

Chemical Analysis Report

SW-DIST-2022-09-09-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Run 10**
Request ID: **RQ-2022-08-29-02**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 06-OCT-2022 14:52

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

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: White Trout Lake @ Center

Collection Date/Time: 09/08/2022 11:00

Field ID: G1SW0104

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355410	DEP SOP: NU-094-1	Color (true)	14		PCU	P419384	
	EPA 180.1 Rev. 2.0	Turbidity	0.70	I	NTU	P419378	
	EPA 300.0 Rev. 2.1	Chloride	31		mg Cl/L	P419774	
	SM 2320 B-2011	Total Alkalinity	39	A	mg CaCO3/L	P419767	
	SM 2540 C-2011	TDS	112		mg/L	P419798	
	SM 2540 D-2011	TSS	2	I	mg/L	P419816	
	SM 4500-F- C-2011	Fluoride	0.10		mg F/L	P419771	
2355411	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P419640	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.61		mg N/L	P419520	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P419896	
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P419594	
	SM 5310 B-2011	Organic Carbon	6.1		mg C/L	P419638	
2355412	EPA 300.0 Rev. 2.1 dissolved	Sulfate	19		mg SO4/L	P419942	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P419373	

Ref. Method and Comment:

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

Sample Location: Little Lake Wilson Center

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

Field ID: G1SW0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355407	DEP SOP: NU-094-1	Color (true)	36		PCU	P419384	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P419378	
	EPA 300.0 Rev. 2.1	Chloride	66		mg Cl/L	P419774	
	SM 2320 B-2011	Total Alkalinity	73		mg CaCO3/L	P419767	
	SM 2540 C-2011	TDS	190		mg/L	P419798	
	SM 2540 D-2011	TSS	5	I	mg/L	P419816	
	SM 4500-F- C-2011	Fluoride	0.076	I	mg F/L	P419771	
2355408	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P419640	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P419519	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P419896	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P419594	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P419638	
2355409	EPA 300.0 Rev. 2.1 dissolved	Sulfate	1.5		mg SO4/L	P419942	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P419373	
2355419	EPA 8321B	Aldicarb	0.020	UJ	ug/L	P419489	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P419489	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P419489	MS
		Carbaryl	0.0020	U	ug/L	P419489	
		Carbofuran	0.0020	U	ug/L	P419489	
		3-Hydroxycarbofuran	0.0020	UJ	ug/L	P419489	RPD
		Methiocarb	0.0020	U	ug/L	P419489	
		Methomyl	0.0020	U	ug/L	P419489	
		Oxamyl	0.0020	U	ug/L	P419489	
		Propoxur	0.0020	U	ug/L	P419489	
		2,4-D	0.011		ug/L	P419554	
		Acesulfame K	0.32	I	ug/L	P419298	
		2,4,5-T	0.0040	U	ug/L	P419554	
2355420		AMPA	1.5		ug/L	P419298	
		Acetaminophen	0.0080	U	ug/L	P419554	
		Acetamiprid	0.0020	U	ug/L	P419554	
		Endothall	0.25	U	ug/L	P419298	
		Glufosinate	0.10	U	ug/L	P419298	
		Glyphosate	1.2		ug/L	P419298	
		Afidopyropen	0.0020	U	ug/L	P419554	
		Bentazon	0.019		ug/L	P419554	
		Sucralose	0.91		ug/L	P419298	
		Benzovindiflupyr	0.0020	U	ug/L	P419554	
		Carbamazepine	8.0E-04	U	ug/L	P419554	RPD
		Clothianidin	0.0024	I	ug/L	P419554	
		Dinotefuran	0.0020	U	ug/L	P419554	
		Diuron	0.0020	U	ug/L	P419554	
		Fenuron	0.032	U	ug/L	P419554	
		Fluridone	0.0062		ug/L	P419554	

Field ID: G1SW0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355420	EPA 8321B	Imazapyr	0.014	I	ug/L	P419554	MS
		Hydrocodone	0.0020	U	ug/L	P419554	
		Ibuprofen	0.080	U	ug/L	P419554	
		Imidacloprid	0.0039	I	ug/L	P419554	
		Linuron	0.0040	U	ug/L	P419554	
		Mandestrobin	0.0020	U	ug/L	P419554	
		MCPP	0.0040	U	ug/L	P419554	
		Naproxen	0.0080	U	ug/L	P419554	
		Primidone	0.017		ug/L	P419554	
		Pyraclostrobin	0.0020	U	ug/L	P419554	
		Silvex	0.0040	U	ug/L	P419554	
		Thiamethoxam	0.0020	U	ug/L	P419554	
		Tolfenpyrad	0.0020	U	ug/L	P419554	
		Triclopyr	0.0040	U	ug/L	P419554	
2355421	EPA 8270E	Aldrin	0.71	U	ng/L	P419360	LCS
		Alpha-BHC	0.11	U	ng/L	P419360	
		Alpha-Chlordane	0.22	U	ng/L	P419360	
		PCB-1016	2.2	U	ng/L	P419360	
		Beta-BHC	0.11	U	ng/L	P419360	
		PCB-1221	2.2	U	ng/L	P419360	
		Beta-Cyfluthrin	1.4	U	ng/L	P419360	
		PCB-1232	2.2	U	ng/L	P419360	
		Bifenthrin	0.55	U	ng/L	P419360	
		PCB-1242	2.2	U	ng/L	P419360	
		PCB-1248	2.2	U	ng/L	P419360	
		Chlorothalonil	1.4	U	ng/L	P419360	
		PCB-1254	2.2	U	ng/L	P419360	
		Cis-Nonachlor	0.22	U	ng/L	P419360	
		PCB-1260	2.2	U	ng/L	P419360	
		Cypermethrin	1.6	U	ng/L	P419360	
		Dacthal	0.16	U	ng/L	P419360	
		DDD-p,p'	0.27	U	ng/L	P419360	
		DDE-p,p'	0.22	U	ng/L	P419360	
		DDT-p,p'	0.27	U	ng/L	P419360	
		Delta-BHC	0.44	U	ng/L	P419360	
		Deltamethrin	1.4	U	ng/L	P419360	
		Dichlobenil	0.27	U	ng/L	P419360	
		Dicofol	1.4	UJ	ng/L	P419360	
		Dieldrin	0.44	U	ng/L	P419360	
		Endosulfan I	0.44	U	ng/L	P419360	
		Endosulfan II	0.44	U	ng/L	P419360	
		Endosulfan Sulfate	0.33	U	ng/L	P419360	
		Endrin	0.44	U	ng/L	P419360	
		Endrin Aldehyde	0.82	U	ng/L	P419360	
		Endrin Ketone	0.44	U	ng/L	P419360	

Field ID: G1SW0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2355421	EPA 8270E	Esfenvalerate	0.82	U	ng/L	P419360	CCV	
		Ethalfuralin	0.16	U	ng/L	P419360		
		Fenpropathrin	0.27	U	ng/L	P419360		
		Gamma-BHC	0.14	U	ng/L	P419360		
		Gamma-Chlordane	0.22	U	ng/L	P419360		
		Heptachlor	0.22	U	ng/L	P419360		
		Heptachlor Epoxide	0.27	U	ng/L	P419360		
		Hexachlorobenzene**	1.1	U	ng/L	P419360		
		Kepone	5.5	U	ng/L	P419360		
		Lambda-Cyhalothrin	0.82	U	ng/L	P419360		
		Methoprene	0.82	U	ng/L	P419360		
		Methoxychlor	0.33	UJ	ng/L	P419360		
		MGK-264	0.22	U	ng/L	P419360		
		Mirex	0.38	U	ng/L	P419360		
		Oxychlordane	0.33	U	ng/L	P419360		
		Permethrin	1.8	U	ng/L	P419360		
		Phenothrin	0.98	U	ng/L	P419360		
		Piperonyl Butoxide	0.43	I	ng/L	P419360		
		Prallethrin	2.2	U	ng/L	P419360		
		Tau-Fluvalinate	0.27	U	ng/L	P419360		
		Tetramethrin	0.82	UJ	ng/L	P419360		
		Trans-Nonachlor	0.22	U	ng/L	P419360		
		Triclosan Methyl	0.16	U	ng/L	P419360		
		Trifluralin	0.22	U	ng/L	P419360		
	EPA 8276	Chlordane	2.7	U	ng/L	P419360	CCV	
		Toxaphene	16	U	ng/L	P419360		
2355422	EPA 8270E	Oxybenzone**	9.6	UQ	ng/L	P420385	SUR	
		Acetochlor	0.24	U	ng/L	P419392		
		Octinoxate**	19	UQ	ng/L	P420385		
		Alachlor	0.24	U	ng/L	P419392		
		Avobenzone**	96	UQ	ng/L	P420385		
		Ametryn	0.58	U	ng/L	P419392		
		Atrazine	120		ng/L	P419392		
		PBDE-47**	3.8	UQ	ng/L	P420385		
		Atrazine Desethyl	17		ng/L	P419392		
		PBDE-99**	4.8	UQ	ng/L	P420385		
		Azinphos Methyl	1.9	UJ	ng/L	P419392		
		Tri-o-cresyl Phosphate**	5.7	UQ	ng/L	P420385		
		Azoxystrobin	0.49	U	ng/L	P419392		
		Bromacil	0.49	U	ng/L	P419392		
		2-Ethylhexyl	11	UQ	ng/L	P420385		
		2,3,4,5-tetrabromobenzoate (EHTBB)**						
		Butylate	0.39	U	ng/L	P419392		
		Dechlorane Plus**	29	UQ	ng/L	P420385		
		Caffeine**	7.3	U	ng/L	P419392		

