

Chemical Analysis Report

SO-DIST-2022-11-01-01

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

Event Description: **2022 SMP : Croal Creek**
Request ID: **RQ-2022-10-31-34**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
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Certified by: Colin Wright, Program Administrator

Date Certified: 21-NOV-2022 13:02



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: CoralCreekEast

Collection Date/Time: 10/31/2022 11:30

Field ID: G2SD0046

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366244	EPA 180.1 Rev. 2.0	Turbidity	22		NTU	P421733	
	SM 2320 B-2011	Total Alkalinity	130		mg CaCO3/L	P422118	
	SM 2540 D-2015	TSS	7	I	mg/L	P421964	
	SM 4500-F- C-2011	Fluoride	0.52		mg F/L	P422122	
2366246	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P422136	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P421876	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P422027	
	EPA 365.1 Rev. 2.0	Total-P	0.075		mg P/L	P421935	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P422326	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 10/31/2022 11:45

Field ID: FB_10312022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366248	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P421733	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P422006	
	SM 2540 D-2015	TSS	2	U	mg/L	P421963	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P422020	
2366249	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P422035	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P421877	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P421939	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P422073	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P421998	

Ref. Method and Comment:

SM 2540 D-2015: 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: Coral Creek (East) Upstream of Golf Course

Collection Date/Time: 10/31/2022 12:30

Field ID: G2SD0039

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366245	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P421733	
	SM 2320 B-2011	Total Alkalinity	120		mg CaCO3/L	P422118	
	SM 2540 D-2015	TSS	6	I	mg/L	P421964	
	SM 4500-F- C-2011	Fluoride	0.87		mg F/L	P422122	
2366247	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P422136	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.16	U	mg N/L	P421876	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P422027	
	EPA 365.1 Rev. 2.0	Total-P	0.053		mg P/L	P421935	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P422326	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: GOTTFRIED CREEK @ DEER CREEK MOBILE HOME **Collection Date/Time: 10/31/2022 13:30**

Field ID: G2SD0028

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366257	EPA 8270E	Aldrin	0.70	U	ng/L	P421853	CCV
		Alpha-BHC	0.11	I	ng/L	P421853	
		Alpha-Chlordane	0.22	U	ng/L	P421853	
		PCB-1016	2.2	U	ng/L	P421853	
		Beta-BHC	0.29	I	ng/L	P421853	
		PCB-1221	2.2	U	ng/L	P421853	
		Beta-Cyfluthrin	1.4	U	ng/L	P421853	
		PCB-1232	2.2	U	ng/L	P421853	
		Bifenthrin	0.54	U	ng/L	P421853	
		PCB-1242	2.2	U	ng/L	P421853	
		PCB-1248	2.2	U	ng/L	P421853	
		Chlorothalonil	1.4	UJ	ng/L	P421853	
		PCB-1254	2.2	U	ng/L	P421853	
		Cis-Nonachlor	0.22	U	ng/L	P421853	
		PCB-1260	2.2	U	ng/L	P421853	
		Cypermethrin	1.6	U	ng/L	P421853	
		Dacthal	0.16	U	ng/L	P421853	
		DDD-p,p'	0.27	U	ng/L	P421853	
		DDE-p,p'	0.22	U	ng/L	P421853	
		DDT-p,p'	0.27	U	ng/L	P421853	
		Delta-BHC	0.43	U	ng/L	P421853	
		Deltamethrin	1.4	U	ng/L	P421853	
		Dichlobenil	0.27	U	ng/L	P421853	
		Dicofol	1.4	U	ng/L	P421853	
		Dieldrin	0.43	U	ng/L	P421853	
		Endosulfan I	0.43	U	ng/L	P421853	
		Endosulfan II	0.43	U	ng/L	P421853	
		Endosulfan Sulfate	0.33	U	ng/L	P421853	
		Endrin	0.43	U	ng/L	P421853	
		Endrin Aldehyde	0.81	U	ng/L	P421853	
		Endrin Ketone	0.43	U	ng/L	P421853	
		Esfenvalerate	0.81	U	ng/L	P421853	
		Ethalfuralin	0.16	U	ng/L	P421853	
		Fenpropathrin	0.27	U	ng/L	P421853	
		Gamma-BHC	0.14	U	ng/L	P421853	
		Gamma-Chlordane	0.22	U	ng/L	P421853	
		Heptachlor	0.22	U	ng/L	P421853	
		Heptachlor Epoxide	0.27	U	ng/L	P421853	
		Hexachlorobenzene**	1.1	U	ng/L	P421853	
		Kepone	5.4	U	ng/L	P421853	
		Lambda-Cyhalothrin	1.1	I	ng/L	P421853	
		Methoprene	0.81	U	ng/L	P421853	
		Methoxychlor	0.33	U	ng/L	P421853	

