithiopyr	61.3	73.6	P/P	42 - 116
2348187	EPTC	28.7	24.8	P/P	18 - 85.0
2348187	Ethion	73.6	70.4	P/P	10 - 131
2348187	Ethoprop	79.1	91.2	P/P	65 - 129
2348187	Etridiazole	37.5	37.5	F/F	50 - 150
2348187	Fenamiphos	70.7	72.2	P/P	31 - 137
2348187	Fenbuconazole	74.7	83.0	P/P	57 - 160
2348187	Fipronil	74.9	92.7	P/P	62 - 132
2348187	Fipronil Desulfinyl	94.7	105	P/P	57 - 131
2348187	Fipronil Sulfide	76.5	94.1	P/P	15 - 138
2348187	Fluazifop-P-butyl	78.0	86.9	P/P	54 - 133
2348187	Fludioxonil	72.2	89.5	P/P	58 - 127
2348187	Flumioxazin	98.0	125	P/P	33 - 300
2348187	Flutolanil	51.2	63.1	P/P	42 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348187	Fluxapyroxad	72.0	83.5	P/P	23 - 141
2348187	Fonofos	81.9	85.8	P/P	58 - 119
2348187	Hexazinone	90.0	100	P/P	68 - 172
2348187	Imazalil	80.4	77.0	P/P	48 - 283
2348187	Iprodione	70.8	80.1	P/P	38 - 140
2348187	Loratadine	91.6	102	P/P	50 - 150
2348187	Malathion	91.5	103	P/P	40 - 137
2348187	Metalaxyl	74.4	82.4	P/P	21 - 129
2348187	Metolachlor	76.3	92.7	P/P	55 - 122
2348187	Metribuzin	93.8	117	P/P	38 - 187
2348187	Mevinphos	67.7	74.7	P/P	54 - 134
2348187	Molinate	49.0	52.1	P/P	41 - 97.0
2348187	Myclobutanil	92.4	114	P/P	56 - 125
2348187	Naled	73.9	105	P/P	10 - 108
2348187	Napropamide	63.3	73.8	P/P	50 - 150
2348187	Norflurazon	65.1	78.1	P/P	32 - 122
2348187	Octinoxate	103	110	P/P	25 - 150
2348187	Oxybenzone	107	106	P/P	59 - 147
2348187	Oxyfluorfen	90.1	106	P/P	61 - 153
2348187	Parathion Ethyl	87.9	101	P/P	59 - 130
2348187	Parathion Methyl	96.2	115	P/P	65 - 155
2348187	PBDE-47	108	114	P/P	50 - 150
2348187	PBDE-99	106	111	P/P	50 - 150
2348187	Pendimethalin	100	114	P/P	49 - 138
2348187	Phenytoin	36.8	45.7	F/F	50 - 200
2348187	Phorate	68.4	78.3	P/P	54 - 161
2348187	Prodiamine	48.8	53.2	P/P	33 - 161
2348187	Prometon	74.7	72.5	P/P	48 - 140
2348187	Prometryn	73.1	77.4	P/P	55 - 134
2348187	Pronamide	77.9	91.8	P/P	66 - 137
2348187	Propanil	68.8	86.9	P/P	50 - 150
2348187	Propargite	52.5	59.7	P/P	50 - 200
2348187	Propiconazole	74.6	95.0	P/P	36 - 150
2348187	Pyraflufen Ethyl	64.9	72.8	P/P	50 - 150
2348187	Pyridaben	101	96.8	P/P	50 - 200
2348187	Pyriproxyfen	61.4	76.5	P/P	10 - 165
2348187	Stirophos	61.7	64.9	P/P	50 - 150
2348187	Sulfentrazone	84.1	113	P/P	34 - 140
2348187	Tebuconazole	49.6	54.6	P/P	10 - 127
2348187	Terbufos	98.3	113	P/P	59 - 138
2348187	Terbutylazine	82.6	95.1	P/P	68 - 119
2348187	Thiobencarb	67.9	79.3	P/P	50 - 150
2348187	Tri-o-cresyl Phosphate	96.2	101	P/P	50 - 150
2348187	Triadimefon	67.3	77.9	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P418171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348185	PCB-1016	80.4	68.9	P/P	46 - 111
2348185	PCB-1260	78.7	69.6	P/P	45 - 114
2348248	Aldrin	47.3	51.5	P/P	20 - 82.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P418171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348248	Alpha-BHC	69.6	81.4	F/P	71 - 109
2348248	Alpha-Chlordane	42.9	45.5	P/P	42 - 106
2348248	Beta-BHC	99.7	110	P/P	69 - 180
2348248	Beta-Cyfluthrin	61.4	58.6	P/P	18 - 175
2348248	Bifenthrin	75.9	60.2	P/P	21 - 128
2348248	Carbophenothion	43.6	47.2	P/P	10 - 126
2348248	Chlorothalonil	166	190	P/P	10 - 300
2348248	Cis-Nonachlor	42.4	41.9	P/P	34 - 106
2348248	Cypermethrin	63.1	61.3	P/P	22 - 158
2348248	Dacthal	62.4	67.2	P/P	54 - 116
2348248	DDD-p,p'	44.2	43.2	P/P	34 - 107
2348248	DDE-p,p'	39.3	40.2	P/P	33 - 110
2348248	DDT-p,p'	56.7	59.5	P/P	50 - 122
2348248	Delta-BHC	115	126	P/P	77 - 193
2348248	Deltamethrin	80.3	75.5	P/P	10 - 195
2348248	Dichlobenil	42.1	41.3	P/P	25 - 113
2348248	Dicofol	105	90.5	P/P	38 - 247
2348248	Dieldrin	47.1	46.9	P/P	45 - 118
2348248	Endosulfan I	59.4	60.8	P/P	51 - 106
2348248	Endosulfan II	45.2	43.4	P/P	37 - 122
2348248	Endosulfan Sulfate	49.5	50.3	P/P	43 - 132
2348248	Endrin	50.8	49.6	P/P	29 - 101
2348248	Endrin Aldehyde	40.2	36.5	P/P	19 - 110
2348248	Endrin Ketone	81.2	76.7	P/P	60 - 140
2348248	Esfenvalerate	67.5	64.3	P/P	26 - 199
2348248	Ethalfuralin	64.0	68.8	P/P	45 - 99.0
2348248	Fenpropathrin	50.1	49.6	P/P	35 - 120
2348248	Gamma-BHC	94.0	110	P/P	63 - 128
2348248	Gamma-Chlordane	51.6	53.0	P/P	40 - 104
2348248	Heptachlor	54.2	58.0	P/P	36 - 97.0
2348248	Heptachlor Epoxide	58.5	59.4	P/P	49 - 184
2348248	Hexachlorobenzene	63.6	69.8	P/P	39 - 96.0
2348248	Kepone	83.7	74.4	P/P	10 - 217
2348248	Lambda-Cyhalothrin	62.6	62.0	P/P	21 - 193
2348248	Methoprene	50.1	61.1	P/P	20 - 106
2348248	Methoxychlor	103	80.8	P/P	53 - 118
2348248	MGK-264	57.7	66.3	P/P	40 - 118
2348248	Mirex	42.2	40.8	P/P	26 - 92.0
2348248	Oxychlordane	68.8	64.1	P/P	44 - 99.0
2348248	Permethrin	62.5	62.1	P/P	33 - 182
2348248	Phenothrin	52.3	56.0	P/P	10 - 129
2348248	Piperonyl Butoxide	77.0	83.5	P/P	10 - 211
2348248	Prallethrin	55.7	57.5	P/P	24 - 113
2348248	Tau-Fluvalinate	60.9	58.1	P/P	14 - 149
2348248	Tetramethrin	64.0	56.0	P/P	17 - 151
2348248	Trans-Nonachlor	47.3	48.0	P/P	42 - 102
2348248	Triclosan Methyl	50.2	51.3	P/P	48 - 108
2348248	Trifluralin	63.5	66.7	P/P	47 - 96.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P418171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348185	Chlordane	82.5	67.8	P/P	53 - 126
2348185	Toxaphene	89.5	77.1	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P417966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348339	Acesulfame K	95.7	92.2	P/P	40 - 150
2348339	AMPA	79.7	82.1	P/P	40 - 150
2348339	Endothall	96.5	103	P/P	40 - 150
2348339	Glufosinate	101	97.9	P/P	40 - 150
2348339	Glyphosate	75.9	80.5	P/P	40 - 150
2348339	Sucralose	99.9	95.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348048	2,4-D	93.9	115	P/P	40 - 150
2348048	2,4,5-T	87.1	103	P/P	40 - 150
2348048	Acetaminophen	87.0	88.4	P/P	30 - 150
2348048	Acetamiprid	87.6	88.9	P/P	40 - 150
2348048	Afidopyropen	82.9	74.1	P/P	30 - 150
2348048	Bentazon	81.5	80.3	P/P	30 - 150
2348048	Benzovindiflupyr	103	104	P/P	40 - 150
2348048	Carbamazepine	112	115	P/P	40 - 150
2348048	Clothianidin	114	123	P/P	40 - 150
2348048	Dinotefuran	126	131	P/P	40 - 150
2348048	Diuron	87.4	92.4	P/P	40 - 150
2348048	Fenuron	99.2	98.4	P/P	40 - 150
2348048	Fluridone	96.4	117	P/P	40 - 150
2348048	Hydrocodone	108	121	P/P	40 - 150
2348048	Ibuprofen	70.2	92.7	P/P	40 - 150
2348048	Imazapyr	109	126	P/P	40 - 150
2348048	Imidacloprid	131	132	P/P	40 - 150
2348048	Linuron	136	92.0	P/P	40 - 150
2348048	Mandestrobin	100	104	P/P	40 - 150
2348048	MCPP	95.0	113	P/P	40 - 150
2348048	Naproxen	85.0	82.8	P/P	40 - 150
2348048	Primidone	99.1	99.4	P/P	40 - 150
2348048	Pyraclostrobin	97.7	104	P/P	40 - 150
2348048	Silvex	90.4	111	P/P	40 - 150
2348048	Thiamethoxam	137	140	P/P	40 - 150
2348048	Tolfenpyrad	62.5	59.2	P/P	30 - 150
2348048	Triclopyr	83.1	96.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348450	3-Hydroxycarbofuran	98.5	96.1	P/P	40 - 150
2348450	Aldicarb	46.1	48.2	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P417969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348450	Aldicarb Sulfone	112	120	P/P	40 - 150
2348450	Aldicarb Sulfoxide	56.9	60.0	P/P	40 - 150
2348450	Carbaryl	72.2	89.1	P/P	40 - 150
2348450	Carbofuran	70.9	72.7	P/P	40 - 150
2348450	Methiocarb	107	94.9	P/P	40 - 150
2348450	Methomyl	86.5	91.2	P/P	40 - 150
2348450	Oxamyl	102	108	P/P	40 - 150
2348450	Propoxur	69.1	69.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P418316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348883	Fluoride	98.2	98.9	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P418317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349241	Fluoride	97.7	97.7	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P418235