Field ID: G1SW0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355422	EPA 8270E	Carbophenothion	0.19	UJ	ng/L	P419392	SUR
		Carfentrazone Ethyl	0.097	U	ng/L	P419392	
		Chlorfenapyr	0.17	U	ng/L	P419392	
		Chlorpyrifos Ethyl	0.24	UJ	ng/L	P419392	SUR
		Chlorpyrifos Methyl	0.049	UJ	ng/L	P419392	SUR
		Coumaphos	0.49	UJ	ng/L	P419392	SUR
		Cyanazine	3.2	U	ng/L	P419392	
		Cyprodinil	0.097	U	ng/L	P419392	
		Demeton	1.5	UJ	ng/L	P419392	SUR
		Diazinon	0.12	UJ	ng/L	P419392	SUR
		Difenoconazole	0.58	U	ng/L	P419392	
		Dimethenamid	0.18	I	ng/L	P419392	
		Dimethomorph	0.17	U	ng/L	P419392	
		Disulfoton	0.49	UJ	ng/L	P419392	SUR
		Dithiopyr	1.6	V	ng/L	P419392	
		EPTC	1.2	U	ng/L	P419392	
		Ethion	0.15	UJ	ng/L	P419392	SUR
		Ethoprop	0.097	UJ	ng/L	P419392	SUR
		Etridiazole	0.15	U	ng/L	P419392	
		Fenamiphos	0.49	UJ	ng/L	P419392	SUR
		Fenbuconazole	0.12	U	ng/L	P419392	
		Fipronil	0.24	UJ	ng/L	P419392	LCS
		Fipronil Desulfinyl**	1.1		ng/L	P419392	
		Fipronil Sulfide	0.54	I J	ng/L	P419392	LCS
		Fipronil Sulfone	1.5		ng/L	P419392	
		Fluazifop-P-butyl	0.097	U	ng/L	P419392	
		Fludioxonil	0.12	U	ng/L	P419392	
		Flumioxazin	1.7	U	ng/L	P419392	
		Flutolanil	0.097	U	ng/L	P419392	
		Fluxapyroxad	0.12	I	ng/L	P419392	RPD
		Fonofos	0.19	UJ	ng/L	P419392	SUR
		Hexazinone	0.55	I	ng/L	P419392	
		Imazalil	0.73	U	ng/L	P419392	
		Iprodione	0.58	U	ng/L	P419392	
		Loratadine**	0.14	I	ng/L	P419392	
		Malathion	0.34	UJ	ng/L	P419392	SUR
		Metalaxyl	0.73	U	ng/L	P419392	
		Metolachlor	0.50	I	ng/L	P419392	
		Metribuzin	2.4	U	ng/L	P419392	
		Mevinphos	1.0	UJ	ng/L	P419392	SUR
		Molinate	0.29	U	ng/L	P419392	
		Myclobutanil	0.24	U	ng/L	P419392	
		Naled	1.5	UJ	ng/L	P419392	SUR
		Napropamide	0.39	U	ng/L	P419392	
		Norflurazon	0.49	U	ng/L	P419392	

Field ID: G1SW0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355422	EPA 8270E	Oxadiazon	0.29	I	ng/L	P419392	
		Oxyfluorfen	0.15	U	ng/L	P419392	MS
		Parathion Ethyl	0.24	UJ	ng/L	P419392	SUR
		Parathion Methyl	0.53	UJ	ng/L	P419392	SUR
		Pendimethalin	0.97	U	ng/L	P419392	
		Phenytol**	3.4	U	ng/L	P419392	MS, RPD
		Phorate	0.51	UJ	ng/L	P419392	SUR
		Prodiamine	0.17	U	ng/L	P419392	
		Prometon	0.87	U	ng/L	P419392	
		Prometryn	0.19	U	ng/L	P419392	MS
		Pronamide	0.15	U	ng/L	P419392	
		Propanil	0.12	U	ng/L	P419392	
		Propargite	1.5	U	ng/L	P419392	
		Propiconazole	4.4		ng/L	P419392	
		Pyraflufen Ethyl	0.24	U	ng/L	P419392	
		Pyridaben	9.3		ng/L	P419392	
		Pyriproxyfen	0.12	U	ng/L	P419392	
		Simazine	0.49	U	ng/L	P419392	
		Stirophos	0.12	UJ	ng/L	P419392	RPD, SUR
		Sulfentrazone	1.3	I	ng/L	P419392	
		Tebuconazole	5.3		ng/L	P419392	
		Terbufos	0.097	UJ	ng/L	P419392	SUR
		Terbutylazine	0.41	U	ng/L	P419392	
		Thiobencarb	0.58	U	ng/L	P419392	
		Triadimefon	0.24	U	ng/L	P419392	

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

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

EPA 8270E: Sample expired for preparation due to need for re-extraction.

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 one of the Method Blanks and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Field Blank

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

Field ID: FB09082022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2355413	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P419384	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P419378	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P419775	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P419884	
	SM 2540 C-2011	TDS	15	U	mg/L	P419798	
	SM 2540 D-2011	TSS	2	U	mg/L	P419816	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P419772	
2355414	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P419640	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P419519	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P419896	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P419594	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P419638	
2355415	EPA 300.0 Rev. 2.1 dissolved	Sulfate	0.20	U	mg SO4/L	P419942	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P419373	

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.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P419384

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419378

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419774

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419775

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P419942

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419640

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419519

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419520

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419896

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: P419594

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P419373

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

Reference Method: EPA 8270E

Batch ID: P419360

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419360

Component	Result	Code	Units
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419360

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

Reference Method: EPA 8270E

Batch ID: P419392

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419392

Component	Result	Code	Units
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.36	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419392

Component	Result	Code	Units
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419392

Component	Result	Code	Units
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P420385

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
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Octinoxate	27	I	ng/L
Octinoxate	24	I	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276

Batch ID: P419360

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

Reference Method: EPA 8321B

Batch ID: P419298

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: P419489

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

Reference Method: EPA 8321B

Batch ID: P419554

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P419554

Component	Result	Code	Units
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P419767

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

Reference Method: SM 2320 B-2011
Batch ID: P419884

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

Reference Method: SM 2540 C-2011
Batch ID: P419798

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P419816

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419771

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419772

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419638

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: P419384

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.4		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419774

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419775

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

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P419942

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419640

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419519

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	104		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419520

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419896

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	96.5		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P419594

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P419373

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

Reference Method: EPA 8270E
 Batch ID: P419360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.5		P	10 - 92.0
Alpha-BHC	86.5		P	75 - 107
Alpha-Chlordane	74.8		P	50 - 108
Beta-BHC	116		P	36 - 138
Beta-Cyfluthrin	63.8		P	20 - 161
Bifenthrin	46.8		P	10 - 119
Chlorothalonil	133		P	26 - 186
Cis-Nonachlor	58.0		P	42 - 119
Cypermethrin	45.9		P	22 - 150
Dacthal	94.6		P	72 - 119
DDD-p,p'	47.0		P	45 - 107
DDE-p,p'	74.2		P	48 - 106
DDT-p,p'	71.9		P	48 - 110
Delta-BHC	135		P	54 - 140
Deltamethrin	80.5		P	22 - 189
Dichlobenil	92.9		P	36 - 117
Dicofol	37.0		F	46 - 155
Dieldrin	55.7		P	54 - 110
Endosulfan I	84.1		P	59 - 105
Endosulfan II	85.2		P	51 - 118
Endosulfan Sulfate	97.1		P	57 - 121
Endrin	83.8		P	10 - 120
Endrin Aldehyde	61.2		P	34 - 118
Endrin Ketone	90.9		P	69 - 177
Esfenvalerate	68.5		P	23 - 168
Ethalfuralin	63.7		P	49 - 99.0
Fenpropathrin	58.6		P	34 - 117
Gamma-BHC	97.3		P	72 - 117
Gamma-Chlordane	71.5		P	43 - 106
Heptachlor	42.6		P	41 - 98.0
Heptachlor Epoxide	79.2		P	57 - 106
Hexachlorobenzene	64.0		P	36 - 99.0
Kepone	213		P	16 - 215
Lambda-Cyhalothrin	41.5		P	21 - 177
Methoprene	54.4		P	10 - 119
Methoxychlor	92.7		P	60 - 112
MGK-264	83.4		P	26 - 122
Mirex	40.5		P	10 - 169
Oxychlordane	71.5		P	43 - 105
PCB-1016	73.4		P	48 - 112

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P419360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1260	75.7		P	44 - 118
Permethrin	45.2		P	24 - 148
Phenothrin	29.2		P	10 - 106
Piperonyl Butoxide	108		P	10 - 139
Prallethrin	65.0		P	17 - 109
Tau-Fluvalinate	52.8		P	13 - 131
Tetramethrin	77.4		P	10 - 132
Trans-Nonachlor	76.8		P	44 - 106
Triclosan Methyl	79.6		P	59 - 109
Trifluralin	65.9		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P419392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	86.6		P	70 - 121
Alachlor	79.9		P	68 - 119
Ametryn	79.2		P	64 - 139
Atrazine	81.1		P	76 - 120
Atrazine Desethyl	61.3		P	44 - 126
Azinphos Methyl	109		P	43 - 192
Azoxystrobin	104		P	36 - 224
Bromacil	108		P	52 - 121
Butylate	40.8		P	28 - 91.0
Caffeine	72.6		P	50 - 134
Carbophenothion	81.0		P	56 - 129
Carfentrazone Ethyl	88.8		P	60 - 141
Chlorfenapyr	83.3		P	56 - 115
Chlorpyrifos Ethyl	106		P	60 - 118
Chlorpyrifos Methyl	93.1		P	68 - 119
Coumaphos	144		P	18 - 250
Cyanazine	130		P	61 - 250
Cyprodinil	107		P	55 - 145
Demeton	85.9		P	30 - 159
Diazinon	118		P	70 - 123
Difenoconazole	112		P	49 - 204
Dimethenamid	69.5		P	64 - 115
Dimethomorph	89.4		P	12 - 219
Disulfoton	80.3		P	44 - 125
Dithiopyr	92.7		P	64 - 115
EPTC	46.8		P	28 - 86.0
Ethion	86.8		P	33 - 125
Ethoprop	84.1		P	64 - 116
Etridiazole	50.6		P	34 - 91.0
Fenamiphos	85.0		P	12 - 127
Fenbuconazole	111		P	59 - 151
Fipronil	55.0		F	67 - 129
Fipronil Desulfinyl	72.4		P	65 - 127
Fipronil Sulfide	52.5		F	61 - 116
Fipronil Sulfone	70.1		P	55 - 117
Fluazifop-P-butyl	87.8		P	62 - 127
Fludioxonil	86.3		P	62 - 128