Field ID: G2SD0028

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366257	EPA 8270E	MGK-264	0.22	U	ng/L	P421853	
		Mirex	0.38	U	ng/L	P421853	
		Oxychlordane	0.33	U	ng/L	P421853	
		Permethrin	1.7	U	ng/L	P421853	
		Phenothrin	0.98	U	ng/L	P421853	
		Piperonyl Butoxide	0.18	I	ng/L	P421853	
		Prallethrin	2.2	U	ng/L	P421853	
		Tau-Fluvalinate	0.27	U	ng/L	P421853	
		Tetramethrin	0.81	U	ng/L	P421853	
		Trans-Nonachlor	0.22	U	ng/L	P421853	
		Triclosan Methyl	0.16	U	ng/L	P421853	
		Trifluralin	0.22	U	ng/L	P421853	
		Chlordane	2.4	I J	ng/L	P421853	LCS
		Toxaphene	16	UJ	ng/L	P421853	LCS
2366258	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P421812	
		Acetochlor	0.24	U	ng/L	P421812	
		Octinoxate**	19	U	ng/L	P421812	
		Alachlor	0.24	U	ng/L	P421812	
		Avobenzone**	95	U	ng/L	P421812	
		Ametryn	0.57	U	ng/L	P421812	
		Atrazine	4.1		ng/L	P421812	
		PBDE-47**	3.8	U	ng/L	P421812	
		Atrazine Desethyl	1.4	U	ng/L	P421812	
		PBDE-99**	4.8	U	ng/L	P421812	
		Azinphos Methyl	1.9	U	ng/L	P421812	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P421812	
		Azoxystrobin	0.48	U	ng/L	P421812	
		Bromacil	1.7	I	ng/L	P421812	
		2-Ethylhexyl	11	U	ng/L	P421812	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P421812	
		Dechlorane Plus**	29	U	ng/L	P421812	
		Caffeine**	7.1	U	ng/L	P421812	
		Carbophenothion	0.19	U	ng/L	P421812	
		Carfentrazone Ethyl	0.095	U	ng/L	P421812	
		Chlorfenapyr	0.17	U	ng/L	P421812	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P421812	
		Chlorpyrifos Methyl	0.048	U	ng/L	P421812	
		Coumaphos	0.48	U	ng/L	P421812	
		Cyanazine	3.1	U	ng/L	P421812	
		Cyprodinil	0.095	U	ng/L	P421812	
		Demeton	1.4	U	ng/L	P421812	
		Diazinon	0.12	U	ng/L	P421812	
		Difenoconazole	0.57	U	ng/L	P421812	
		Dimethenamid	0.095	U	ng/L	P421812	

Field ID: G2SD0028

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366258	EPA 8270E	Dimethomorph	0.17	U	ng/L	P421812	
		Disulfoton	0.48	U	ng/L	P421812	
		Dithiopyr	0.60	U	ng/L	P421812	
		EPTC	1.2	U	ng/L	P421812	
		Ethion	0.14	U	ng/L	P421812	
		Ethoprop	0.095	U	ng/L	P421812	
		Etridiazole	0.14	U	ng/L	P421812	
		Fenamiphos	0.48	U	ng/L	P421812	
		Fenbuconazole	0.12	U	ng/L	P421812	
		Fipronil	0.24	U	ng/L	P421812	
		Fipronil Desulfinyl**	0.47	I	ng/L	P421812	
		Fipronil Sulfide	0.28	I	ng/L	P421812	
		Fipronil Sulfone	0.73		ng/L	P421812	
		Fluazifop-P-butyl	0.095	U	ng/L	P421812	
		Fludioxonil	0.12	U	ng/L	P421812	
		Flumioxazin	4.3	U	ng/L	P421812	
		Flutolanil	0.23	I	ng/L	P421812	
		Fluxapyroxad	0.52		ng/L	P421812	
		Fonofos	0.19	U	ng/L	P421812	
		Hexazinone	0.91	I	ng/L	P421812	
		Imazalil	0.71	U	ng/L	P421812	
		Iprodione	0.57	U	ng/L	P421812	
		Loratadine**	0.33	U	ng/L	P421812	
		Malathion	0.33	U	ng/L	P421812	
		Metalaxyl	0.71	U	ng/L	P421812	
		Metolachlor	0.33	U	ng/L	P421812	
		Metribuzin	1.4	U	ng/L	P421812	
		Mevinphos	1.0	U	ng/L	P421812	
		Molinate	0.29	U	ng/L	P421812	
		Myclobutanil	0.24	U	ng/L	P421812	
		Naled	1.4	U	ng/L	P421812	
		Napropamide	0.38	U	ng/L	P421812	
		Norflurazon	0.48	U	ng/L	P421812	
		Oxadiazon	6.7		ng/L	P421812	
		Oxyfluorfen	0.14	U	ng/L	P421812	
		Parathion Ethyl	0.24	U	ng/L	P421812	
		Parathion Methyl	0.52	U	ng/L	P421812	
		Pendimethalin	0.95	U	ng/L	P421812	
		Phenytol**	3.3	U	ng/L	P421812	
		Phorate	0.50	U	ng/L	P421812	
		Prodiamine	0.17	U	ng/L	P421812	
		Prometon	0.86	U	ng/L	P421812	
		Prometryn	0.19	U	ng/L	P421812	
		Pronamide	0.14	U	ng/L	P421812	
		Propanil	0.12	U	ng/L	P421812	