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347940	Organic Carbon	95.8	96.5	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P418344

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348741	Organic Carbon	98.1	99.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P418004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348119	Color (true)	2.70	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P418006

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347971	Color (true)	0.0627	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348082	Turbidity	6.01	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418012

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348462	Calcium	0.0466	Spike	P	0 - 20
2348462	Iron	1.85	Spike	P	0 - 20
2348462	Magnesium	1.61	Spike	P	0 - 20
2348462	Potassium	0.957	Spike	P	0 - 20
2348462	Sodium	0.242	Spike	P	0 - 20
2348462	Strontium	0.255	Spike	P	0 - 20
2348462	Tin	1.77	Spike	P	0 - 20
2348462	Titanium	1.07	Spike	P	0 - 20
2348462	Vanadium	0.0495	Spike	P	0 - 20
2348462	Zinc	0.816	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418012

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348462	Antimony	0.956	Spike	P	0 - 20
2348462	Arsenic	0.382	Spike	P	0 - 20
2348462	Barium	1.95	Spike	P	0 - 20
2348462	Beryllium	1.26	Spike	P	0 - 20
2348462	Boron	1.34	Spike	P	0 - 20
2348462	Cadmium	0.265	Spike	P	0 - 20
2348462	Chromium	0.298	Spike	P	0 - 20
2348462	Cobalt	0.0585	Spike	P	0 - 20
2348462	Copper	0.491	Spike	P	0 - 20
2348462	Lead	0.0568	Spike	P	0 - 20
2348462	Manganese	1.02	Spike	P	0 - 20
2348462	Molybdenum	0.0842	Spike	P	0 - 20
2348462	Nickel	0.201	Spike	P	0 - 20
2348462	Selenium	0.0245	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418012

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348462	Silver	0.653	Spike	P	0 - 20
2348462	Thallium	3.32	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348461	Aluminum	13.1	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348147	Chloride	2.16	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348147	Sulfate	2.37	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348227	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418329

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348394	Ammonia-N	0.332	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348227	Kjeldahl Nitrogen	4.88	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348086	Kjeldahl Nitrogen	0.711	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418145

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348084	NO2NO3-N	2.54	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348303	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418191

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348390	Total-P	0.312	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351460	Total-P	2.16	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P418168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348187	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	4.62	Spike	P	0 - 30
2348187	Acetochlor	20.4	Spike	P	0 - 27
2348187	Alachlor	24.1	Spike	P	0 - 27
2348187	Ametryn	1.12	Spike	P	0 - 34
2348187	Atrazine	3.06	Spike	P	0 - 41
2348187	Atrazine Desethyl	3.60	Spike	P	0 - 38
2348187	Avobenzene	4.40	Spike	P	0 - 30
2348187	Azinphos Methyl	9.80	Spike	P	0 - 62
2348187	Azoxystrobin	14.7	Spike	P	0 - 32
2348187	Bromacil	6.94	Spike	P	0 - 30
2348187	Butylate	2.07	Spike	P	0 - 59
2348187	Caffeine	0.242	Spike	P	0 - 60
2348187	Carbophenothion	6.85	Spike	P	0 - 25
2348187	Carfentrazone Ethyl	6.96	Spike	P	0 - 26
2348187	Chlorfenapyr	9.15	Spike	P	0 - 30
2348187	Chlorpyrifos Ethyl	1.42	Spike	P	0 - 27
2348187	Chlorpyrifos Methyl	13.4	Spike	P	0 - 26
2348187	Coumaphos	11.8	Spike	P	0 - 30
2348187	Cyanazine	4.83	Spike	P	0 - 58
2348187	Cyprodinil	12.0	Spike	P	0 - 30
2348187	Dechlorane Plus	4.39	Spike	P	0 - 30
2348187	Demeton	13.5	Spike	P	0 - 25
2348187	Diazinon	17.5	Spike	P	0 - 29