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P419392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Flumioxazin	98.3		P	33 - 250
Flutolanil	89.7		P	56 - 127
Fluxapyroxad	104		P	45 - 128
Fonofos	81.6		P	62 - 111
Hexazinone	87.2		P	46 - 139
Imazalil	74.8		P	38 - 142
Iprodione	134		P	47 - 135
Loratadine	113		P	10 - 244
Malathion	95.7		P	61 - 139
Metalaxyl	89.4		P	10 - 119
Metolachlor	93.8		P	65 - 118
Metribuzin	89.5		P	51 - 250
Mevinphos	73.2		P	53 - 121
Molinate	61.5		P	42 - 96.0
Myclobutanil	98.2		P	55 - 128
Naled	83.8		P	10 - 98.0
Napropamide	67.8		P	49 - 121
Norflurazon	82.8		P	61 - 126
Oxadiazon	77.1		P	59 - 116
Oxyfluorfen	98.5		P	64 - 137
Parathion Ethyl	74.6		P	70 - 112
Parathion Methyl	98.3		P	76 - 133
Pendimethalin	74.4		P	52 - 117
Phenytoin	25.2		P	10 - 199
Phorate	82.0		P	48 - 121
Prodiamine	57.5		P	26 - 142
Prometon	77.1		P	43 - 123
Prometryn	109		P	66 - 127
Pronamide	117		P	75 - 121
Propanil	74.4		P	45 - 150
Propargite	120		P	42 - 208
Propiconazole	92.8		P	60 - 125
Pyraflufen Ethyl	92.4		P	70 - 138
Pyridaben	124		P	35 - 245
Pyriproxyfen	121		P	30 - 149
Simazine	83.8		P	72 - 125
Stirophos	80.5		P	29 - 164
Sulfentrazone	96.7		P	21 - 139
Tebuconazole	82.8		P	10 - 115
Terbufos	111		P	60 - 123
Terbuthylazine	81.3		P	72 - 115
Thiobencarb	76.5		P	31 - 139
Triadimefon	78.5		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P420385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.4		P	42 - 162
Avobenzone	96.4		P	40 - 203
Dechlorane Plus	123		P	47 - 182
Octinoxate	78.2		P	26 - 166

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P420385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxybenzone	65.1		P	49 - 135
PBDE-47	71.0		P	41 - 148
PBDE-99	85.5		P	38 - 147
Tri-o-cresyl Phosphate	76.9		P	49 - 150

Reference Method: EPA 8276
Batch ID: P419360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	80.8		P	61 - 116
Toxaphene	78.4		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P419298

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	100		P	40 - 150
AMPA	97.9		P	40 - 150
Endothall	85.2		P	40 - 150
Glufosinate	81.4		P	40 - 150
Glyphosate	107		P	40 - 150
Sucralose	94.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	130		P	40 - 150
Aldicarb	64.4		P	30 - 150
Aldicarb Sulfone	118		P	40 - 150
Aldicarb Sulfoxide	110		P	40 - 150
Carbaryl	94.6		P	40 - 150
Carbofuran	92.8		P	40 - 150
Methiocarb	115		P	40 - 150
Methomyl	108		P	40 - 150
Oxamyl	93.7		P	40 - 150
Propoxur	101		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419554

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	88.1		P	40 - 150
2,4,5-T	77.0		P	40 - 150
Acetaminophen	123		P	30 - 150
Acetamiprid	81.0		P	40 - 150
Afidopyropen	146		P	30 - 150
Bentazon	110		P	30 - 150
Benzovindiflupyr	99.7		P	40 - 150
Carbamazepine	78.6		P	40 - 150
Clothianidin	105		P	40 - 150
Dinotefuran	101		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P419554

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diuron	99.0		P	40 - 150
Fenuron	107		P	40 - 150
Fluridone	113		P	40 - 150
Hydrocodone	103		P	40 - 150
Ibuprofen	41.9		P	40 - 150
Imazapyr	93.1		P	40 - 150
Imidacloprid	110		P	40 - 150
Linuron	89.5		P	40 - 150
Mandestrobin	121		P	40 - 150
MCPP	76.2		P	40 - 150
Naproxen	59.1		P	40 - 150
Primidone	73.2		P	40 - 150
Pyraclostrobin	89.9		P	40 - 150
Silvex	70.6		P	40 - 150
Thiamethoxam	82.0		P	40 - 150
Tolfenpyrad	55.1		P	30 - 150
Triclopyr	72.2		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P419767

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	94 - 106

Reference Method: SM 2320 B-2011

Batch ID: P419884

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.7		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P419771

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

Reference Method: SM 4500-F- C-2011

Batch ID: P419772

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

Reference Method: SM 5310 B-2011

Batch ID: P419638

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P419774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355233	Chloride	97.6		P	90 - 110
2355262	Chloride	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P419775

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355474	Chloride	98.5		P	90 - 110
2355588	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1 dissolved

Batch ID: P419942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355979	Sulfate	97.1		P	90 - 110
2356095	Sulfate	96.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P419640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355411	Ammonia-N	96.4	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P419520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355256	Kjeldahl Nitrogen	112	103	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P419896

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355378	NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P419594

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355380	Total-P	101	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P419373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355409	O-Phosphate-P	99.3	99.8	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P419360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355149	PCB-1016	69.6	69.1	P/P	46 - 111

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P419360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355149	PCB-1260	55.7	56.4	P/P	45 - 114
2355301	Aldrin	75.3	74.2	P/P	20 - 82.0
2355301	Alpha-BHC	91.7	94.9	P/P	71 - 109
2355301	Alpha-Chlordane	90.2	88.2	P/P	42 - 106
2355301	Beta-BHC	84.0	106	P/P	69 - 180
2355301	Beta-Cyfluthrin	89.6	91.2	P/P	18 - 175
2355301	Bifenthrin	97.2	80.1	P/P	21 - 128
2355301	Chlorothalonil	126	145	P/P	10 - 300
2355301	Cis-Nonachlor	67.2	65.6	P/P	34 - 106
2355301	Cypermethrin	67.2	69.5	P/P	22 - 158
2355301	Dacthal	89.3	91.7	P/P	54 - 116
2355301	DDD-p,p'	51.2	50.8	P/P	34 - 107
2355301	DDE-p,p'	85.7	86.2	P/P	33 - 110
2355301	DDT-p,p'	82.8	83.4	P/P	50 - 122
2355301	Delta-BHC	115	132	P/P	77 - 193
2355301	Deltamethrin	117	116	P/P	10 - 195
2355301	Dichlobenil	57.2	63.0	P/P	25 - 113
2355301	Dicofol	49.2	46.8	P/P	38 - 247
2355301	Dieldrin	64.1	62.2	P/P	45 - 118
2355301	Endosulfan I	94.4	92.2	P/P	51 - 106
2355301	Endosulfan II	81.8	83.1	P/P	37 - 122
2355301	Endosulfan Sulfate	78.7	92.4	P/P	43 - 132
2355301	Endrin	92.0	89.2	P/P	29 - 101
2355301	Endrin Aldehyde	45.5	52.2	P/P	19 - 110
2355301	Endrin Ketone	80.1	84.3	P/P	60 - 140
2355301	Esfenvalerate	101	106	P/P	26 - 199
2355301	Ethalfuralin	72.8	71.5	P/P	45 - 99.0
2355301	Fenpropathrin	80.4	75.4	P/P	35 - 120
2355301	Gamma-BHC	94.4	101	P/P	63 - 128
2355301	Gamma-Chlordane	79.6	81.2	P/P	40 - 104
2355301	Heptachlor	54.4	52.4	P/P	36 - 97.0
2355301	Heptachlor Epoxide	87.8	85.7	P/P	49 - 184
2355301	Hexachlorobenzene	78.6	75.8	P/P	39 - 96.0
2355301	Kepone	69.9	131	P/P	10 - 217
2355301	Lambda-Cyhalothrin	66.4	63.9	P/P	21 - 193
2355301	Methoprene	99.4	83.5	P/P	20 - 106
2355301	Methoxychlor	90.9	92.6	P/P	53 - 118
2355301	MGK-264	86.1	91.8	P/P	40 - 118
2355301	Mirex	62.3	58.9	P/P	26 - 92.0
2355301	Oxychlordane	78.8	80.1	P/P	44 - 99.0
2355301	Permethrin	70.8	65.3	P/P	33 - 182
2355301	Phenothrin	57.5	58.2	P/P	10 - 129
2355301	Piperonyl Butoxide	128	126	P/P	10 - 211
2355301	Prallethrin	72.9	77.8	P/P	24 - 113
2355301	Tau-Fluvalinate	79.8	85.8	P/P	14 - 149
2355301	Tetramethrin	103	102	P/P	17 - 151
2355301	Trans-Nonachlor	88.8	88.7	P/P	42 - 102
2355301	Triclosan Methyl	86.3	85.5	P/P	48 - 108
2355301	Trifluralin	74.6	73.3	P/P	47 - 96.0