Field ID: G2SD0028

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366258	EPA 8270E	Propargite	1.4	U	ng/L	P421812	
		Propiconazole	0.56	I	ng/L	P421812	
		Pyraflufen Ethyl	0.24	U	ng/L	P421812	
		Pyridaben	0.43	U	ng/L	P421812	
		Pyriproxyfen	0.12	U	ng/L	P421812	
		Simazine	0.48	U	ng/L	P421812	
		Stirophos	0.12	U	ng/L	P421812	
		Sulfentrazone	4.1		ng/L	P421812	
		Tebuconazole	0.48	U	ng/L	P421812	
		Terbufos	0.095	U	ng/L	P421812	
		Terbuthylazine	0.41	U	ng/L	P421812	
		Thiobencarb	0.57	U	ng/L	P421812	
		Triadimefon	0.24	U	ng/L	P421812	
2366259	EPA 8321B	Acesulfame K	0.10	U	ug/L	P421714	
		2,4-D	0.0088		ug/L	P421744	
		AMPA	1.0	U	ug/L	P421714	
		2,4,5-T	0.0040	U	ug/L	P421744	
		Acetaminophen	0.0080	U	ug/L	P421744	
		Acetamiprid	0.0020	U	ug/L	P421744	
		Endothall	0.25	U	ug/L	P421714	MS
		Glufosinate	1.0	U	ug/L	P421714	
		Glyphosate	1.0	U	ug/L	P421714	
		Afidopyropen	0.0020	U	ug/L	P421744	
		Sucralose	0.38		ug/L	P421714	
		Bentazon	0.0079		ug/L	P421744	
		Benzovindiflupyr	0.0020	U	ug/L	P421744	
		Carbamazepine	8.0E-04	U	ug/L	P421744	
		Clothianidin	0.0020	U	ug/L	P421744	
		Dinotefuran	0.0020	U	ug/L	P421744	
		Diuron	0.0020	U	ug/L	P421744	
		Fenuron	0.032	U	ug/L	P421744	
		Fluridone	0.0070		ug/L	P421744	
		Imazapyr	0.11		ug/L	P421744	
		Hydrocodone	0.0020	U	ug/L	P421744	
		Ibuprofen	0.20	U	ug/L	P421744	
		Imidacloprid	0.0044	I	ug/L	P421744	
		Linuron	0.0040	U	ug/L	P421744	
		Mandestrobin	0.0020	U	ug/L	P421744	
		MCPP	0.0040	U	ug/L	P421744	
		Naproxen	0.0080	U	ug/L	P421744	
		Primidone	0.0040	U	ug/L	P421744	
		Pyraclostrobin	0.0020	U	ug/L	P421744	
		Silvex	0.0040	U	ug/L	P421744	
		Thiamethoxam	0.0020	U	ug/L	P421744	
		Tolfenpyrad	0.0020	U	ug/L	P421744	

Field ID: G2SD0028

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366259	EPA 8321B	Triclopyr	0.0040	U	ug/L	P421744	
2366260	EPA 200.7 Rev. 4.4	Calcium	264		mg/L	P421997	
		Iron	90	U	ug/L	P421997	
		Magnesium	709		mg/L	P421997	
		Strontium	4.66E+03		ug/L	P421997	
		Tin	9.0	U	ug/L	P421997	
		Titanium	2.8	I	ug/L	P421997	
		Vanadium	6.0	U	ug/L	P421997	
		Zinc	15	U	ug/L	P421997	
	EPA 200.8 Rev. 5.4	Aluminum	56	I	ug/L	P421997	
		Antimony	0.050	U	ug/L	P421997	
		Arsenic	0.83		ug/L	P421997	
		Beryllium	0.010	U	ug/L	P421997	
		Cadmium	0.020	U	ug/L	P421997	
		Chromium	0.40	U	ug/L	P421997	
		Cobalt	0.020	U	ug/L	P421997	
		Copper	0.40	U	ug/L	P421997	
		Lead	0.20	U	ug/L	P421997	
		Manganese	4.17		ug/L	P421997	
		Molybdenum	1.67		ug/L	P421997	
		Nickel	0.50	U	ug/L	P421997	
		Selenium	0.20	U	ug/L	P421997	
		Silver	0.010	U	ug/L	P421997	
		Thallium	0.10	U	ug/L	P421997	

Ref. Method and Comment:

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

EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for atrazine, prometon, and simazine not assessed due to high content of these parameters in the sample spiked.

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421733

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421997

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421997

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422035

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422136

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421876

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

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Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421877

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421939

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422027

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421935

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422073

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

Reference Method: EPA 8270E
Batch ID: P421812

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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421812

Component	Result	Code	Units
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
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	0.62	U	ng/L
Dithiopyr	0.62	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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421812

Component	Result	Code	Units
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	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	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	1.5	U	ng/L
Metribuzin	1.5	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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421812

Component	Result	Code	Units
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

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Reference Method: EPA 8270E

Batch ID: P421853

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
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

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Reference Method: EPA 8270E

Batch ID: P421853

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

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Reference Method: EPA 8270E

Batch ID: P421853

Component	Result	Code	Units
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: P421853

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P421714

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: P421744

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	0.20	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

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Method Blank Results

Reference Method: EPA 8321B

Batch ID: P421744

Component	Result	Code	Units
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: P422006

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

Reference Method: SM 2320 B-2011

Batch ID: P422118

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

Reference Method: SM 2540 D-2015

Batch ID: P421963

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P421964

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P422020

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011

Batch ID: P422122

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P421998

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

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Reference Method: SM 5310 B-2011
Batch ID: P422326

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P421733

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

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P421997

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	103		P	85 - 115
Magnesium	101		P	85 - 115
Strontium	100		P	85 - 115
Tin	100		P	85 - 115
Titanium	99.7		P	85 - 115
Vanadium	99.9		P	85 - 115
Zinc	97.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P421997

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	103		P	85 - 115
Beryllium	93.4		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	102		P	85 - 115
Cobalt	102		P	85 - 115
Copper	100		P	85 - 115
Lead	101		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	101		P	85 - 115
Selenium	104		P	85 - 115
Silver	106		P	85 - 115
Thallium	106		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P422035

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P422136

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P421876

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421877

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421939

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421935

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: P422073

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

Reference Method: EPA 8270E
Batch ID: P421812

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.0		P	42 - 162
Acetochlor	108		P	69 - 123
Alachlor	97.7		P	65 - 118
Ametryn	70.1		P	58 - 141
Atrazine	101		P	73 - 118
Atrazine Desethyl	72.2		P	32 - 125
Avobenzone	111		P	40 - 203
Azinphos Methyl	139		P	36 - 197
Azoxystrobin	121		P	58 - 226
Bromacil	65.7		P	48 - 120
Butylate	63.9		P	27 - 85.0
Caffeine	86.5		P	40 - 137
Carbophenothion	91.0		P	54 - 132
Carfentrazone Ethyl	106		P	60 - 142
Chlorfenapyr	71.7		P	53 - 117
Chlorpyrifos Ethyl	60.7		P	59 - 116
Chlorpyrifos Methyl	88.1		P	66 - 119
Coumaphos	33.9		P	11 - 234
Cyanazine	71.7		P	61 - 248
Cyprodinil	80.0		P	50 - 147
Dechlorane Plus	119		P	47 - 182
Demeton	81.3		P	30 - 138