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P418168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348187	Difenoconazole	16.3	Spike	P	0 - 25
2348187	Dimethenamid	16.9	Spike	P	0 - 30
2348187	Dimethomorph	9.90	Spike	P	0 - 30
2348187	Disulfoton	14.9	Spike	P	0 - 33
2348187	Dithiopyr	13.7	Spike	P	0 - 22
2348187	EPTC	14.4	Spike	P	0 - 38
2348187	Ethion	4.40	Spike	P	0 - 79
2348187	Ethoprop	14.2	Spike	P	0 - 23
2348187	Etridiazole	0.0601	Spike	P	0 - 30
2348187	Fenamiphos	2.10	Spike	P	0 - 58
2348187	Fenbuconazole	10.5	Spike	P	0 - 37
2348187	Fipronil	19.3	Spike	P	0 - 33
2348187	Fipronil Desulfiny	6.80	Spike	P	0 - 26
2348187	Fipronil Sulfide	13.4	Spike	P	0 - 37
2348187	Fipronil Sulfone	11.4	Spike	P	0 - 50
2348187	Fluazifop-P-butyl	10.8	Spike	P	0 - 24
2348187	Fludioxonil	21.4	Spike	P	0 - 26
2348187	Flumioxazin	24.4	Spike	P	0 - 37
2348187	Flutolanil	16.3	Spike	P	0 - 26
2348187	Fluxapyroxad	10.6	Spike	P	0 - 34
2348187	Fonofos	4.66	Spike	P	0 - 27
2348187	Hexazinone	10.9	Spike	P	0 - 36
2348187	Imazalil	4.33	Spike	P	0 - 65
2348187	Iprodione	12.3	Spike	P	0 - 33
2348187	Loratadine	10.4	Spike	P	0 - 30
2348187	Malathion	12.1	Spike	P	0 - 44
2348187	Metalaxyl	10.2	Spike	P	0 - 38
2348187	Metolachlor	12.9	Spike	P	0 - 36
2348187	Metribuzin	22.0	Spike	P	0 - 63
2348187	Mevinphos	9.87	Spike	P	0 - 26
2348187	Molinate	6.03	Spike	P	0 - 40
2348187	Myclobutanil	11.1	Spike	P	0 - 21
2348187	Naled	34.4	Spike	F	0 - 26
2348187	Napropamide	15.3	Spike	P	0 - 30
2348187	Norflurazon	18.1	Spike	P	0 - 24
2348187	Octinoxate	6.95	Spike	P	0 - 30
2348187	Oxadiazon	6.63	Spike	P	0 - 27
2348187	Oxybenzone	1.29	Spike	P	0 - 30
2348187	Oxyfluorfen	16.5	Spike	P	0 - 24
2348187	Parathion Ethyl	13.9	Spike	P	0 - 28
2348187	Parathion Methyl	17.8	Spike	P	0 - 27
2348187	PBDE-47	5.50	Spike	P	0 - 30
2348187	PBDE-99	5.21	Spike	P	0 - 30
2348187	Pendimethalin	13.0	Spike	P	0 - 31
2348187	Phenytoin	21.5	Spike	P	0 - 30
2348187	Phorate	13.5	Spike	P	0 - 27
2348187	Prodiamine	8.63	Spike	P	0 - 52
2348187	Prometon	3.00	Spike	P	0 - 31
2348187	Prometryn	5.77	Spike	P	0 - 28
2348187	Pronamide	16.3	Spike	P	0 - 26
2348187	Propanil	23.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P418168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348187	Propargite	12.9	Spike	P	0 - 30
2348187	Propiconazole	15.2	Spike	P	0 - 31
2348187	Pyraflufen Ethyl	11.5	Spike	P	0 - 30
2348187	Pyridaben	4.00	Spike	P	0 - 30
2348187	Pyriproxyfen	21.8	Spike	P	0 - 50
2348187	Simazine	0.368	Spike	P	0 - 29
2348187	Stirophos	5.16	Spike	P	0 - 30
2348187	Sulfentrazone	15.6	Spike	P	0 - 33
2348187	Tebuconazole	8.02	Spike	P	0 - 44
2348187	Terbufos	14.1	Spike	P	0 - 29
2348187	Terbuthylazine	14.0	Spike	P	0 - 27
2348187	Thiobencarb	15.5	Spike	P	0 - 30
2348187	Tri-o-cresyl Phosphate	4.42	Spike	P	0 - 30
2348187	Triadimefon	14.6	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P418171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348185	PCB-1016	15.4	Spike	P	0 - 32
2348185	PCB-1260	12.3	Spike	P	0 - 31
2348248	Aldrin	8.53	Spike	P	0 - 41
2348248	Alpha-BHC	15.7	Spike	P	0 - 25
2348248	Alpha-Chlordane	5.00	Spike	P	0 - 33
2348248	Beta-BHC	9.44	Spike	P	0 - 36
2348248	Beta-Cyfluthrin	4.65	Spike	P	0 - 42
2348248	Bifenthrin	23.0	Spike	P	0 - 53
2348248	Carbophenothion	7.89	Spike	P	0 - 49
2348248	Chlorothalonil	13.2	Spike	P	0 - 71
2348248	Cis-Nonachlor	1.10	Spike	P	0 - 29
2348248	Cypermethrin	2.93	Spike	P	0 - 40
2348248	Dacthal	7.47	Spike	P	0 - 26
2348248	DDD-p,p'	2.31	Spike	P	0 - 39
2348248	DDE-p,p'	1.96	Spike	P	0 - 33
2348248	DDT-p,p'	4.55	Spike	P	0 - 40
2348248	Delta-BHC	9.24	Spike	P	0 - 37
2348248	Deltamethrin	6.22	Spike	P	0 - 100
2348248	Dichlobenil	2.08	Spike	P	0 - 40
2348248	Dicofol	14.7	Spike	P	0 - 31
2348248	Dieldrin	0.407	Spike	P	0 - 27
2348248	Endosulfan I	2.34	Spike	P	0 - 23
2348248	Endosulfan II	4.02	Spike	P	0 - 28
2348248	Endosulfan Sulfate	1.59	Spike	P	0 - 38
2348248	Endrin	2.50	Spike	P	0 - 63
2348248	Endrin Aldehyde	9.74	Spike	P	0 - 60
2348248	Endrin Ketone	5.64	Spike	P	0 - 37
2348248	Esfenvalerate	4.98	Spike	P	0 - 52
2348248	Ethalfuralin	7.17	Spike	P	0 - 23
2348248	Fenpropathrin	1.18	Spike	P	0 - 32
2348248	Gamma-BHC	15.7	Spike	P	0 - 17

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348248	Gamma-Chlordane	2.66	Spike	P	0 - 40
2348248	Heptachlor	6.73	Spike	P	0 - 29
2348248	Heptachlor Epoxide	1.51	Spike	P	0 - 25
2348248	Hexachlorobenzene	9.37	Spike	P	0 - 36
2348248	Kepone	11.8	Spike	P	0 - 93
2348248	Lambda-Cyhalothrin	0.985	Spike	P	0 - 55
2348248	Methoprene	19.8	Spike	P	0 - 53
2348248	Methoxychlor	24.3	Spike	P	0 - 29
2348248	MGK-264	13.8	Spike	P	0 - 35
2348248	Mirex	3.46	Spike	P	0 - 46
2348248	Oxychlordane	7.12	Spike	P	0 - 29
2348248	Permethrin	0.592	Spike	P	0 - 44
2348248	Phenothrin	6.87	Spike	P	0 - 56
2348248	Piperonyl Butoxide	7.28	Spike	P	0 - 100
2348248	Prallethrin	3.21	Spike	P	0 - 42
2348248	Tau-Fluvalinate	4.69	Spike	P	0 - 54
2348248	Tetramethrin	13.3	Spike	P	0 - 51
2348248	Trans-Nonachlor	1.34	Spike	P	0 - 37
2348248	Triclosan Methyl	2.23	Spike	P	0 - 31
2348248	Trifluralin	4.86	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P418171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348185	Chlordane	19.6	Spike	P	0 - 25
2348185	Toxaphene	14.9	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P417966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348339	Acesulfame K	3.75	Spike	P	0 - 30
2348339	AMPA	2.43	Spike	P	0 - 30
2348339	Endothall	6.38	Spike	P	0 - 30
2348339	Glufosinate	2.79	Spike	P	0 - 30
2348339	Glyphosate	4.12	Spike	P	0 - 30
2348339	Sucralose	1.98	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P417968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348048	2,4-D	20.4	Spike	P	0 - 30
2348048	2,4,5-T	16.5	Spike	P	0 - 30
2348048	Acetaminophen	1.60	Spike	P	0 - 30
2348048	Acetamiprid	1.57	Spike	P	0 - 30
2348048	Afidopyropen	11.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P417968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348048	Bentazon	1.55	Spike	P	0 - 30
2348048	Benzovindiflupyr	1.15	Spike	P	0 - 30
2348048	Carbamazepine	2.63	Spike	P	0 - 30
2348048	Clothianidin	7.87	Spike	P	0 - 30
2348048	Dinotefuran	3.63	Spike	P	0 - 30
2348048	Diuron	5.54	Spike	P	0 - 30
2348048	Fenuron	0.820	Spike	P	0 - 30
2348048	Fluridone	19.1	Spike	P	0 - 30
2348048	Hydrocodone	10.9	Spike	P	0 - 30
2348048	Ibuprofen	27.7	Spike	P	0 - 30
2348048	Imazapyr	14.0	Spike	P	0 - 30
2348048	Imidacloprid	1.39	Spike	P	0 - 30
2348048	Linuron	38.4	Spike	F	0 - 30
2348048	Mandestrobin	3.60	Spike	P	0 - 30
2348048	MCPP	17.1	Spike	P	0 - 30
2348048	Naproxen	2.61	Spike	P	0 - 30
2348048	Primidone	0.312	Spike	P	0 - 30
2348048	Pyraclostrobin	6.64	Spike	P	0 - 30
2348048	Silvex	20.9	Spike	P	0 - 30
2348048	Thiamethoxam	2.01	Spike	P	0 - 30
2348048	Tolfenpyrad	5.46	Spike	P	0 - 30
2348048	Triclopyr	15.3	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P417969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348450	3-Hydroxycarbofuran	2.49	Spike	P	0 - 30
2348450	Aldicarb	4.52	Spike	P	0 - 30
2348450	Aldicarb Sulfone	6.95	Spike	P	0 - 30
2348450	Aldicarb Sulfoxide	5.20	Spike	P	0 - 30
2348450	Carbaryl	21.0	Spike	P	0 - 30
2348450	Carbofuran	2.50	Spike	P	0 - 30
2348450	Methiocarb	12.1	Spike	P	0 - 30
2348450	Methomyl	5.26	Spike	P	0 - 30
2348450	Oxamyl	5.34	Spike	P	0 - 30
2348450	Propoxur	0.229	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P418313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348883	Total Alkalinity	0.267	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P418314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
--------------------------	-----------	-----------	-------------------	-----------	----------------