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P419392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355923	Acetochlor	105	97.1	P/P	65 - 124
2355923	Alachlor	120	112	P/P	61 - 121
2355923	Ametryn	103	118	P/P	52 - 216
2355923	Atrazine Desethyl	38.5	37.8	P/P	15 - 160
2355923	Azinphos Methyl	142	153	P/P	40 - 292
2355923	Azoxystrobin	220	217	P/P	12 - 242
2355923	Bromacil	90.1	79.1	P/P	54 - 167
2355923	Butylate	20.4	23.4	P/P	14 - 94.0
2355923	Carbophenothion	99.6	94.6	P/P	49 - 122
2355923	Carfentrazone Ethyl	136	115	P/P	53 - 138
2355923	Chlorfenapyr	90.4	77.6	P/P	50 - 150
2355923	Chlorpyrifos Ethyl	115	94.0	P/P	52 - 122
2355923	Chlorpyrifos Methyl	101	88.3	P/P	66 - 117
2355923	Coumaphos	146	126	P/P	50 - 220
2355923	Cyanazine	220	217	P/P	43 - 245
2355923	Cyprodinil	97.1	75.5	P/P	50 - 150
2355923	Demeton	67.4	65.2	P/P	43 - 188
2355923	Diazinon	84.1	79.9	P/P	69 - 131
2355923	Difenoconazole	136	146	P/P	34 - 231
2355923	Dimethenamid	103	93.8	P/P	55 - 118
2355923	Dimethomorph	119	142	P/P	50 - 150
2355923	Disulfoton	73.5	62.9	P/P	38 - 141
2355923	Dithiopyr	111	97.6	P/P	42 - 116
2355923	EPTC	26.8	26.6	P/P	18 - 85.0
2355923	Ethion	97.3	84.7	P/P	10 - 131
2355923	Ethoprop	116	105	P/P	65 - 129
2355923	Etridiazole	81.6	82.8	P/P	50 - 150
2355923	Fenamiphos	114	104	P/P	31 - 137
2355923	Fenbuconazole	156	158	P/P	57 - 160
2355923	Fipronil Desulfinyl	120	102	P/P	57 - 131
2355923	Fluazifop-P-butyl	100	87.5	P/P	54 - 133
2355923	Fludioxonil	91.9	106	P/P	58 - 127
2355923	Flumioxazin	149	102	P/P	33 - 300
2355923	Flutolanil	89.1	81.6	P/P	42 - 130
2355923	Fluxapyroxad	84.1	54.9	P/P	23 - 141
2355923	Fonofos	75.3	63.9	P/P	58 - 119
2355923	Imazalil	202	167	P/P	48 - 283
2355923	Iprodione	91.5	85.9	P/P	38 - 140
2355923	Malathion	89.0	86.1	P/P	40 - 137
2355923	Metalaxyl	52.3	52.5	P/P	21 - 129
2355923	Metolachlor	60.2	60.0	P/P	55 - 122
2355923	Metribuzin	132	132	P/P	38 - 187
2355923	Mevinphos	107	90.8	P/P	54 - 134
2355923	Molinate	45.6	42.9	P/P	41 - 97.0
2355923	Myclobutanil	98.8	87.0	P/P	56 - 125
2355923	Naled	91.4	89.5	P/P	10 - 108
2355923	Napropamide	85.9	63.8	P/P	50 - 150
2355923	Norflurazon	122	104	P/P	32 - 122
2355923	Oxadiazon	50.4	45.9	P/P	40 - 119
2355923	Oxyfluorfen	164	143	F/P	61 - 153
2355923	Parathion Ethyl	99.6	92.4	P/P	59 - 130
2355923	Parathion Methyl	113	112	P/P	65 - 155

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P419392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355923	Pendimethalin	91.2	86.4	P/P	49 - 138
2355923	Phenytol	141	41.3	P/F	50 - 200
2355923	Phorate	110	104	P/P	54 - 161
2355923	Prodiamine	55.2	61.0	P/P	33 - 161
2355923	Prometon	78.1	80.6	P/P	48 - 140
2355923	Prometryn	62.4	54.7	P/F	55 - 134
2355923	Pronamide	73.1	68.6	P/P	66 - 137
2355923	Propanil	121	120	P/P	50 - 150
2355923	Propargite	199	174	P/P	50 - 200
2355923	Propiconazole	141	141	P/P	36 - 150
2355923	Pyraflufen Ethyl	139	125	P/P	50 - 150
2355923	Pyridaben	189	175	P/P	50 - 200
2355923	Pyriproxyfen	94.0	92.1	P/P	10 - 165
2355923	Simazine	118	108	P/P	57 - 145
2355923	Stirophos	100	57.4	P/P	50 - 150
2355923	Sulfentrazone	80.1	57.7	P/P	34 - 140
2355923	Terbufos	129	121	P/P	59 - 138
2355923	Terbutylazine	115	116	P/P	68 - 119
2355923	Thiobencarb	121	107	P/P	50 - 150
2355923	Triadimefon	115	110	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P420385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2359926	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	78.4	64.4	P/P	26 - 165
2359926	Avobenzene	58.3	55.8	P/P	37 - 178
2359926	Dechlorane Plus	110	86.5	P/P	50 - 150
2359926	Octinoxate	41.8	28.0	P/P	21 - 159
2359926	Oxybenzone	64.6	51.3	P/P	41 - 142
2359926	PBDE-47	60.6	48.9	P/P	27 - 144
2359926	PBDE-99	72.5	59.3	P/P	18 - 150
2359926	Tri-o-cresyl Phosphate	68.6	55.5	P/P	31 - 144

Reference Method: EPA 8276
Batch ID: P419360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355149	Chlordane	67.0	66.3	P/P	53 - 126
2355149	Toxaphene	75.7	74.5	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P419298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355147	Acesulfame K	77.2	75.8	P/P	40 - 150
2355147	AMPA	72.9	77.4	P/P	40 - 150
2355147	Endothall	125	120	P/P	40 - 150
2355147	Glufosinate	71.0	67.1	P/P	40 - 150
2355147	Glyphosate	98.0	106	P/P	40 - 150
2355147	Sucralose	95.3	93.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P419489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355419	3-Hydroxycarbofuran	45.0	93.8	P/P	40 - 150
2355419	Aldicarb	33.2	53.4	P/P	30 - 150
2355419	Aldicarb Sulfone	76.5	72.7	P/P	40 - 150
2355419	Aldicarb Sulfoxide	38.9	37.9	F/F	40 - 150
2355419	Carbaryl	62.9	60.6	P/P	40 - 150
2355419	Carbofuran	66.3	64.2	P/P	40 - 150
2355419	Methiocarb	90.2	80.1	P/P	40 - 150
2355419	Methomyl	79.4	71.0	P/P	40 - 150
2355419	Oxamyl	80.3	76.3	P/P	40 - 150
2355419	Propoxur	57.9	63.2	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P419554

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355835	2,4-D	82.0	77.7	P/P	40 - 150
2355835	2,4,5-T	83.7	79.1	P/P	40 - 150
2355835	Acetaminophen	76.1	77.5	P/P	30 - 150
2355835	Acetamiprid	55.7	74.2	P/P	40 - 150
2355835	Afidopyropen	105	134	P/P	30 - 150
2355835	Bentazon	113	102	P/P	30 - 150
2355835	Benzovindiflupyr	84.9	78.7	P/P	40 - 150
2355835	Carbamazepine	44.0	83.7	P/P	40 - 150
2355835	Clothianidin	62.7	56.0	P/P	40 - 150
2355835	Dinotefuran	91.9	93.9	P/P	40 - 150
2355835	Diuron	86.4	89.8	P/P	40 - 150
2355835	Fenuron	114	112	P/P	40 - 150
2355835	Fluridone	85.2	85.9	P/P	40 - 150
2355835	Hydrocodone	118	128	P/P	40 - 150
2355835	Ibuprofen	36.3	43.9	F/P	40 - 150
2355835	Imazapyr	82.8	84.6	P/P	40 - 150
2355835	Imidacloprid	76.6	76.8	P/P	40 - 150
2355835	Linuron	86.1	90.1	P/P	40 - 150
2355835	Mandestrobin	100	107	P/P	40 - 150
2355835	MCPP	91.3	93.3	P/P	40 - 150
2355835	Naproxen	66.3	60.5	P/P	40 - 150
2355835	Primidone	59.8	46.5	P/P	40 - 150
2355835	Pyraclostrobin	79.9	84.5	P/P	40 - 150
2355835	Silvex	84.6	74.5	P/P	40 - 150
2355835	Thiamethoxam	71.7	84.8	P/P	40 - 150
2355835	Tolfenpyrad	40.3	42.8	P/P	30 - 150
2355835	Triclopyr	74.2	75.6	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P419771

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355410	Fluoride	98.2	98.8	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P419772

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355843	Fluoride	98.2	98.2	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419638

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355367	Organic Carbon	97.5	97.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P419384

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355322	Color (true)	0.750	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355232	Turbidity	2.88	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355233	Chloride	0.0390	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355474	Chloride	0.187	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Batch ID: P419942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355979	Sulfate	1.73	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355411	Ammonia-N	2.21	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419519

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355491	Kjeldahl Nitrogen	0.325	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355256	Kjeldahl Nitrogen	6.42	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P419896

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355378	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P419594

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355380	Total-P	0.735	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P419373

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355409	O-Phosphate-P	0.502	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P419360