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P421812

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diazinon	93.8		P	67 - 126
Difenoconazole	62.6		P	38 - 205
Dimethenamid	67.8		P	57 - 111
Dimethomorph	180		P	16 - 212
Disulfoton	65.9		P	46 - 126
Dithiopyr	80.0		P	62 - 115
EPTC	49.2		P	28 - 80.0
Ethion	66.7		P	24 - 122
Ethoprop	78.8		P	62 - 113
Etridiazole	58.1		P	28 - 92.0
Fenamiphos	73.0		P	57 - 128
Fenbuconazole	89.5		P	52 - 155
Fipronil	76.1		P	63 - 130
Fipronil Desulfinyl	78.8		P	61 - 130
Fipronil Sulfide	91.8		P	56 - 117
Fipronil Sulfone	58.1		P	52 - 118
Fluazifop-P-butyl	66.1		P	61 - 128
Fludioxonil	82.6		P	59 - 129
Flumioxazin	58.7		P	30 - 250
Flutolanil	62.4		P	53 - 127
Fluxapyroxad	43.9		P	42 - 132
Fonofos	83.9		P	61 - 110
Hexazinone	83.0		P	46 - 139
Imazalil	86.0		P	40 - 139
Iprodione	76.4		P	40 - 146
Loratadine	211		P	10 - 224
Malathion	96.7		P	61 - 135
Metalaxyl	80.3		P	58 - 121
Metolachlor	83.5		P	64 - 118
Metribuzin	105		P	45 - 245
Mevinphos	81.6		P	49 - 118
Molinate	72.4		P	42 - 92.0
Myclobutanil	58.4		P	55 - 127
Naled	74.2		P	10 - 114
Napropamide	63.9		P	39 - 121
Norflurazon	63.2		P	55 - 129
Octinoxate	94.7		P	26 - 166
Oxadiazon	61.8		P	54 - 115
Oxybenzone	89.2		P	49 - 135
Oxyfluorfen	72.1		P	64 - 139
Parathion Ethyl	86.6		P	70 - 111
Parathion Methyl	116		P	76 - 136
PBDE-47	71.7		P	41 - 148
PBDE-99	61.8		P	38 - 147
Pendimethalin	79.5		P	52 - 118
Phenytol	38.3		P	10 - 162
Phorate	73.3		P	40 - 122
Prodiamine	32.1		P	26 - 141
Prometon	54.9		P	54 - 122
Prometryn	118		P	61 - 128
Pronamide	98.8		P	72 - 121
Propanil	99.3		P	45 - 144

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P421812

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propargite	32.1		P	10 - 199
Propiconazole	124		P	56 - 127
Pyraflufen Ethyl	56.5		P	56 - 140
Pyridaben	50.3		P	26 - 211
Pyriproxyfen	38.6		P	33 - 194
Simazine	91.9		P	67 - 121
Stirophos	22.5		P	20 - 142
Sulfentrazone	45.1		P	21 - 144
Tebuconazole	12.9		P	10 - 122
Terbufos	83.2		P	60 - 129
Terbuthylazine	94.2		P	69 - 113
Thiobencarb	80.6		P	51 - 120
Tri-o-cresyl Phosphate	89.4		P	49 - 150
Triadimefon	60.4		P	56 - 114

Reference Method: EPA 8270E

Batch ID: P421853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	58.5		P	10 - 92.0
Alpha-BHC	88.2		P	75 - 107
Alpha-Chlordane	85.2		P	50 - 108
Beta-BHC	109		P	36 - 138
Beta-Cyfluthrin	83.4		P	20 - 161
Bifenthrin	59.5		P	10 - 119
Chlorothalonil	153		P	26 - 186
Cis-Nonachlor	75.4		P	42 - 119
Cypermethrin	90.6		P	22 - 150
Dacthal	87.6		P	72 - 119
DDD-p,p'	77.7		P	45 - 107
DDE-p,p'	77.2		P	48 - 106
DDT-p,p'	74.2		P	48 - 110
Delta-BHC	135		P	54 - 140
Deltamethrin	109		P	22 - 189
Dichlobenil	92.1		P	36 - 117
Dicofol	72.0		P	46 - 155
Dieldrin	80.8		P	54 - 110
Endosulfan I	77.8		P	59 - 105
Endosulfan II	94.1		P	51 - 118
Endosulfan Sulfate	107		P	57 - 121
Endrin	78.6		P	10 - 120
Endrin Aldehyde	85.7		P	34 - 118
Endrin Ketone	86.0		P	69 - 177
Esfenvalerate	92.8		P	23 - 168
Ethalfuralin	74.4		P	49 - 99.0
Fenpropathrin	83.7		P	34 - 117
Gamma-BHC	93.5		P	72 - 117
Gamma-Chlordane	79.6		P	43 - 106
Heptachlor	68.0		P	41 - 98.0
Heptachlor Epoxide	76.2		P	57 - 106
Hexachlorobenzene	78.6		P	36 - 99.0
Kepone	94.9		P	16 - 215

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P421853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lambda-Cyhalothrin	78.7		P	21 - 177
Methoprene	61.6		P	10 - 119
Methoxychlor	78.0		P	60 - 112
MGK-264	91.4		P	26 - 122
Mirex	61.9		P	10 - 169
Oxychlordane	66.4		P	43 - 105
PCB-1016	82.9		P	48 - 112
PCB-1260	76.4		P	44 - 118
Permethrin	83.5		P	24 - 148
Phenothrin	61.5		P	10 - 106
Piperonyl Butoxide	84.9		P	10 - 139
Prallethrin	87.7		P	17 - 109
Tau-Fluvalinate	81.2		P	13 - 131
Tetramethrin	112		P	10 - 132
Trans-Nonachlor	72.8		P	44 - 106
Triclosan Methyl	77.3		P	59 - 109
Trifluralin	69.2		P	44 - 101