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P418314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349241	Total Alkalinity	0.106	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P418451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348225	TDS	4.33	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P418452

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348285	TDS	4.79	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P418316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348883	Fluoride	0.476	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P418317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349241	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P418235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347940	Organic Carbon	0.637	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P418344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348741	Organic Carbon	0.741	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2348242
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	77.4	P	30 - 160

Lab Sample ID: 2348243
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	96.4	P	30 - 160
EPA 8321B	Diuron-d6	97.4	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	109	P	30 - 160
EPA 8321B	Primidone-d5	81.4	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Lab Sample ID: 2348244
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	65.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	94.7	P	30 - 160
EPA 8321B	Diuron-d6	88.6	P	30 - 160
EPA 8321B	Endothall-d6	116	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	131	P	30 - 160
EPA 8321B	Primidone-d5	94.0	P	30 - 160
EPA 8321B	Sucralose-d6	106	P	30 - 160

Lab Sample ID: 2348248
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	56.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	50.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	37.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	43.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	41.7	P	30 - 101
EPA 8276	PCNB	62.1	P	48 - 121

Lab Sample ID: 2348249
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	76.2	P	20 - 200
EPA 8270E	Simazine-d10	130	P	71 - 140
EPA 8270E	Terbufos-d10	110	P	62 - 131
EPA 8270E	Terphenyl-d14	86.0	P	52 - 141

Quality Assurance Report Surrogates

Lab Sample ID: 2348250
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	60.9	P	29 - 130
EPA 8270E	Decachlorobiphenyl	63.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	36.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	39.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	49.6	P	30 - 101
EPA 8276	PCNB	63.9	P	48 - 121

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A114038

Included Lab Sample IDs: 2348225, 2348226, 2348229, 2348231

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	103	P/P	90 - 110
Color (true)	104	105	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114039

Included Lab Sample IDs: 2348225, 2348226, 2348229, 2348231

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: A114078

Included Lab Sample IDs: 2348254

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	95.8	94.1	P/P	90 - 110
Arsenic	99.2	99.7	P/P	90 - 110
Barium	97.9	96.4	P/P	90 - 110
Beryllium	93.0	91.2	P/P	90 - 110
Boron	99.8	99.1	P/P	90 - 110
Cadmium	98.7	97.8	P/P	90 - 110
Chromium	97.1	96.7	P/P	90 - 110
Cobalt	94.0	94.2	P/P	90 - 110
Copper	97.9	98.5	P/P	90 - 110
Manganese	98.1	96.2	P/P	90 - 110
Molybdenum	95.2	95.5	P/P	90 - 110
Nickel	97.6	98.0	P/P	90 - 110
Selenium	97.0	96.0	P/P	90 - 110
Silver	93.5	93.6	P/P	90 - 110
Thallium	101	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114095

Included Lab Sample IDs: 2348243, 2348244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.3	98.8	P/P	60 - 160
Endothall	102	100	P/P	60 - 160
Glufosinate	98.8	95.3	P/P	60 - 160
Glyphosate	101	96.4	P/P	60 - 160
Glyphosate	101	108	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114110

Included Lab Sample IDs: 2348254

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	95.2	94.9	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8321B

Run ID: A114121

Included Lab Sample IDs: 2348243, 2348244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	87.9	P/P	50 - 150
2,4-D	90.0	105	P/P	50 - 150
2,4,5-T	122	120	P/P	50 - 150
2,4,5-T	87.1	122	P/P	50 - 150
3-Hydroxycarbofuran	104	99.6	P/P	60 - 150
Acetaminophen	109	110	P/P	60 - 160
Acetaminophen	110	107	P/P	60 - 160
Acetamiprid	73.9	75.0	P/P	50 - 150
Acetamiprid	75.0	90.6	P/P	50 - 150
Afidopyropen	86.3	94.4	P/P	50 - 150
Afidopyropen	96.3	86.3	P/P	50 - 150
Aldicarb	115	115	P/P	60 - 150
Aldicarb Sulfone	100	101	P/P	50 - 150
Aldicarb Sulfoxide	109	110	P/P	50 - 150
Bentazon	102	101	P/P	50 - 160
Bentazon	94.8	102	P/P	50 - 160
Benzovindiflupyr	113	119	P/P	50 - 150
Benzovindiflupyr	113	113	P/P	50 - 150
Carbamazepine	106	116	P/P	60 - 150
Carbamazepine	116	115	P/P	60 - 150
Carbaryl	105	109	P/P	60 - 150
Carbofuran	112	101	P/P	50 - 150
Clothianidin	79.8	71.9	P/P	60 - 150
Clothianidin	99.0	79.8	P/P	60 - 150
Dinotefuran	104	104	P/P	50 - 150
Dinotefuran	104	111	P/P	50 - 150
Diuron	105	105	P/P	60 - 160
Diuron	105	101	P/P	60 - 160
Fenuron	75.0	81.7	P/P	60 - 150
Fenuron	99.5	75.0	P/P	60 - 150
Fluridone	107	104	P/P	60 - 160
Fluridone	96.6	107	P/P	60 - 160
Hydrocodone	104	85.2	P/P	60 - 150
Hydrocodone	85.2	78.0	P/P	60 - 150
Ibuprofen	73.5	97.6	P/P	50 - 160
Ibuprofen	90.2	73.5	P/P	50 - 160
Imazapyr	100	76.3	P/P	50 - 150
Imazapyr	76.3	70.1	P/P	50 - 150
Imidacloprid	77.3	84.3	P/P	60 - 150
Imidacloprid	84.3	86.8	P/P	60 - 150
Linuron	125	141	P/P	60 - 150
Linuron	141	125	P/P	60 - 150
Mandestrobin	106	109	P/P	50 - 150
Mandestrobin	109	115	P/P	50 - 150
MCPP	101	108	P/P	50 - 150
MCPP	108	106	P/P	50 - 150
Methiocarb	103	132	P/P	50 - 150
Methomyl	101	97.1	P/P	50 - 150
Naproxen	74.3	98.4	P/P	50 - 160
Naproxen	98.4	143	P/P	50 - 160
Oxamyl	102	102	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A114121