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355149	PCB-1016	0.723	Spike	P	0 - 32
2355149	PCB-1260	1.30	Spike	P	0 - 31
2355301	Aldrin	1.46	Spike	P	0 - 41
2355301	Alpha-BHC	3.48	Spike	P	0 - 25
2355301	Alpha-Chlordane	2.28	Spike	P	0 - 33
2355301	Beta-BHC	23.6	Spike	P	0 - 36
2355301	Beta-Cyfluthrin	1.75	Spike	P	0 - 42
2355301	Bifenthrin	19.3	Spike	P	0 - 53
2355301	Chlorothalonil	14.2	Spike	P	0 - 71
2355301	Cis-Nonachlor	2.33	Spike	P	0 - 29
2355301	Cypermethrin	3.30	Spike	P	0 - 40
2355301	Dacthal	2.64	Spike	P	0 - 26
2355301	DDD-p,p'	0.800	Spike	P	0 - 39
2355301	DDE-p,p'	0.555	Spike	P	0 - 33
2355301	DDT-p,p'	0.702	Spike	P	0 - 40
2355301	Delta-BHC	14.0	Spike	P	0 - 37
2355301	Deltamethrin	0.924	Spike	P	0 - 100
2355301	Dichlobenil	9.57	Spike	P	0 - 40
2355301	Dicofol	4.97	Spike	P	0 - 31
2355301	Dieldrin	3.08	Spike	P	0 - 27
2355301	Endosulfan I	2.44	Spike	P	0 - 23
2355301	Endosulfan II	1.52	Spike	P	0 - 28
2355301	Endosulfan Sulfate	16.0	Spike	P	0 - 38
2355301	Endrin	3.02	Spike	P	0 - 63
2355301	Endrin Aldehyde	13.6	Spike	P	0 - 60
2355301	Endrin Ketone	5.10	Spike	P	0 - 37
2355301	Esfenvalerate	4.77	Spike	P	0 - 52
2355301	Ethalfuralin	1.76	Spike	P	0 - 23
2355301	Fenpropathrin	6.41	Spike	P	0 - 32
2355301	Gamma-BHC	6.87	Spike	P	0 - 17

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P419360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355301	Gamma-Chlordane	1.80	Spike	P	0 - 40
2355301	Heptachlor	3.75	Spike	P	0 - 29
2355301	Heptachlor Epoxide	2.45	Spike	P	0 - 25
2355301	Hexachlorobenzene	3.70	Spike	P	0 - 36
2355301	Kepone	60.9	Spike	P	0 - 93
2355301	Lambda-Cyhalothrin	3.72	Spike	P	0 - 55
2355301	Methoprene	17.5	Spike	P	0 - 53
2355301	Methoxychlor	1.63	Spike	P	0 - 29
2355301	MGK-264	6.37	Spike	P	0 - 35
2355301	Mirex	5.47	Spike	P	0 - 46
2355301	Oxychlordane	1.60	Spike	P	0 - 29
2355301	Permethrin	8.01	Spike	P	0 - 44
2355301	Phenothrin	1.08	Spike	P	0 - 56
2355301	Piperonyl Butoxide	0.895	Spike	P	0 - 100
2355301	Prallethrin	6.48	Spike	P	0 - 42
2355301	Tau-Fluvalinate	7.23	Spike	P	0 - 54
2355301	Tetramethrin	0.982	Spike	P	0 - 51
2355301	Trans-Nonachlor	0.162	Spike	P	0 - 37
2355301	Triclosan Methyl	0.962	Spike	P	0 - 31
2355301	Trifluralin	1.88	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P419392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355923	Acetochlor	8.11	Spike	P	0 - 27
2355923	Alachlor	7.34	Spike	P	0 - 27
2355923	Ametryn	13.5	Spike	P	0 - 34
2355923	Atrazine	0.258	Spike	P	0 - 41
2355923	Atrazine Desethyl	1.78	Spike	P	0 - 38
2355923	Azinphos Methyl	7.47	Spike	P	0 - 62
2355923	Azoxystrobin	1.16	Spike	P	0 - 32
2355923	Bromacil	13.0	Spike	P	0 - 30
2355923	Butylate	13.7	Spike	P	0 - 59
2355923	Caffeine	3.21	Spike	P	0 - 60
2355923	Carbophenothion	5.14	Spike	P	0 - 25
2355923	Carfentrazone Ethyl	16.7	Spike	P	0 - 26
2355923	Chlorfenapyr	12.0	Spike	P	0 - 30
2355923	Chlorpyrifos Ethyl	20.3	Spike	P	0 - 27
2355923	Chlorpyrifos Methyl	13.0	Spike	P	0 - 26
2355923	Coumaphos	14.8	Spike	P	0 - 30
2355923	Cyanazine	1.37	Spike	P	0 - 58
2355923	Cyprodinil	25.1	Spike	P	0 - 30
2355923	Demeton	3.35	Spike	P	0 - 25
2355923	Diazinon	5.19	Spike	P	0 - 29
2355923	Difenoconazole	6.73	Spike	P	0 - 25
2355923	Dimethenamid	9.76	Spike	P	0 - 30
2355923	Dimethomorph	17.6	Spike	P	0 - 30
2355923	Disulfoton	15.5	Spike	P	0 - 33
2355923	Dithiopyr	10.4	Spike	P	0 - 22

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P419392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355923	EPTC	0.938	Spike	P	0 - 38
2355923	Ethion	13.9	Spike	P	0 - 79
2355923	Ethoprop	9.69	Spike	P	0 - 23
2355923	Etridiazole	1.45	Spike	P	0 - 30
2355923	Fenamiphos	9.43	Spike	P	0 - 58
2355923	Fenbuconazole	1.38	Spike	P	0 - 37
2355923	Fipronil	4.77	Spike	P	0 - 33
2355923	Fipronil Desulfinyl	13.4	Spike	P	0 - 26
2355923	Fipronil Sulfide	1.35	Spike	P	0 - 37
2355923	Fipronil Sulfone	2.49	Spike	P	0 - 50
2355923	Fluazifop-P-butyl	13.5	Spike	P	0 - 24
2355923	Fludioxonil	10.3	Spike	P	0 - 26
2355923	Flumioxazin	36.9	Spike	P	0 - 37
2355923	Flutolanil	8.50	Spike	P	0 - 26
2355923	Fluxapyroxad	39.9	Spike	F	0 - 34
2355923	Fonofos	16.5	Spike	P	0 - 27
2355923	Hexazinone	9.03	Spike	P	0 - 36
2355923	Imazalil	19.3	Spike	P	0 - 65
2355923	Iprodione	6.30	Spike	P	0 - 33
2355923	Loratadine	27.8	Spike	P	0 - 30
2355923	Malathion	3.25	Spike	P	0 - 44
2355923	Metalaxyl	0.368	Spike	P	0 - 38
2355923	Metolachlor	0.337	Spike	P	0 - 36
2355923	Metribuzin	0.145	Spike	P	0 - 63
2355923	Mevinphos	16.3	Spike	P	0 - 26
2355923	Molinate	6.14	Spike	P	0 - 40
2355923	Myclobutanil	11.8	Spike	P	0 - 21
2355923	Naled	2.04	Spike	P	0 - 26
2355923	Napropamide	29.6	Spike	P	0 - 30
2355923	Norflurazon	15.9	Spike	P	0 - 24
2355923	Oxadiazon	9.39	Spike	P	0 - 27
2355923	Oxyfluorfen	13.4	Spike	P	0 - 24
2355923	Parathion Ethyl	7.48	Spike	P	0 - 28
2355923	Parathion Methyl	1.32	Spike	P	0 - 27
2355923	Pendimethalin	5.45	Spike	P	0 - 31
2355923	Phenytoin	60.3	Spike	F	0 - 30
2355923	Phorate	5.02	Spike	P	0 - 27
2355923	Prodiamine	9.88	Spike	P	0 - 52
2355923	Prometon	3.24	Spike	P	0 - 31
2355923	Prometryn	13.2	Spike	P	0 - 28
2355923	Pronamide	6.41	Spike	P	0 - 26
2355923	Propanil	0.850	Spike	P	0 - 30
2355923	Propargite	12.9	Spike	P	0 - 30
2355923	Propiconazole	0.293	Spike	P	0 - 31
2355923	Pyraflufen Ethyl	10.2	Spike	P	0 - 30
2355923	Pyridaben	7.45	Spike	P	0 - 30
2355923	Pyriproxyfen	2.01	Spike	P	0 - 50
2355923	Simazine	8.52	Spike	P	0 - 29
2355923	Stirophos	54.4	Spike	F	0 - 30
2355923	Sulfentrazone	18.6	Spike	P	0 - 33
2355923	Tebuconazole	29.1	Spike	P	0 - 44

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P419392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355923	Terbufos	5.97	Spike	P	0 - 29
2355923	Terbutylazine	1.52	Spike	P	0 - 27
2355923	Thiobencarb	12.2	Spike	P	0 - 30
2355923	Triadimefon	4.60	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P420385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2359926	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	19.6	Spike	P	0 - 37
2359926	Avobenzene	4.42	Spike	P	0 - 36
2359926	Dechlorane Plus	23.5	Spike	P	0 - 30
2359926	Octinoxate	21.8	Spike	P	0 - 45
2359926	Oxybenzone	23.1	Spike	P	0 - 46
2359926	PBDE-47	21.4	Spike	P	0 - 36
2359926	PBDE-99	20.0	Spike	P	0 - 40
2359926	Tri-o-cresyl Phosphate	21.2	Spike	P	0 - 33

Reference Method: EPA 8276
Batch ID: P419360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355149	Chlordane	1.04	Spike	P	0 - 25
2355149	Toxaphene	1.51	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P419298

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355147	Acesulfame K	1.94	Spike	P	0 - 30
2355147	AMPA	4.72	Spike	P	0 - 30
2355147	Endothall	4.22	Spike	P	0 - 30
2355147	Glufosinate	5.58	Spike	P	0 - 30
2355147	Glyphosate	5.26	Spike	P	0 - 30
2355147	Sucralose	2.23	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P419489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355419	3-Hydroxycarbofuran	70.3	Spike	F	0 - 30
2355419	Aldicarb	46.8	Spike	F	0 - 30
2355419	Aldicarb Sulfone	5.04	Spike	P	0 - 30
2355419	Aldicarb Sulfoxide	2.45	Spike	P	0 - 30
2355419	Carbaryl	3.75	Spike	P	0 - 30
2355419	Carbofuran	3.25	Spike	P	0 - 30
2355419	Methiocarb	11.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P419489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355419	Methomyl	11.1	Spike	P	0 - 30
2355419	Oxamyl	5.09	Spike	P	0 - 30
2355419	Propoxur	8.77	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P419554