Reference Method: EPA 8276

Batch ID: P421853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	140		F	61 - 116
Toxaphene	130		F	48 - 124

Reference Method: EPA 8321B

Batch ID: P421714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	90.2		P	40 - 150
AMPA	116		P	40 - 150
Endothall	101		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	103		P	40 - 150
Sucralose	83.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P421744

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	78.0		P	40 - 150
2,4,5-T	65.3		P	40 - 150
Acetaminophen	98.6		P	30 - 150
Acetamiprid	86.4		P	40 - 150
Afidopyropen	70.5		P	30 - 150
Bentazon	104		P	30 - 150
Benzovindiflupyr	89.0		P	40 - 150
Carbamazepine	93.0		P	40 - 150
Clothianidin	108		P	40 - 150
Dinotefuran	110		P	40 - 150
Diuron	84.6		P	40 - 150
Fenuron	110		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P421744

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluridone	93.7		P	40 - 150
Hydrocodone	103		P	40 - 150
Ibuprofen	73.8		P	40 - 150
Imazapyr	84.4		P	40 - 150
Imidacloprid	102		P	40 - 150
Linuron	98.5		P	40 - 150
Mandestrobin	90.3		P	40 - 150
MCPP	84.7		P	40 - 150
Naproxen	56.9		P	40 - 150
Primidone	99.1		P	40 - 150
Pyraclostrobin	79.2		P	40 - 150
Silvex	62.1		P	40 - 150
Thiamethoxam	102		P	40 - 150
Tolfenpyrad	41.6		P	30 - 150
Triclopyr	61.4		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P422006

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

Reference Method: SM 2320 B-2011
Batch ID: P422118

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.9		P	94 - 106

Reference Method: SM 2540 D-2015
Batch ID: P421963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.7		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P421964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.6		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P422020

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

Reference Method: SM 4500-F- C-2011
Batch ID: P422122

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P421998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.3		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P422326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P421997

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366279	Iron	108	103	P/P	70 - 130
2366279	Tin	102	97.2	P/P	70 - 130
2366279	Titanium	101	100	P/P	70 - 130
2366279	Vanadium	107	107	P/P	70 - 130
2366279	Zinc	105	104	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P421997

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366279	Aluminum	98.6	97.7	P/P	70 - 130
2366279	Antimony	99.3	100	P/P	70 - 130
2366279	Arsenic	117	117	P/P	70 - 130
2366279	Beryllium	113	108	P/P	70 - 130
2366279	Cadmium	95.2	96.0	P/P	70 - 130
2366279	Chromium	101	103	P/P	70 - 130
2366279	Cobalt	116	118	P/P	70 - 130
2366279	Copper	114	116	P/P	70 - 130
2366279	Lead	106	107	P/P	70 - 130
2366279	Manganese	99.9	101	P/P	70 - 130
2366279	Molybdenum	116	118	P/P	70 - 130
2366279	Nickel	116	118	P/P	70 - 130
2366279	Selenium	107	106	P/P	70 - 130
2366279	Silver	94.5	94.8	P/P	70 - 130
2366279	Thallium	112	114	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P422035

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366203	Ammonia-N	96.6	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P422136

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367059	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P421876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366263	Kjeldahl Nitrogen	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P421939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366191	NO2NO3-N	108	108	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P422027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365943	NO2NO3-N	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P421935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365943	Total-P	98.6	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P422073

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366218	Total-P	106	109	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P421812

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367191	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	68.0	65.6	P/P	26 - 165
2367191	Acetochlor	96.3	103	P/P	67 - 124
2367191	Alachlor	83.6	79.1	P/P	60 - 120
2367191	Ametryn	118	106	P/P	54 - 216
2367191	Atrazine Desethyl	28.4	46.1	P/P	15 - 122
2367191	Avobenzone	78.4	73.0	P/P	37 - 178
2367191	Azinphos Methyl	140	128	P/P	40 - 292
2367191	Azoxystrobin	128	137	P/P	35 - 220
2367191	Bromacil	80.2	78.6	P/P	45 - 127
2367191	Butylate	42.4	43.8	P/P	20 - 83.0
2367191	Caffeine	94.6	93.1	P/P	10 - 194
2367191	Carbophenothion	122	123	P/P	57 - 127
2367191	Carfentrazone Ethyl	91.4	92.2	P/P	51 - 141
2367191	Chlorfenapyr	82.6	83.6	P/P	46 - 111
2367191	Chlorpyrifos Ethyl	77.5	74.3	P/P	52 - 120
2367191	Chlorpyrifos Methyl	82.3	91.2	P/P	63 - 119
2367191	Coumaphos	72.0	76.4	P/P	10 - 228
2367191	Cyanazine	85.8	87.7	P/P	59 - 241
2367191	Cyprodinil	67.4	81.7	P/P	47 - 146
2367191	Dechlorane Plus	61.5	64.9	P/P	50 - 150
2367191	Demeton	85.0	83.6	P/P	40 - 136
2367191	Diazinon	111	101	P/P	69 - 132
2367191	Difenoconazole	98.4	86.0	P/P	57 - 258
2367191	Dimethenamid	67.3	78.1	P/P	54 - 110
2367191	Dimethomorph	138	172	P/P	28 - 210
2367191	Disulfoton	88.4	84.9	P/P	43 - 133
2367191	Dithiopyr	73.5	73.4	P/P	39 - 116
2367191	EPTC	33.9	39.3	P/P	20 - 78.0
2367191	Ethion	69.7	97.2	P/P	17 - 119
2367191	Ethoprop	80.2	82.6	P/P	66 - 120
2367191	Etridiazole	51.8	48.6	P/P	28 - 96.0
2367191	Fenamiphos	86.4	79.8	P/P	41 - 126
2367191	Fenbuconazole	161	96.3	P/P	42 - 169
2367191	Fipronil	93.8	96.3	P/P	61 - 132