Included Lab Sample IDs: 2348243, 2348244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	107	92.7	P/P	60 - 150
Primidone	92.7	93.5	P/P	60 - 150
Propoxur	96.9	105	P/P	50 - 150
Pyraclostrobin	108	116	P/P	60 - 150
Pyraclostrobin	116	123	P/P	60 - 150
Silvex	112	91.2	P/P	50 - 150
Silvex	98.5	112	P/P	50 - 150
Thiamethoxam	103	79.7	P/P	50 - 150
Thiamethoxam	79.7	80.1	P/P	50 - 150
Tolfenpyrad	105	107	P/P	60 - 150
Tolfenpyrad	106	105	P/P	60 - 150
Triclopyr	103	94.1	P/P	50 - 150
Triclopyr	94.1	112	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114122

Included Lab Sample IDs: 2348227, 2348228, 2348230, 2348232

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.0	96.0	P/P	90 - 110
NO2NO3-N	98.5	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114138

Included Lab Sample IDs: 2348243, 2348244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	92.9	91.4	P/P	60 - 160
Sucralose	97.8	98.7	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114142

Included Lab Sample IDs: 2348225, 2348226, 2348229, 2348231

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.6	97.8	P/P	90 - 110
Sulfate	101	99.2	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114155

Included Lab Sample IDs: 2348227, 2348228, 2348230

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	96.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114160

Included Lab Sample IDs: 2348227, 2348228, 2348230, 2348232

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.3	99.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114160

Included Lab Sample IDs: 2348227, 2348228, 2348230, 2348232

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.4	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114163

Included Lab Sample IDs: 2348232

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

Reference Method: EPA 8270E

Run ID: A114182

Included Lab Sample IDs: 2348248

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.3		P	80 - 120
Alpha-Chlordane	95.9		P	80 - 120
Beta-BHC	99.8		P	80 - 120
Beta-Cyfluthrin	88.6		P	80 - 120
Bifenthrin	100		P	80 - 120
Chlorothalonil	119		P	80 - 120
Cis-Nonachlor	94.2		P	80 - 120
Cypermethrin	89.1		P	80 - 120
Dacthal	98.0		P	80 - 120
DDD-p,p'	96.4		P	80 - 120
DDE-p,p'	96.8		P	80 - 120
DDT-p,p'	99.9		P	80 - 120
Delta-BHC	99.3		P	80 - 120
Deltamethrin	86.5		P	80 - 120
Dichlobenil	93.0		P	80 - 120
Dicofol	85.1		P	80 - 120
Dieldrin	96.4		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	94.4		P	80 - 120
Endosulfan Sulfate	84.8		P	80 - 120
Endrin	95.4		P	80 - 120
Endrin Aldehyde	91.0		P	80 - 120
Esfenvalerate	91.6		P	80 - 120
Ethalfuralin	100		P	80 - 120
Fenpropathrin	97.0		P	80 - 120
Gamma-BHC	118		P	80 - 120
Gamma-Chlordane	96.1		P	80 - 120
Heptachlor	92.1		P	80 - 120
Heptachlor Epoxide	98.9		P	80 - 120
Hexachlorobenzene	99.3		P	80 - 120
Kepone	50.6*		F	80 - 120
Lambda-Cyhalothrin	92.8		P	80 - 120
Methoprene	94.6		P	80 - 120
Methoxychlor	137*		F	80 - 120
MGK-264	91.3		P	80 - 120
Mirex	98.0		P	80 - 120
Oxychlordane	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114182
Included Lab Sample IDs: 2348248

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Permethrin	92.4		P	80 - 120
Phenothrin	89.7		P	80 - 120
Piperonyl Butoxide	91.7		P	80 - 120
Prallethrin	87.0		P	80 - 120
Tau-Fluvalinate	89.4		P	80 - 120
Tetramethrin	114		P	80 - 120
Trans-Nonachlor	97.7		P	80 - 120
Triclosan Methyl	99.6		P	80 - 120
Trifluralin	98.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114183
Included Lab Sample IDs: 2348248, 2348250

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.9		P	80 - 120
PCB-1260	98.3		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A114186
Included Lab Sample IDs: 2348225, 2348226, 2348229, 2348231

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	99.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A114186
Included Lab Sample IDs: 2348225, 2348226, 2348229, 2348231

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114189
Included Lab Sample IDs: 2348227, 2348228, 2348230, 2348232

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.7	P/P	90 - 110
Ammonia-N	99.9	100	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A114194
Included Lab Sample IDs: 2348232

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114198

Included Lab Sample IDs: 2348254

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.5	99.5	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A114201

Included Lab Sample IDs: 2348248, 2348250

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114225

Included Lab Sample IDs: 2348254

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.5	97.7	P/P	90 - 110
Iron	99.4	96.9	P/P	90 - 110
Magnesium	100	97.1	P/P	90 - 110
Potassium	100	97.9	P/P	90 - 110
Sodium	97.0	96.8	P/P	90 - 110
Strontium	99.9	98.2	P/P	90 - 110
Tin	102	99.4	P/P	90 - 110
Titanium	101	99.4	P/P	90 - 110
Vanadium	101	99.3	P/P	90 - 110
Zinc	101	97.9	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114245

Included Lab Sample IDs: 2348248, 2348250

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.6		P	80 - 120
Alpha-BHC	85.0		P	80 - 120
Alpha-Chlordane	111		P	80 - 120
Beta-BHC	86.9		P	80 - 120
Beta-Cyfluthrin	101		P	80 - 120
Bifenthrin	98.1		P	80 - 120
Carbophenothion	104		P	80 - 120
Chlorothalonil	95.9		P	80 - 120
Cis-Nonachlor	114		P	80 - 120
Cypermethrin	99.8		P	80 - 120
Dacthal	114		P	80 - 120
DDD-p,p'	98.8		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	89.0		P	80 - 120
Deltamethrin	113		P	80 - 120
Dichlobenil	90.8		P	80 - 120
Dicofol	115		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	96.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A114245

Included Lab Sample IDs: 2348248, 2348250

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	89.1		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	115		P	80 - 120
Endrin Ketone	93.7		P	80 - 120
Esfenvalerate	93.8		P	80 - 120
Ethalfuralin	90.0		P	80 - 120
Fenpropathrin	112		P	80 - 120
Gamma-BHC	86.3		P	80 - 120
Gamma-Chlordane	114		P	80 - 120
Heptachlor	99.9		P	80 - 120
Heptachlor Epoxide	108		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	94.9		P	80 - 120
Lambda-Cyhalothrin	91.1		P	80 - 120
Methoprene	103		P	80 - 120
Methoxychlor	103		P	80 - 120
MGK-264	96.5		P	80 - 120
Mirex	99.7		P	80 - 120
Oxychlordane	89.7		P	80 - 120
Permethrin	96.1		P	80 - 120
Phenothrin	92.8		P	80 - 120
Piperonyl Butoxide	90.2		P	80 - 120
Prallethrin	107		P	80 - 120
Tau-Fluvalinate	101		P	80 - 120
Tetramethrin	93.0		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	111		P	80 - 120
Trifluralin	93.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114271

Included Lab Sample IDs: 2348249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.4		P	80 - 120
Avobenzene	100		P	80 - 120
Dechlorane Plus	99.8		P	80 - 120
Octinoxate	96.0		P	80 - 120
Oxybenzone	100		P	80 - 120
PBDE-47	97.4		P	80 - 120
PBDE-99	96.8		P	80 - 120
Tri-o-cresyl Phosphate	98.0		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114289