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355835	2,4-D	5.09	Spike	P	0 - 30
2355835	2,4,5-T	5.71	Spike	P	0 - 30
2355835	Acetaminophen	1.90	Spike	P	0 - 30
2355835	Acetamiprid	28.4	Spike	P	0 - 30
2355835	Afidopyropen	24.2	Spike	P	0 - 30
2355835	Bentazon	8.88	Spike	P	0 - 30
2355835	Benzovindiflupyr	7.60	Spike	P	0 - 30
2355835	Carbamazepine	62.3	Spike	F	0 - 30
2355835	Clothianidin	11.2	Spike	P	0 - 30
2355835	Dinotefuran	2.14	Spike	P	0 - 30
2355835	Diuron	3.89	Spike	P	0 - 30
2355835	Fenuron	1.01	Spike	P	0 - 30
2355835	Fluridone	0.763	Spike	P	0 - 30
2355835	Hydrocodone	8.05	Spike	P	0 - 30
2355835	Ibuprofen	18.8	Spike	P	0 - 30
2355835	Imazapyr	2.03	Spike	P	0 - 30
2355835	Imidacloprid	0.363	Spike	P	0 - 30
2355835	Linuron	4.55	Spike	P	0 - 30
2355835	Mandestrobin	6.16	Spike	P	0 - 30
2355835	MCP	2.18	Spike	P	0 - 30
2355835	Naproxen	9.18	Spike	P	0 - 30
2355835	Primidone	25.1	Spike	P	0 - 30
2355835	Pyraclostrobin	5.69	Spike	P	0 - 30
2355835	Silvex	12.7	Spike	P	0 - 30
2355835	Thiamethoxam	16.6	Spike	P	0 - 30
2355835	Tolfenpyrad	5.97	Spike	P	0 - 30
2355835	Triclopyr	1.85	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P419767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355410	Total Alkalinity	1.90	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P419884

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355026	Total Alkalinity	0.0450	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-2011
Batch ID: P419798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355366	TDS	7.94	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P419771

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355410	Fluoride	0.474	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P419772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355843	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419638

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355367	Organic Carbon	0.254	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2355419
Field Sample ID: G1SW0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	68.3	P	30 - 160

Lab Sample ID: 2355420
Field Sample ID: G1SW0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	92.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.2	P	30 - 160
EPA 8321B	Diuron-d6	51.9	P	30 - 160
EPA 8321B	Endothall-d6	91.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.9	P	30 - 160
EPA 8321B	Primidone-d5	99.8	P	30 - 160
EPA 8321B	Sucralose-d6	94.1	P	30 - 160

Lab Sample ID: 2355421
Field Sample ID: G1SW0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	93.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	67.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	56.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	59.8	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	62.0	P	30 - 101
EPA 8276	PCNB	86.0	P	48 - 121

Lab Sample ID: 2355422
Field Sample ID: G1SW0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	146	P	20 - 200
EPA 8270E	Simazine-d10	136	P	71 - 140
EPA 8270E	Terbufos-d10	143	F	62 - 131
EPA 8270E	Terphenyl-d14	87.9	P	52 - 137
EPA 8270E	Terphenyl-d14	113	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A114646

Included Lab Sample IDs: 2355409, 2355412, 2355415

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	98.5	P/P	90 - 110
O-Phosphate-P	98.1	97.7	P/P	90 - 110
O-Phosphate-P	98.5	98.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114652

Included Lab Sample IDs: 2355407, 2355410, 2355413

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

Reference Method: DEP SOP: NU-094-1

Run ID: A114656

Included Lab Sample IDs: 2355407, 2355410, 2355413

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.6	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114709

Included Lab Sample IDs: 2355420

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	105	103	P/P	60 - 160
Sucralose	92.3	89.0	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114710

Included Lab Sample IDs: 2355420

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.2	102	P/P	60 - 160
Endothall	68.3	67.5	P/P	60 - 160
Glufosinate	64.3	69.7	P/P	60 - 160
Glyphosate	101	99.0	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114740

Included Lab Sample IDs: 2355419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	113	133	P/P	60 - 150
Aldicarb	95.9	123	P/P	60 - 150
Aldicarb Sulfone	107	117	P/P	50 - 150
Aldicarb Sulfoxide	111	115	P/P	50 - 150
Carbaryl	106	116	P/P	60 - 150
Carbofuran	111	117	P/P	50 - 150
Methiocarb	118	128	P/P	50 - 150
Methomyl	112	122	P/P	50 - 150
Oxamyl	118	106	P/P	50 - 150
Propoxur	112	106	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A114746

Included Lab Sample IDs: 2355408, 2355411, 2355414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	97.4	P/P	90 - 110
Organic Carbon	97.4	97.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114747

Included Lab Sample IDs: 2355408, 2355411, 2355414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114750

Included Lab Sample IDs: 2355408, 2355414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.0	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114761

Included Lab Sample IDs: 2355408

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

Reference Method: EPA 8270E

Run ID: A114763

Included Lab Sample IDs: 2355421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.1		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	97.5		P	80 - 120
Beta-BHC	97.2		P	80 - 120
Beta-Cyfluthrin	97.6		P	80 - 120
Bifenthrin	119		P	80 - 120
Chlorothalonil	109		P	80 - 120
Cis-Nonachlor	95.9		P	80 - 120
Cypermethrin	97.5		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	96.8		P	80 - 120
DDE-p,p'	99.3		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	104		P	80 - 120
Dicofol	89.5		P	80 - 120
Dieldrin	96.0		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	97.9		P	80 - 120
Endosulfan Sulfate	96.8		P	80 - 120
Endrin	99.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114763
Included Lab Sample IDs: 2355421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Aldehyde	85.0		P	80 - 120
Endrin Ketone	91.1		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	98.1		P	80 - 120
Fenpropathrin	120		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	98.0		P	80 - 120
Heptachlor	94.3		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	98.4		P	80 - 120
Kepone	85.8		P	80 - 120
Lambda-Cyhalothrin	98.2		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	126*		F	80 - 120
MGK-264	99.9		P	80 - 120
Mirex	98.8		P	80 - 120
Oxychlordane	99.2		P	80 - 120
Permethrin	95.8		P	80 - 120
Phenothrin	91.7		P	80 - 120
Piperonyl Butoxide	102		P	80 - 120
Prallethrin	91.8		P	80 - 120
Tau-Fluvalinate	99.4		P	80 - 120
Tetramethrin	137*		F	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	99.5		P	80 - 120
Trifluralin	104		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114786
Included Lab Sample IDs: 2355411, 2355414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	100	P/P	90 - 110
Total-P	99.8	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114789
Included Lab Sample IDs: 2355407, 2355410, 2355413

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

Reference Method: EPA 8276
Run ID: A114794
Included Lab Sample IDs: 2355421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.8		P	80 - 120
Toxaphene	94.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A114801

Included Lab Sample IDs: 2355407, 2355410

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	96.7	P/P	90 - 110
Total Alkalinity	98.9	103	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114801

Included Lab Sample IDs: 2355407, 2355410, 2355413

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

Reference Method: EPA 8270E

Run ID: A114821

Included Lab Sample IDs: 2355422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	113		P	80 - 120
Atrazine Desethyl	99.7		P	80 - 120
Azinphos Methyl	111		P	80 - 120
Azoxystrobin	93.4		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	108		P	80 - 120
Caffeine	95.1		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120
Chlorfenapyr	105		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	99.5		P	80 - 120
Coumaphos	92.9		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	105		P	80 - 120
Difenoconazole	100		P	80 - 120
Dimethenamid	104		P	80 - 120
Dimethomorph	96.8		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	107		P	80 - 120
EPTC	100		P	80 - 120
Ethion	100		P	80 - 120
Ethoprop	99.0		P	80 - 120
Etridiazole	99.6		P	80 - 120
Fenamiphos	108		P	80 - 120
Fenbuconazole	96.2		P	80 - 120
Fipronil	105		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114821
Included Lab Sample IDs: 2355422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluazifop-P-butyl	104		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	88.7		P	80 - 120
Flutolanil	99.8		P	80 - 120
Fluxapyroxad	117		P	80 - 120
Fonofos	92.6		P	80 - 120
Hexazinone	99.9		P	80 - 120
Imazalil	96.7		P	80 - 120
Iprodione	93.6		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	91.4		P	80 - 120
Metaxyl	105		P	80 - 120
Metolachlor	99.9		P	80 - 120
Metribuzin	106		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	104		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	95.6		P	80 - 120
Napropamide	98.2		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	107		P	80 - 120
Parathion Methyl	104		P	80 - 120
Pendimethalin	102		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	110		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	95.0		P	80 - 120
Propanil	100		P	80 - 120
Propargite	103		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	96.3		P	80 - 120
Pyridaben	96.3		P	80 - 120
Pyriproxyfen	97.2		P	80 - 120
Simazine	99.2		P	80 - 120
Stirophos	103		P	80 - 120
Sulfentrazone	98.6		P	80 - 120
Tebuconazole	113		P	80 - 120
Terbufos	98.4		P	80 - 120
Terbutylazine	102		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	94.8		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114823
Included Lab Sample IDs: 2355411

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.8	97.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114826

Included Lab Sample IDs: 2355408, 2355411, 2355414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.0	96.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114834

Included Lab Sample IDs: 2355422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.7		P	80 - 120
Phenytoin	104		P	80 - 120