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P421812

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367191	Fipronil Desulfinyl	76.1	72.5	P/P	56 - 132
2367191	Fipronil Sulfide	92.7	102	P/P	48 - 119
2367191	Fipronil Sulfone	56.8	96.1	P/P	42 - 131
2367191	Fluazifop-P-butyl	73.2	97.4	P/P	53 - 131
2367191	Fludioxonil	78.6	95.9	P/P	56 - 127
2367191	Flumioxazin	96.8	117	P/P	19 - 300
2367191	Flutolanil	68.6	77.3	P/P	41 - 127
2367191	Fluxapyroxad	51.7	73.9	P/P	42 - 172
2367191	Fonofos	81.2	90.2	P/P	59 - 113
2367191	Hexazinone	80.1	91.0	P/P	66 - 122
2367191	Imazalil	79.9	83.9	P/P	21 - 283
2367191	Iprodione	88.2	105	P/P	43 - 150
2367191	Loratadine	88.9	81.8	P/P	23 - 201
2367191	Malathion	118	109	P/P	58 - 136
2367191	Metaxyl	77.8	79.2	P/P	55 - 120
2367191	Metolachlor	82.8	86.7	P/P	57 - 121
2367191	Metribuzin	96.4	96.1	P/P	58 - 294
2367191	Mevinphos	74.5	76.0	P/P	50 - 126
2367191	Molinate	64.0	64.4	P/P	42 - 93.0
2367191	Myclobutanil	67.0	86.8	P/P	55 - 125
2367191	Naled	80.8	82.6	P/P	18 - 200
2367191	Napropamide	84.1	90.3	P/P	39 - 110
2367191	Norflurazon	73.6	72.8	P/P	48 - 128
2367191	Octinoxate	56.7	52.0	P/P	21 - 159
2367191	Oxadiazon	66.2	71.6	P/P	43 - 112
2367191	Oxybenzone	60.0	53.8	P/P	41 - 142
2367191	Oxyfluorfen	83.7	99.4	P/P	64 - 153
2367191	Parathion Ethyl	91.9	80.3	P/P	69 - 114
2367191	Parathion Methyl	134	109	P/P	79 - 139
2367191	PBDE-47	58.5	59.5	P/P	27 - 144
2367191	PBDE-99	51.7	55.2	P/P	18 - 150
2367191	Pendimethalin	93.1	78.5	P/P	50 - 139
2367191	Phenytoin	44.8	63.8	P/P	10 - 146
2367191	Phorate	66.4	72.0	P/P	54 - 161
2367191	Prodiamine	41.0	36.7	P/P	30 - 161
2367191	Prometryn	61.8	47.7	P/P	45 - 137
2367191	Pronamide	103	103	P/P	65 - 133
2367191	Propanil	76.2	90.3	P/P	49 - 142
2367191	Propargite	39.2	56.1	P/P	10 - 203
2367191	Propiconazole	75.4	66.1	P/P	38 - 146
2367191	Pyraflufen Ethyl	126	125	P/P	34 - 153
2367191	Pyridaben	79.0	81.5	P/P	12 - 192
2367191	Pyriproxyfen	73.1	77.1	P/P	33 - 180
2367191	Stirophos	74.5	79.6	P/P	10 - 128
2367191	Sulfentrazone	56.0	98.8	P/P	53 - 186
2367191	Tebuconazole	24.3	48.5	P/P	10 - 133
2367191	Terbufos	97.3	95.7	P/P	65 - 139
2367191	Terbutylazine	89.0	96.7	P/P	66 - 117
2367191	Thiobencarb	88.1	72.7	P/P	51 - 119
2367191	Tri-o-cresyl Phosphate	53.4	53.2	P/P	31 - 144
2367191	Triadimefon	67.6	76.8	P/P	48 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P421853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366171	Aldrin	51.6	50.0	P/P	20 - 82.0
2366171	Alpha-BHC	85.0	80.9	P/P	71 - 109
2366171	Alpha-Chlordane	80.9	77.7	P/P	42 - 106
2366171	Beta-BHC	107	98.0	P/P	69 - 180
2366171	Beta-Cyfluthrin	74.8	68.5	P/P	18 - 175
2366171	Bifenthrin	52.4	48.7	P/P	21 - 128
2366171	Chlorothalonil	183	166	P/P	10 - 300
2366171	Cis-Nonachlor	69.1	67.9	P/P	34 - 106
2366171	Cypermethrin	80.3	70.7	P/P	22 - 158
2366171	Dacthal	84.9	80.5	P/P	54 - 116
2366171	DDD-p,p'	76.9	74.6	P/P	34 - 107
2366171	DDE-p,p'	71.6	73.6	P/P	33 - 110
2366171	DDT-p,p'	70.1	70.1	P/P	50 - 122
2366171	Delta-BHC	127	117	P/P	77 - 193
2366171	Deltamethrin	92.2	93.3	P/P	10 - 195
2366171	Dichlobenil	85.7	80.4	P/P	25 - 113
2366171	Dicofol	70.2	68.8	P/P	38 - 247
2366171	Dieldrin	72.3	74.8	P/P	45 - 118
2366171	Endosulfan I	71.8	71.7	P/P	51 - 106
2366171	Endosulfan II	84.8	84.6	P/P	37 - 122
2366171	Endosulfan Sulfate	103	93.4	P/P	43 - 132
2366171	Endrin	75.2	75.7	P/P	29 - 101
2366171	Endrin Aldehyde	77.5	80.3	P/P	19 - 110
2366171	Endrin Ketone	67.0	64.4	P/P	60 - 140
2366171	Esfenvalerate	75.9	78.9	P/P	26 - 199
2366171	Ethalfuralin	70.2	67.7	P/P	45 - 99.0
2366171	Fenpropathrin	78.0	69.2	P/P	35 - 120
2366171	Gamma-BHC	78.4	81.9	P/P	63 - 128
2366171	Gamma-Chlordane	81.7	72.4	P/P	40 - 104
2366171	Heptachlor	59.5	59.7	P/P	36 - 97.0
2366171	Heptachlor Epoxide	71.6	73.3	P/P	49 - 184
2366171	Hexachlorobenzene	76.9	70.3	P/P	39 - 96.0
2366171	Kepone	93.9	79.0	P/P	10 - 217
2366171	Lambda-Cyhalothrin	72.1	66.2	P/P	21 - 193
2366171	Methoprene	52.5	53.3	P/P	20 - 106
2366171	Methoxychlor	76.5	69.0	P/P	53 - 118
2366171	MGK-264	84.8	86.3	P/P	40 - 118
2366171	Mirex	56.0	52.2	P/P	26 - 92.0
2366171	Oxychlordane	60.4	70.3	P/P	44 - 99.0
2366171	Permethrin	72.2	68.1	P/P	33 - 182
2366171	Phenothrin	57.1	55.9	P/P	10 - 129
2366171	Piperonyl Butoxide	70.5	72.4	P/P	10 - 211
2366171	Prallethrin	79.2	83.5	P/P	24 - 113
2366171	Tau-Fluvalinate	70.8	71.7	P/P	14 - 149
2366171	Tetramethrin	96.3	98.4	P/P	17 - 151
2366171	Trans-Nonachlor	60.2	68.6	P/P	42 - 102
2366171	Triclosan Methyl	74.5	74.4	P/P	48 - 108
2366171	Trifluralin	70.6	66.7	P/P	47 - 96.0
2366173	PCB-1016	78.6	78.8	P/P	46 - 111
2366173	PCB-1260	63.4	63.5	P/P	45 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P421853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366173	Chlordane	119	120	P/P	53 - 126
2366173	Toxaphene	116	115	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P421714