Included Lab Sample IDs: 2348249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	97.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114289
Included Lab Sample IDs: 2348249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ametryn	109		P	80 - 120
Atrazine Desethyl	95.1		P	80 - 120
Azinphos Methyl	107		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	98.8		P	80 - 120
Butylate	98.2		P	80 - 120
Caffeine	108		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	108		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	103		P	80 - 120
Cyanazine	89.3		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	99.8		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethomorph	100		P	80 - 120
Disulfoton	97.2		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	98.3		P	80 - 120
Ethion	105		P	80 - 120
Ethoprop	103		P	80 - 120
Etridiazole	98.4		P	80 - 120
Fenamiphos	105		P	80 - 120
Fenbuconazole	104		P	80 - 120
Fipronil	98.6		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	98.2		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	103		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	96.0		P	80 - 120
Imazalil	103		P	80 - 120
Iprodione	99.2		P	80 - 120
Loratadine	95.4		P	80 - 120
Malathion	97.8		P	80 - 120
Metalaxyl	99.3		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	98.0		P	80 - 120
Molinate	101		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	103		P	80 - 120
Napropamide	105		P	80 - 120
Norflurazon	98.2		P	80 - 120
Oxadiazon	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114289
Included Lab Sample IDs: 2348249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxyfluorfen	99.9		P	80 - 120
Parathion Ethyl	98.9		P	80 - 120
Parathion Methyl	97.4		P	80 - 120
Pendimethalin	95.3		P	80 - 120
Phenytoin	102		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	105		P	80 - 120
Prometon	99.1		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	94.7		P	80 - 120
Propanil	92.8		P	80 - 120
Propargite	98.8		P	80 - 120
Propiconazole	100		P	80 - 120
Pyraflufen Ethyl	98.7		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	97.8		P	80 - 120
Stirophos	107		P	80 - 120
Sulfentrazone	99.4		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	101		P	80 - 120
Terbutylazine	101		P	80 - 120
Thiobencarb	99.2		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114407
Included Lab Sample IDs: 2348228, 2348230

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

Reference Method: EPA 8270E
Run ID: A114409
Included Lab Sample IDs: 2348249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	97.1		P	80 - 120
Dimethenamid	104		P	80 - 120
Metolachlor	102		P	80 - 120
Simazine	93.3		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114425
Included Lab Sample IDs: 2348227