Reference Method: EPA 8321B

Run ID: A114835

Included Lab Sample IDs: 2355420

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	99.6	98.1	P/P	50 - 150
2,4,5-T	98.5	104	P/P	50 - 150
Acetaminophen	96.3	101	P/P	60 - 160
Acetamiprid	113	119	P/P	50 - 150
Afidopyropen	106	91.0	P/P	50 - 150
Bentazon	107	113	P/P	50 - 160
Benzovindiflupyr	90.6	101	P/P	50 - 150
Carbamazepine	114	109	P/P	60 - 150
Clothianidin	104	83.2	P/P	60 - 150
Dinotefuran	107	108	P/P	50 - 150
Diuron	112	110	P/P	60 - 160
Fenuron	106	104	P/P	60 - 150
Fluridone	105	112	P/P	60 - 160
Hydrocodone	102	104	P/P	60 - 150
Ibuprofen	145	63.7	P/P	50 - 160
Imazapyr	99.2	93.8	P/P	50 - 150
Imidacloprid	97.0	110	P/P	60 - 150
Linuron	108	108	P/P	60 - 150
Mandestrobin	109	109	P/P	50 - 150
MCPP	95.6	98.9	P/P	50 - 150
Naproxen	121	138	P/P	50 - 160
Primidone	92.5	81.4	P/P	60 - 150
Pyraclostrobin	107	110	P/P	60 - 150
Silvex	94.3	99.5	P/P	50 - 150
Thiamethoxam	106	111	P/P	50 - 150
Tolfenpyrad	114	105	P/P	60 - 150
Triclopyr	105	91.9	P/P	50 - 150

Reference Method: SM 2320 B-2011

Run ID: A114840

Included Lab Sample IDs: 2355413

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	99.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114848
Included Lab Sample IDs: 2355421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	88.7		P	80 - 120
PCB-1260	98.8		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1 dissolved
Run ID: A114857
Included Lab Sample IDs: 2355409, 2355412, 2355415

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	98.6	98.9	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A115103
Included Lab Sample IDs: 2355422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	87.2		P	80 - 120
Avobenzone	99.8		P	80 - 120
Dechlorane Plus	94.1		P	80 - 120
Octinoxate	86.8		P	80 - 120
Oxybenzone	87.7		P	80 - 120
PBDE-47	87.9		P	80 - 120
PBDE-99	86.7		P	80 - 120
Tri-o-cresyl Phosphate	90.3		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	99.4				0.750	
EPA 180.1 Rev. 2.0	Turbidity	97.3				2.88	
EPA 300.0 Rev. 2.1	Chloride	99.4	97.6	97.1		0.0390	
	Chloride	102	98.5	101		0.187	
EPA 300.0 Rev. 2.1 dissolved	Sulfate	97.1	97.1	96.7		1.73	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	96.4	98.8			2.21
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104					0.325
	Kjeldahl Nitrogen	105	112	103			6.42
EPA 353.2 Rev. 2.0	NO2NO3-N	96.5	98.5	98.5			0.0
EPA 365.1 Rev. 2.0	Total-P	104	101	99.9			0.735
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	99.3	99.8			0.502
EPA 8270E	2-Ethylhexyl	90.4	78.4	64.4			19.6
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	86.6	105	97.1			8.11
	Alachlor	79.9	120	112			7.34
	Aldrin	57.5	75.3	74.2			1.46
	Alpha-BHC	86.5	91.7	94.9			3.48
	Alpha-Chlordane	74.8	90.2	88.2			2.28
	Ametryn	79.2	103	118			13.5
	Atrazine	81.1					0.258
	Atrazine Desethyl	61.3	38.5	37.8			1.78
	Avobenzone	96.4	58.3	55.8			4.42
	Azinphos Methyl	109	142	153			7.47
	Azoxystrobin	104	220	217			1.16
	Beta-BHC	116	84.0	106			23.6
	Beta-Cyfluthrin	63.8	89.6	91.2			1.75
	Bifenthrin	46.8	97.2	80.1			19.3
	Bromacil	108	90.1	79.1			13.0
	Butylate	40.8	20.4	23.4			13.7
	Caffeine	72.6					3.21
	Carbophenothion	81.0	99.6	94.6			5.14
	Carfentrazone Ethyl	88.8	136	115			16.7
	Chlorfenapyr	83.3	90.4	77.6			12.0
	Chlorothalonil	133	126	145			14.2
	Chlorpyrifos Ethyl	106	115	94.0			20.3
	Chlorpyrifos Methyl	93.1	101	88.3			13.0
	Cis-Nonachlor	58.0	67.2	65.6			2.33
	Coumaphos	144	146	126			14.8
	Cyanazine	130	220	217			1.37
	Cypermethrin	45.9	67.2	69.5			3.30
	Cyprodinil	107	97.1	75.5			25.1
	Dacthal	94.6	89.3	91.7			2.64
	DDD-p,p'	47.0	51.2	50.8			0.800
	DDE-p,p'	74.2	85.7	86.2			0.555
	DDT-p,p'	71.9	82.8	83.4			0.702
	Dechlorane Plus	123	110	86.5			23.5
	Delta-BHC	135	115	132			14.0
	Deltamethrin	80.5	117	116			0.924
	Demeton	85.9	67.4	65.2			3.35
	Diazinon	118	84.1	79.9			5.19
	Dichlobenil	92.9	57.2	63.0			9.57
	Dicofol	37.0	49.2	46.8			4.97
	Dieldrin	55.7	64.1	62.2			3.08

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Difenoconazole	112	136	146		6.73
	Dimethenamid	69.5	103	93.8		9.76
	Dimethomorph	89.4	119	142		17.6
	Disulfoton	80.3	73.5	62.9		15.5
	Dithiopyr	92.7	111	97.6		10.4
	Endosulfan I	84.1	94.4	92.2		2.44
	Endosulfan II	85.2	81.8	83.1		1.52
	Endosulfan Sulfate	97.1	78.7	92.4		16.0
	Endrin	83.8	92.0	89.2		3.02
	Endrin Aldehyde	61.2	45.5	52.2		13.6
	Endrin Ketone	90.9	80.1	84.3		5.10
	EPTC	46.8	26.8	26.6		0.938
	Esfenvalerate	68.5	101	106		4.77
	Ethalfuralin	63.7	72.8	71.5		1.76
	Ethion	86.8	97.3	84.7		13.9
	Ethoprop	84.1	116	105		9.69
	Etridiazole	50.6	81.6	82.8		1.45
	Fenamiphos	85.0	114	104		9.43
	Fenbuconazole	111	158	156		1.38
	Fenpropathrin	58.6	80.4	75.4		6.41
	Fipronil	55.0				4.77
	Fipronil Desulfinyl	72.4	120	102		13.4
	Fipronil Sulfide	52.5				1.35
	Fipronil Sulfone	70.1				2.49
	Fluazifop-P-butyl	87.8	100	87.5		13.5
	Fludioxonil	86.3	91.9	106		10.3
	Flumioxazin	98.3	149	102		36.9
	Flutolanil	89.7	89.1	81.6		8.50
	Fluxapyroxad	104	84.1	54.9		39.9
	Fonofos	81.6	75.3	63.9		16.5
	Gamma-BHC	97.3	94.4	101		6.87
	Gamma-Chlordane	71.5	79.6	81.2		1.80
	Heptachlor	42.6	54.4	52.4		3.75
	Heptachlor Epoxide	79.2	87.8	85.7		2.45
	Hexachlorobenzene	64.0	78.6	75.8		3.70
	Hexazinone	87.2				9.03
	Imazalil	74.8	202	167		19.3
	Iprodione	134	91.5	85.9		6.30
	Kepone	213	69.9	131		60.9
	Lambda-Cyhalothrin	41.5	66.4	63.9		3.72
	Loratadine	113				27.8
	Malathion	95.7	89.0	86.1		3.25
	Metalaxyl	89.4	52.3	52.5		0.368
	Methoprene	54.4	99.4	83.5		17.5
	Methoxychlor	92.7	90.9	92.6		1.63
	Metolachlor	93.8	60.2	60.0		0.337
	Metribuzin	89.5	132	132		0.145
	Mevinphos	73.2	107	90.8		16.3
	MGK-264	83.4	86.1	91.8		6.37
	Mirex	40.5	62.3	58.9		5.47
	Molinate	61.5	45.6	42.9		6.14
	Myclobutanil	98.2	98.8	87.0		11.8
	Naled	83.8	91.4	89.5		2.04
	Napropamide	67.8	85.9	63.8		29.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Norflurazon	82.8	122	104		15.9
	Octinoxate	78.2	41.8	28.0		21.8
	Oxadiazon	77.1	50.4	45.9		9.39
	Oxybenzone	65.1	64.6	51.3		23.1
	Oxychlordane	71.5	78.8	80.1		1.60
	Oxyfluorfen	98.5	164	143		13.4
	Parathion Ethyl	74.6	99.6	92.4		7.48
	Parathion Methyl	98.3	113	112		1.32
	PBDE-47	71.0	60.6	48.9		21.4
	PBDE-99	85.5	72.5	59.3		20.0
	PCB-1016	73.4	69.6	69.1		0.723
	PCB-1260	75.7	55.7	56.4		1.30
	Pendimethalin	74.4	91.2	86.4		5.45
	Permethrin	45.2	70.8	65.3		8.01
	Phenothrin	29.2	57.5	58.2		1.08
	Phenytol	25.2	141	41.3		60.3
	Phorate	82.0	110	104		5.02
	Piperonyl Butoxide	108	128	126		0.895
	Prallethrin	65.0	72.9	77.8		6.48
	Prodiamine	57.5	55.2	61.0		9.88
	Prometon	77.1	78.1	80.6		3.24
	Prometryn	109	62.4	54.7		13.2
	Pronamide	117	73.1	68.6		6.41
	Propanil	74.4	121	120		0.850
	Propargite	120	199	174		12.9
	Propiconazole	92.8	141	141		0.293
	Pyraflufen Ethyl	92.4	139	125		10.2
	Pyridaben	124	189	175		7.45
	Pyriproxyfen	121	94.0	92.1		2.01
	Simazine	83.8	118	108		8.52
	Stirophos	80.5	100	57.4		54.4
	Sulfentrazone	96.7	80.1	57.7		18.6
	Tau-Fluvalinate	52.8	79.8	85.8		7.23
	Tebuconazole	82.8				29.1
	Terbufos	111	129	121		5.97
	Terbutylazine	81.3	115	116		1.52
	Tetramethrin	77.4	103	102		0.982
	Thiobencarb	76.5	121	107		12.2
	Trans-Nonachlor	76.8	88.8	88.7		0.162
	Tri-o-cresyl Phosphate	76.9	68.6	55.5		21.2
	Triadimefon	78.5	115	110		4.60
	Triclosan Methyl	79.6	86.3	85.5		0.962
	Trifluralin	65.9	74.6	73.3		1.88
EPA 8276	Chlordane	80.8	67.0	66.3		1.04
	Toxaphene	78.4	75.7	74.5		1.51
EPA 8321B	2,4-D	88.1	82.0	77.7		5.09
	2,4,5-T	77.0	83.7	79.1		5.71
	3-Hydroxycarbofuran	130	45.0	93.8		70.3
	Acesulfame K	100	77.2	75.8		1.94
	Acetaminophen	123	76.1	77.5		1.90
	Acetamiprid	81.0	55.7	74.2		28.4
	Afidopyropen	146	105	134		24.2
	Aldicarb	64.4	33.2	53.4		46.8
	Aldicarb Sulfone	118	76.5	72.7		5.04