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366047	Acesulfame K	76.5	77.7	P/P	40 - 150
2366047	AMPA	85.9	92.7	P/P	40 - 150
2366047	Endothall	193	193	F/F	40 - 150
2366047	Glufosinate	81.1	90.0	P/P	40 - 150
2366047	Glyphosate	85.5	95.0	P/P	40 - 150
2366047	Sucralose	92.2	94.6	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P421744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366175	2,4-D	81.1	106	P/P	40 - 150
2366175	2,4,5-T	66.7	79.3	P/P	40 - 150
2366175	Acetaminophen	106	108	P/P	30 - 150
2366175	Acetamiprid	85.2	105	P/P	40 - 150
2366175	Afidopyropen	67.8	78.2	P/P	30 - 150
2366175	Bentazon	103	115	P/P	30 - 150
2366175	Benzovindiflupyr	102	106	P/P	40 - 150
2366175	Carbamazepine	110	107	P/P	40 - 150
2366175	Clothianidin	118	140	P/P	40 - 150
2366175	Dinotefuran	121	131	P/P	40 - 150
2366175	Diuron	91.2	94.9	P/P	40 - 150
2366175	Fenuron	114	127	P/P	40 - 150
2366175	Fluridone	113	113	P/P	40 - 150
2366175	Hydrocodone	114	132	P/P	40 - 150
2366175	Ibuprofen	75.2	93.0	P/P	40 - 150
2366175	Imazapyr	102	115	P/P	40 - 150
2366175	Imidacloprid	112	118	P/P	40 - 150
2366175	Linuron	97.8	94.9	P/P	40 - 150
2366175	Mandestrobin	94.4	104	P/P	40 - 150
2366175	MCPP	95.6	111	P/P	40 - 150
2366175	Naproxen	80.3	79.0	P/P	40 - 150
2366175	Primidone	98.9	119	P/P	40 - 150
2366175	Pyraclostrobin	95.8	98.8	P/P	40 - 150
2366175	Silvex	66.8	75.0	P/P	40 - 150
2366175	Thiamethoxam	118	126	P/P	40 - 150
2366175	Tolfenpyrad	54.8	51.4	P/P	30 - 150
2366175	Triclopyr	66.7	80.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P422020

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366166	Fluoride	102	102	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P422122

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366262	Fluoride	96.6	96.6	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P421998

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366238	Organic Carbon	97.8	98.6	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P422326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366263	Organic Carbon	90.4	91.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P421733

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366195	Turbidity	17.0	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P421997

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366279	Calcium	0.639	Spike	P	0 - 20
2366279	Iron	4.35	Spike	P	0 - 20
2366279	Magnesium	0.528	Spike	P	0 - 20
2366279	Strontium	1.73	Spike	P	0 - 20
2366279	Tin	4.39	Spike	P	0 - 20
2366279	Titanium	0.744	Spike	P	0 - 20
2366279	Vanadium	0.0501	Spike	P	0 - 20
2366279	Zinc	1.14	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P421997