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	97.8	P/P	90 - 110

Quality Assurance Report

Calibration Verification

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	103					2.70	
	Color (true)	103					0.0627	
EPA 180.1 Rev. 2.0	Turbidity	96.7					6.01	
EPA 200.7 Rev. 4.4	Calcium	102	105	103				0.0466
	Iron	108	108	110	110			1.85
	Magnesium	102	103	106				1.61
	Potassium	105	106	105	105			0.957
	Sodium	103	105	104	102			0.242
	Strontium	108	107	108	107			0.255
	Tin	110	106	108	109			1.77
	Titanium	108	105	104	107			1.07
	Vanadium	103	104	104	103			0.0495
	Zinc	105	100	101	102			0.816
EPA 200.8 Rev. 5.4	Aluminum	102	103	119	101			13.1
	Antimony	96.8	96.1	97.1	91.5			0.956
	Arsenic	95.5	95.8	95.5	94.6			0.382
	Barium	101	100	103	98.5			1.95
	Beryllium	91.3	90.4	91.6	86.8			1.26
	Boron	101	100	102	96.4			1.34
	Cadmium	92.8	95.3	95.6	90.7			0.265
	Chromium	93.6	96.1	95.8	94.0			0.298
	Cobalt	93.0	91.9	92.0	91.2			0.0585
	Copper	95.2	93.9	95.1	94.4			0.491
	Lead	95.5	97.6	97.7	92.6			0.0568
	Manganese	95.4	97.2	98.9	92.8			1.02
	Molybdenum	93.3	95.5	95.4	91.5			0.0842
	Nickel	96.2	95.8	95.9	96.2			0.201
	Selenium	96.6	95.1	95.2	91.1			0.0245
	Silver	92.7	94.0	94.6	91.4			0.653
	Thallium	90.9	93.7	96.9	91.9			3.32
EPA 300.0 Rev. 2.1	Chloride	98.9	98.0	98.1			2.16	
	Sulfate	98.6	98.0	97.9			2.37	
EPA 350.1 Rev. 2.0	Ammonia-N	96.2	96.6	96.6				0.0
	Ammonia-N	95.2	98.2	98.6				0.332
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108						4.88
	Kjeldahl Nitrogen	107						0.711
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0	99.5	97.0				2.54
	NO2NO3-N	96.0	93.5	93.5				0.0
EPA 365.1 Rev. 2.0	Total-P	103	100	101				0.312
	Total-P	98.9	99.4	102				2.16
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.1	121	126				4.62
	Acetochlor	90.4	82.3	101				20.4
	Alachlor	82.5	70.4	89.7				24.1
	Aldrin	38.6	47.3	51.5				8.53
	Alpha-BHC	74.6	69.6	81.4				15.7
	Alpha-Chlordane	55.6	42.9	45.5				5.00
	Ametryn	93.7	67.9	66.2				1.12
	Atrazine	90.5						3.06
	Atrazine Desethyl	63.5	53.6	57.8				3.60
	Avobenzone	88.9	95.6	99.9				4.40
	Azinphos Methyl	98.1	87.3	96.3				9.80
	Azoxystrobin	97.1	93.8	116				14.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Beta-BHC	95.4	99.7	110			9.44
	Beta-Cyfluthrin	45.1	61.4	58.6			4.65
	Bifenthrin	45.6	75.9	60.2			23.0
	Bromacil	79.4	80.8	86.6			6.94
	Butylate	37.2	29.6	30.2			2.07
	Caffeine	83.4	98.5	98.3			0.242
	Carbophenothion	81.2	71.5	76.5			6.85
	Carbophenothion	35.1	43.6	47.2			7.89
	Carfentrazone Ethyl	89.9	77.3	82.9			6.96
	Chlorfenapyr	85.8	67.8	74.3			9.15
	Chlorothalonil	104	166	190			13.2
	Chlorpyrifos Ethyl	88.8	98.0	99.4			1.42
	Chlorpyrifos Methyl	92.7	84.0	96.0			13.4
	Cis-Nonachlor	47.7	42.4	41.9			1.10
	Coumaphos	87.5	75.2	84.6			11.8
	Cyanazine	82.6	78.4	82.3			4.83
	Cypermethrin	47.1	63.1	61.3			2.93
	Cyprodinil	85.1	76.2	85.9			12.0
	Dacthal	72.1	62.4	67.2			7.47
	DDD-p,p'	56.3	44.2	43.2			2.31
	DDE-p,p'	54.4	39.3	40.2			1.96
	DDT-p,p'	59.9	56.7	59.5			4.55
	Dechlorane Plus	112	139	133			4.39
	Delta-BHC	102	115	126			9.24
	Deltamethrin	57.6	80.3	75.5			6.22
	Demeton	69.5	72.9	83.4			13.5
	Diazinon	84.5	77.4	92.3			17.5
	Dichlobenil	64.2	42.1	41.3			2.08
	Dicofol	72.0	105	90.5			14.7
	Dieldrin	60.7	47.1	46.9			0.407
	Difenoconazole	102	97.8	115			16.3
	Dimethenamid	70.5	68.9	81.6			16.9
	Dimethomorph	83.7	96.2	106			9.90
	Disulfoton	81.9	78.6	91.3			14.9
	Dithiopyr	92.5	61.3	73.6			13.7
	Endosulfan I	68.6	59.4	60.8			2.34
	Endosulfan II	59.3	45.2	43.4			4.02
	Endosulfan Sulfate	68.5	49.5	50.3			1.59
	Endrin	59.5	50.8	49.6			2.50
	Endrin Aldehyde	63.9	40.2	36.5			9.74
	Endrin Ketone	73.7	81.2	76.7			5.64
	EPTC	33.9	28.7	24.8			14.4
	Esfenvalerate	42.9	67.5	64.3			4.98
	Ethalfuralin	61.6	64.0	68.8			7.17
	Ethion	91.8	73.6	70.4			4.40
	Ethoprop	72.6	79.1	91.2			14.2
	Etridiazole	38.7	37.5	37.5			0.0601
	Fenamiphos	86.6	70.7	72.2			2.10
	Fenbuconazole	89.1	74.7	83.0			10.5
	Fenpropathrin	46.7	50.1	49.6			1.18
	Fipronil	86.5	74.9	92.7			19.3
	Fipronil Desulfinyl	94.5	94.7	105			6.80
	Fipronil Sulfide	81.5	76.5	94.1			13.4
	Fipronil Sulfone	76.8					11.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Fluazifop-P-butyl	90.9	78.0	86.9		10.8
	Fludioxonil	81.1	72.2	89.5		21.4
	Flumioxazin	106	98.0	125		24.4
	Flutolanil	86.7	51.2	63.1		16.3
	Fluxapyroxad	80.1	72.0	83.5		10.6
	Fonofos	79.1	81.9	85.8		4.66
	Gamma-BHC	83.4	94.0	110		15.7
	Gamma-Chlordane	53.1	51.6	53.0		2.66
	Heptachlor	53.4	54.2	58.0		6.73
	Heptachlor Epoxide	64.0	58.5	59.4		1.51
	Hexachlorobenzene	58.7	63.6	69.8		9.37
	Hexazinone	84.4	90.0	100		10.9
	Imazalil	77.3	80.4	77.0		4.33
	Iprodione	85.2	70.8	80.1		12.3
	Kepone	110	83.7	74.4		11.8
	Lambda-Cyhalothrin	35.9	62.6	62.0		0.985
	Loratadine	80.4	91.6	102		10.4
	Malathion	98.1	91.5	103		12.1
	Metalaxyl	83.8	74.4	82.4		10.2
	Methoprene	30.3	50.1	61.1		19.8
	Methoxychlor	101	103	80.8		24.3
	Metolachlor	81.4	76.3	92.7		12.9
	Metribuzin	96.3	93.8	117		22.0
	Mevinphos	64.0	67.7	74.7		9.87
	MGK-264	63.2	57.7	66.3		13.8
	Mirex	37.4	42.2	40.8		3.46
	Molinate	48.9	49.0	52.1		6.03
	Myclobutanil	87.2	92.4	114		11.1
	Naled	75.7	73.9	105		34.4
	Napropamide	76.7	63.3	73.8		15.3
	Norflurazon	77.8	65.1	78.1		18.1
	Octinoxate	91.3	103	110		6.95
	Oxadiazon	71.7				6.63
	Oxybenzone	82.7	107	106		1.29
	Oxychlordane	63.6	68.8	64.1		7.12
	Oxyfluorfen	98.7	90.1	106		16.5
	Parathion Ethyl	90.6	87.9	101		13.9
	Parathion Methyl	98.7	96.2	115		17.8
	PBDE-47	91.9	108	114		5.50
	PBDE-99	95.6	106	111		5.21
	PCB-1016	91.3	80.4	68.9		15.4
	PCB-1260	91.2	78.7	69.6		12.3
	Pendimethalin	94.0	100	114		13.0
	Permethrin	44.4	62.5	62.1		0.592
	Phenothrin	25.5	52.3	56.0		6.87
	Phenytol	49.2	36.8	45.7		21.5
	Phorate	68.0	68.4	78.3		13.5
	Piperonyl Butoxide	85.4	77.0	83.5		7.28
	Prallethrin	56.2	55.7	57.5		3.21
	Prodamine	42.3	48.8	53.2		8.63
	Prometon	75.0	74.7	72.5		3.00
	Prometryn	81.6	73.1	77.4		5.77
	Pronamide	93.2	77.9	91.8		16.3
	Propanil	83.7	68.8	86.9		23.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
						LCS	
EPA 8270E	Propargite	76.4		52.5	59.7		12.9
	Propiconazole	77.6		74.6	95.0		15.2
	Pyraflufen Ethyl	77.9		64.9	72.8		11.5
	Pyridaben	91.4		101	96.8		4.00
	Pyriproxyfen	81.9		61.4	76.5		21.8
	Simazine	84.2					0.368
	Stirophos	80.2		61.7	64.9		5.16
	Sulfentrazone	70.8		84.1	113		15.6
	Tau-Fluvalinate	35.1		60.9	58.1		4.69
	Tebuconazole	65.7		49.6	54.6		8.02
	Terbufos	93.7		98.3	113		14.1
	Terbutylazine	85.6		82.6	95.1		14.0
	Tetramethrin	77.7		64.0	56.0		13.3
	Thiobencarb	80.6		67.9	79.3		15.5
	Trans-Nonachlor	51.8		47.3	48.0		1.34
	Tri-o-cresyl Phosphate	91.8		96.2	101		4.42
	Triadimefon	85.3		67.3	77.9		14.6
	Triclosan Methyl	62.6		50.2	51.3		2.23
	Trifluralin	62.5		63.5	66.7		4.86
	Chlordane	94.3		82.5	67.8		19.6
EPA 8276	Toxaphene	90.9		89.5	77.1		14.9
EPA 8321B	2,4-D	119		93.9	115		20.4
	2,4,5-T	99.8		87.1	103		16.5
	3-Hydroxycarbofuran	91.7		98.5	96.1		2.49
	Acesulfame K	99.5		95.7	92.2		3.75
	Acetaminophen	91.4		87.0	88.4		1.60
	Acetamiprid	95.5		87.6	88.9		1.57
	Afidopyropen	73.4		82.9	74.1		11.2
	Aldicarb	55.0		46.1	48.2		4.52
	Aldicarb Sulfone	110		112	120		6.95
	Aldicarb Sulfoxide	110		56.9	60.0		5.20
	AMPA	101		79.7	82.1		2.43
	Bentazon	99.2		81.5	80.3		1.55
	Benzovindiflupyr	108		103	104		1.15
	Carbamazepine	108		112	115		2.63
	Carbaryl	101		89.1	72.2		21.0
	Carbofuran	95.8		72.7	70.9		2.50
	Clothianidin	102		114	123		7.87
	Dinotefuran	108		126	131		3.63
	Diuron	77.5		87.4	92.4		5.54
	Endothall	107		96.5	103		6.38
	Fenuron	104		99.2	98.4		0.820
	Fluridone	106		96.4	117		19.1
	Glufosinate	101		101	97.9		2.79
	Glyphosate	105		75.9	80.5		4.12
	Hydrocodone	103		108	121		10.9
	Ibuprofen	119		70.2	92.7		27.7
	Imazapyr	110		109	126		14.0
	Imidacloprid	100		131	132		1.39
	Linuron	97.7		136	92.0		38.4
	Mandestrobin	107		100	104		3.60
	MCPP	111		95.0	113		17.1
	Methiocarb	117		94.9	107		12.1
	Methomyl	99.7		86.5	91.2		5.26

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Naproxen	84.4	85.0	82.8		2.61
	Oxamyl	113	102	108		5.34
	Primidone	100	99.1	99.4		0.312
	Propoxur	83.4	69.1	69.2		0.229
	Pyraclostrobin	100	97.7	104		6.64
	Silvex	111	90.4	111		20.9
	Sucralose	102	99.9	95.9		1.98
	Thiamethoxam	114	137	140		2.01
	Tolfenpyrad	86.7	62.5	59.2		5.46
	Triclopyr	96.0	83.1	96.9		15.3
SM 2320 B-2011	Total Alkalinity	101			0.267	
	Total Alkalinity	98.9			0.106	
SM 2540 C-2011	TDS				4.33	
	TDS				4.79	
SM 4500-F- C-2011	Fluoride	100	98.2	98.9		0.476
	Fluoride	99.5	97.7	97.7		0.0
SM 5310 B-2011	Organic Carbon	96.2	95.8	96.5		0.637
	Organic Carbon	94.2	98.1	99.1		0.741