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	SMP	MS	
EPA 8321B	Aldicarb Sulfoxide	110	38.9	37.9		2.45
	AMPA	97.9	72.9	77.4		4.72
	Bentazon	110	113	102		8.88
	Benzovindiflupyr	99.7	84.9	78.7		7.60
	Carbamazepine	78.6	44.0	83.7		62.3
	Carbaryl	94.6	62.9	60.6		3.75
	Carbofuran	92.8	66.3	64.2		3.25
	Clothianidin	105	62.7	56.0		11.2
	Dinotefuran	101	91.9	93.9		2.14
	Diuron	99.0	86.4	89.8		3.89
	Endothall	85.2	125	120		4.22
	Fenuron	107	114	112		1.01
	Fluridone	113	85.2	85.9		0.763
	Glufosinate	81.4	71.0	67.1		5.58
	Glyphosate	107	98.0	106		5.26
	Hydrocodone	103	118	128		8.05
	Ibuprofen	41.9	36.3	43.9		18.8
	Imazapyr	93.1	82.8	84.6		2.03
	Imidacloprid	110	76.6	76.8		0.363
	Linuron	89.5	86.1	90.1		4.55
	Mandestrobin	121	100	107		6.16
	MCPPP	76.2	91.3	93.3		2.18
	Methiocarb	115	90.2	80.1		11.9
	Methomyl	108	79.4	71.0		11.1
	Naproxen	59.1	66.3	60.5		9.18
	Oxamyl	93.7	80.3	76.3		5.09
	Primidone	73.2	59.8	46.5		25.1
	Propoxur	101	57.9	63.2		8.77
	Pyraclostrobin	89.9	79.9	84.5		5.69
	Silvex	70.6	84.6	74.5		12.7
	Sucralose	94.4	95.3	93.2		2.23
	Thiamethoxam	82.0	71.7	84.8		16.6
	Tolfenpyrad	55.1	40.3	42.8		5.97
	Triclopyr	72.2	74.2	75.6		1.85
SM 2320 B-2011	Total Alkalinity	102			1.90	
	Total Alkalinity	98.7			0.0450	
SM 2540 C-2011	TDS				7.94	
SM 4500-F- C-2011	Fluoride	101	98.2	98.8		0.474
	Fluoride	100	98.2	98.2		0.0
SM 5310 B-2011	Organic Carbon	95.4	97.5	97.9		0.254

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2355407, 2355410, 2355413
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2355407, 2355410, 2355413
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2355407, 2355410, 2355413
EPA 300.0 Rev. 2.1 dissolved	Sulfate, dissolved, in filtered, aqueous matrices	2355409, 2355412, 2355415
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2355408, 2355411, 2355414
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2355408, 2355411, 2355414
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2355408, 2355411, 2355414
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2355408, 2355411, 2355414

Reference Method Descriptions

Method	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2355409, 2355412, 2355415
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2355422
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2355421
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2355422
EPA 8270E	PCBs in water matrices by GC/MS/MS	2355421
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2355421
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2355419
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2355420
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2355407, 2355410, 2355413
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2355407, 2355410, 2355413
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2355407, 2355410, 2355413
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2355407, 2355410, 2355413
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2355408, 2355411, 2355414

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	09/09/2022			09/09/2022 16:17	Samantha L Bates	2355407, 2355410
	09/09/2022			09/09/2022 16:18	Samantha L Bates	2355413
EPA 180.1 Rev. 2.0	09/09/2022			09/09/2022 13:30	Khloe J Berg	2355407
	09/09/2022			09/09/2022 13:31	Khloe J Berg	2355410
	09/09/2022			09/09/2022 13:32	Khloe J Berg	2355413
EPA 300.0 Rev. 2.1	09/09/2022			09/16/2022 22:24	Anna M. Plaviak	2355407
	09/09/2022			09/16/2022 22:40	Anna M. Plaviak	2355410
	09/09/2022			09/17/2022 01:10	Anna M. Plaviak	2355413
EPA 300.0 Rev. 2.1 dissolved	09/09/2022			09/20/2022 13:31	James L Waggeberby	2355409
	09/09/2022			09/20/2022 13:46	James L Waggeberby	2355412
	09/09/2022			09/20/2022 14:01	James L Waggeberby	2355415
EPA 350.1 Rev. 2.0	09/09/2022			09/15/2022 11:03	Ping Hua	2355411
	09/09/2022			09/15/2022 11:12	Ping Hua	2355408
	09/09/2022			09/15/2022 11:16	Ping Hua	2355414
EPA 351.2 Rev. 2.0	09/09/2022	09/14/2022 13:25	Samantha L Bates	09/15/2022 13:18	Samantha L Bates	2355408
	09/09/2022	09/14/2022 13:25	Samantha L Bates	09/15/2022 13:19	Samantha L Bates	2355414
	09/09/2022	09/14/2022 13:25	Samantha L Bates	09/20/2022 11:26	Samantha L Bates	2355411
EPA 353.2 Rev. 2.0	09/09/2022			09/20/2022 13:53	Beverly Y. Sanders	2355408
	09/09/2022			09/20/2022 13:54	Beverly Y. Sanders	2355411
	09/09/2022			09/20/2022 13:55	Beverly Y. Sanders	2355414
EPA 365.1 Rev. 2.0	09/09/2022	09/15/2022 15:47	Adam P Silver	09/15/2022 19:32	James L Waggeberby	2355408
	09/09/2022	09/15/2022 15:47	Adam P Silver	09/16/2022 13:32	James L Waggeberby	2355414
	09/09/2022	09/15/2022 15:47	Adam P Silver	09/16/2022 13:42	James L Waggeberby	2355411
EPA 365.1 Rev. 2.0 dissolved	09/09/2022			09/09/2022 13:13	Chandler E Cox	2355409
	09/09/2022			09/09/2022 13:25	Chandler E Cox	2355415
	09/09/2022			09/09/2022 13:42	Chandler E Cox	2355412
EPA 8270E	09/09/2022	09/13/2022 08:45	Rasheda Ghaffari	09/15/2022 23:08	Vandana T. Nagar	2355421
	09/09/2022	09/13/2022 08:45	Rasheda Ghaffari	09/16/2022 02:23	Julie Wi	2355421
	09/09/2022	09/14/2022 08:30	Rasheda Ghaffari	09/18/2022 20:53	Michael Poppell	2355422
	09/09/2022	09/14/2022 08:30	Rasheda Ghaffari	09/21/2022 00:10	Michael Poppell	2355422
	09/09/2022	09/14/2022 08:30	Rasheda Ghaffari	09/21/2022 00:37	Michael Poppell	2355422
	09/09/2022	10/02/2022 09:30	Rasheda Ghaffari	10/03/2022 22:53	Lipi Saha	2355422
EPA 8276	09/09/2022	09/13/2022 08:45	Rasheda Ghaffari	09/16/2022 15:14	Arthur Maknenko	2355421
EPA 8321B	09/09/2022	09/13/2022 08:00	Manjita Shrestha	09/13/2022 12:25	Manjita Shrestha	2355420
	09/09/2022	09/13/2022 08:00	Manjita Shrestha	09/14/2022 00:16	Manjita Shrestha	2355420
	09/09/2022	09/14/2022 08:45	June Rhew	09/14/2022 17:32	Juyoung Kim	2355419
	09/09/2022	09/15/2022 09:00	June Rhew	09/20/2022 20:07	Juyoung Kim	2355420
SM 2320 B-2011	09/09/2022			09/17/2022 02:33	Dale L. Simmons	2355410
	09/09/2022			09/17/2022 06:28	Dale L. Simmons	2355407
	09/09/2022			09/20/2022 17:09	Dale L. Simmons	2355413

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2540 C-2011	09/09/2022			09/14/2022 15:45	Yijie Li	2355407, 2355410, 2355413
SM 2540 D-2011	09/09/2022			09/14/2022 15:45	Yijie Li	2355407, 2355410, 2355413
SM 4500-F- C-2011	09/09/2022			09/17/2022 02:24	Dale L. Simmons	2355410
	09/09/2022			09/17/2022 06:28	Dale L. Simmons	2355407
	09/09/2022			09/17/2022 08:18	Dale L. Simmons	2355413
SM 5310 B-2011	09/09/2022			09/14/2022 21:49	Khloe J Berg	2355408
	09/09/2022			09/15/2022 00:26	Khloe J Berg	2355411
	09/09/2022			09/15/2022 00:42	Khloe J Berg	2355414