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2348225, 2348226, 2348229, 2348231
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2348225, 2348226, 2348229, 2348231
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2348254
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2348254
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2348225, 2348226, 2348229, 2348231
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2348225, 2348226, 2348229, 2348231
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2348227, 2348228, 2348230, 2348232
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2348227, 2348228, 2348230, 2348232
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2348227, 2348228, 2348230, 2348232
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2348227, 2348228, 2348230, 2348232
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2348249
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2348248, 2348250
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2348249
EPA 8270E	PCBs in water matrices by GC/MS/MS	2348248, 2348250
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2348248, 2348250
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2348242
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2348243, 2348244
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2348225, 2348226, 2348229, 2348231
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2348254
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2348225, 2348226, 2348229, 2348231
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2348225, 2348226, 2348229, 2348231
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2348225, 2348226, 2348229, 2348231
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2348227, 2348228, 2348230, 2348232

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	08/11/2022			08/11/2022 16:02	Anna M. Plaviak	2348225
	08/11/2022			08/11/2022 16:03	Anna M. Plaviak	2348229
	08/11/2022			08/11/2022 16:04	Anna M. Plaviak	2348231
	08/11/2022			08/11/2022 16:27	Anna M. Plaviak	2348226
EPA 180.1 Rev. 2.0	08/11/2022			08/11/2022 15:00	Khloe J Berg	2348225
	08/11/2022			08/11/2022 15:01	Khloe J Berg	2348226
	08/11/2022			08/11/2022 15:04	Khloe J Berg	2348229
	08/11/2022			08/11/2022 15:06	Khloe J Berg	2348231
EPA 200.7 Rev. 4.4	08/11/2022	08/12/2022 10:30	Mackenzie Hunt	08/19/2022 23:16	McKinley C Carter	2348254
EPA 200.8 Rev. 5.4	08/11/2022	08/12/2022 10:30	Mackenzie Hunt	08/13/2022 00:31	Emily M Philpot	2348254
	08/11/2022	08/12/2022 10:30	Mackenzie Hunt	08/15/2022 19:35	Alexander Thompson	2348254
	08/11/2022	08/17/2022 11:10	Megan Whitefoot	08/18/2022 13:41	Emily M Philpot	2348254
EPA 300.0 Rev. 2.1	08/11/2022			08/18/2022 16:44	Anna M. Plaviak	2348225
	08/11/2022			08/18/2022 16:56	Anna M. Plaviak	2348226
	08/11/2022			08/18/2022 17:08	Anna M. Plaviak	2348229
	08/11/2022			08/18/2022 17:20	Anna M. Plaviak	2348231
EPA 350.1 Rev. 2.0	08/11/2022			08/18/2022 11:34	Ping Hua	2348227
	08/11/2022			08/18/2022 11:36	Ping Hua	2348228
	08/11/2022			08/18/2022 11:37	Ping Hua	2348230
	08/11/2022			08/18/2022 11:57	Ping Hua	2348232
EPA 351.2 Rev. 2.0	08/11/2022	08/16/2022 13:42	Samantha L Bates	08/17/2022 13:09	Alexandra J Mattheus	2348227
	08/11/2022	08/16/2022 13:42	Samantha L Bates	08/17/2022 13:14	Alexandra J Mattheus	2348230
	08/11/2022	08/16/2022 13:42	Samantha L Bates	08/17/2022 14:06	Alexandra J Mattheus	2348228
	08/11/2022	08/16/2022 13:42	Samantha L Bates	08/17/2022 14:08	Alexandra J Mattheus	2348232
EPA 353.2 Rev. 2.0	08/11/2022			08/16/2022 09:31	Beverly Y. Sanders	2348227
	08/11/2022			08/16/2022 09:44	Beverly Y. Sanders	2348228
	08/11/2022			08/16/2022 09:46	Beverly Y. Sanders	2348230
	08/11/2022			08/16/2022 09:47	Beverly Y. Sanders	2348232
EPA 365.1 Rev. 2.0	08/11/2022	08/17/2022 08:50	Simonne.V. Calhoun	08/17/2022 15:36	James L Waggeberby	2348232
	08/11/2022	08/26/2022 08:28	Simonne.V. Calhoun	08/29/2022 13:54	James L Waggeberby	2348228
	08/11/2022	08/26/2022 08:28	Simonne.V. Calhoun	08/29/2022 13:58	James L Waggeberby	2348230
	08/11/2022	08/26/2022 08:28	Simonne.V. Calhoun	08/30/2022 11:34	Simonne.V. Calhoun	2348227
EPA 8270E	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/17/2022 19:25	Vandana T. Nagar	2348248
	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 02:11	Julie Wi	2348248
	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 02:41	Julie Wi	2348250
	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 20:07	Vandana T. Nagar	2348248
	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 22:07	Vandana T. Nagar	2348250
	08/11/2022	08/17/2022 08:30	Rasheda Ghaffari	08/22/2022 19:55	Lipi Saha	2348249
	08/11/2022	08/17/2022 08:30	Rasheda Ghaffari	08/23/2022 18:54	Michael Poppell	2348249
	08/11/2022	08/17/2022 08:30	Rasheda Ghaffari	08/28/2022 21:24	Michael Poppell	2348249

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	08/11/2022	08/17/2022 08:30	Rasheda Ghaffari	08/28/2022 21:51	Michael Poppell	2348249
EPA 8276	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 13:21	Arthur Maknenko	2348248
	08/11/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 14:16	Arthur Maknenko	2348250
EPA 8321B	08/11/2022	08/12/2022 11:00	June Rhew	08/13/2022 00:59	Umesh Chiluwal	2348243
	08/11/2022	08/12/2022 11:00	June Rhew	08/13/2022 01:14	Umesh Chiluwal	2348244
	08/11/2022	08/12/2022 11:00	June Rhew	08/13/2022 18:41	Umesh Chiluwal	2348243
	08/11/2022	08/12/2022 11:00	June Rhew	08/13/2022 18:54	Umesh Chiluwal	2348244
	08/11/2022	08/12/2022 11:00	June Rhew	08/14/2022 04:52	Umesh Chiluwal	2348243
	08/11/2022	08/15/2022 09:00	Hoor Shaik	08/16/2022 06:26	Juyoung Kim	2348243
	08/11/2022	08/15/2022 09:00	Hoor Shaik	08/16/2022 07:07	Juyoung Kim	2348244
	08/11/2022	08/15/2022 09:30	June Rhew	08/15/2022 22:48	Juyoung Kim	2348242
SM 2320 B-2011	08/11/2022			08/18/2022 04:47	Dale L. Simmons	2348225
	08/11/2022			08/18/2022 06:09	Dale L. Simmons	2348226
	08/11/2022			08/18/2022 06:23	Dale L. Simmons	2348229
	08/11/2022			08/18/2022 06:37	Dale L. Simmons	2348231
SM 2340 B-2011	08/11/2022			08/19/2022 23:16	McKinley C Carter	2348254
SM 2540 C-2011	08/11/2022			08/16/2022 16:02	Yijie Li	2348225, 2348226, 2348229, 2348231
SM 2540 D-2011	08/11/2022			08/16/2022 16:02	Yijie Li	2348225, 2348226, 2348229, 2348231
SM 4500-F- C-2011	08/11/2022			08/18/2022 04:47	Dale L. Simmons	2348225
	08/11/2022			08/18/2022 06:09	Dale L. Simmons	2348226
	08/11/2022			08/18/2022 06:23	Dale L. Simmons	2348229
	08/11/2022			08/18/2022 06:37	Dale L. Simmons	2348231
SM 5310 B-2011	08/11/2022			08/17/2022 01:42	Khloe J Berg	2348227
	08/11/2022			08/17/2022 01:56	Khloe J Berg	2348228
	08/11/2022			08/17/2022 02:10	Khloe J Berg	2348230
	08/11/2022			08/17/2022 17:48	Khloe J Berg	2348232