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366279	Aluminum	0.922	Spike	P	0 - 20
2366279	Antimony	0.692	Spike	P	0 - 20
2366279	Arsenic	0.668	Spike	P	0 - 20
2366279	Beryllium	4.24	Spike	P	0 - 20
2366279	Cadmium	0.870	Spike	P	0 - 20
2366279	Chromium	1.97	Spike	P	0 - 20
2366279	Cobalt	1.83	Spike	P	0 - 20
2366279	Copper	1.44	Spike	P	0 - 20
2366279	Lead	0.778	Spike	P	0 - 20
2366279	Manganese	0.543	Spike	P	0 - 20
2366279	Molybdenum	1.54	Spike	P	0 - 20
2366279	Nickel	1.31	Spike	P	0 - 20
2366279	Selenium	0.725	Spike	P	0 - 20
2366279	Silver	0.318	Spike	P	0 - 20
2366279	Thallium	1.77	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P422035

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366203	Ammonia-N	1.06	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P422136

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367059	Ammonia-N	1.11	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366263	Kjeldahl Nitrogen	0.112	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366203	Kjeldahl Nitrogen	3.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366191	NO2NO3-N	0.464	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365943	NO2NO3-N	0.462	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365943	Total-P	0.707	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366218	Total-P	2.66	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P421812

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367191	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	3.65	Spike	P	0 - 37
2367191	Acetochlor	6.83	Spike	P	0 - 28
2367191	Alachlor	5.43	Spike	P	0 - 30
2367191	Ametryn	11.1	Spike	P	0 - 32
2367191	Atrazine	15.4	Spike	P	0 - 41
2367191	Atrazine Desethyl	17.2	Spike	P	0 - 36
2367191	Avobenzene	7.06	Spike	P	0 - 36
2367191	Azinphos Methyl	9.56	Spike	P	0 - 75
2367191	Azoxystrobin	6.45	Spike	P	0 - 39

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P421812

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367191	Bromacil	1.92	Spike	P	0 - 33
2367191	Butylate	3.08	Spike	P	0 - 44
2367191	Caffeine	1.56	Spike	P	0 - 74
2367191	Carbophenothion	1.23	Spike	P	0 - 25
2367191	Carfentrazone Ethyl	0.794	Spike	P	0 - 27
2367191	Chlorfenapyr	1.16	Spike	P	0 - 24
2367191	Chlorpyrifos Ethyl	4.20	Spike	P	0 - 26
2367191	Chlorpyrifos Methyl	10.2	Spike	P	0 - 26
2367191	Coumaphos	5.82	Spike	P	0 - 28
2367191	Cyanazine	2.13	Spike	P	0 - 48
2367191	Cyprodinil	19.1	Spike	P	0 - 29
2367191	Dechlorane Plus	5.32	Spike	P	0 - 30
2367191	Demeton	1.69	Spike	P	0 - 33
2367191	Diazinon	8.76	Spike	P	0 - 29
2367191	Difenoconazole	13.5	Spike	P	0 - 34
2367191	Dimethenamid	14.9	Spike	P	0 - 39
2367191	Dimethomorph	22.2	Spike	P	0 - 51
2367191	Disulfoton	4.09	Spike	P	0 - 30
2367191	Dithiopyr	0.161	Spike	P	0 - 26
2367191	EPTC	14.5	Spike	P	0 - 43
2367191	Ethion	32.9	Spike	P	0 - 79
2367191	Ethoprop	3.04	Spike	P	0 - 29
2367191	Etridiazole	6.46	Spike	P	0 - 33
2367191	Fenamiphos	8.03	Spike	P	0 - 40
2367191	Fenbuconazole	50.1	Spike	P	0 - 74
2367191	Fipronil	2.37	Spike	P	0 - 29
2367191	Fipronil Desulfinyl	3.69	Spike	P	0 - 32
2367191	Fipronil Sulfide	5.42	Spike	P	0 - 30
2367191	Fipronil Sulfone	25.5	Spike	P	0 - 33
2367191	Fluazifop-P-butyl	28.4	Spike	P	0 - 38
2367191	Fludioxonil	19.7	Spike	P	0 - 29
2367191	Flumioxazin	18.9	Spike	P	0 - 51
2367191	Flutolanil	11.9	Spike	P	0 - 25
2367191	Fluxapyroxad	35.3	Spike	P	0 - 45
2367191	Fonofos	10.6	Spike	P	0 - 27
2367191	Hexazinone	12.7	Spike	P	0 - 30
2367191	Imazalil	4.88	Spike	P	0 - 100
2367191	Iprodione	17.6	Spike	P	0 - 33
2367191	Loratadine	8.34	Spike	P	0 - 56
2367191	Malathion	6.33	Spike	P	0 - 37
2367191	Metalaxyl	1.80	Spike	P	0 - 40
2367191	Metolachlor	4.40	Spike	P	0 - 29
2367191	Metribuzin	0.342	Spike	P	0 - 45
2367191	Mevinphos	2.07	Spike	P	0 - 29
2367191	Molinate	0.729	Spike	P	0 - 33
2367191	Myclobutanil	25.7	Spike	P	0 - 26
2367191	Naled	2.23	Spike	P	0 - 37
2367191	Napropamide	7.05	Spike	P	0 - 44
2367191	Norflurazon	1.12	Spike	P	0 - 30
2367191	Octinoxate	8.71	Spike	P	0 - 45
2367191	Oxadiazon	7.89	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P421812

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367191	Oxybenzone	10.9	Spike	P	0 - 46
2367191	Oxyfluorfen	17.1	Spike	P	0 - 28
2367191	Parathion Ethyl	13.5	Spike	P	0 - 31
2367191	Parathion Methyl	20.4	Spike	P	0 - 29
2367191	PBDE-47	1.61	Spike	P	0 - 36
2367191	PBDE-99	6.58	Spike	P	0 - 40
2367191	Pendimethalin	17.0	Spike	P	0 - 33
2367191	Phenytoin	35.0	Spike	P	0 - 100
2367191	Phorate	8.01	Spike	P	0 - 36
2367191	Prodiamine	11.0	Spike	P	0 - 71
2367191	Prometon	27.0	Spike	P	0 - 36
2367191	Prometryn	25.7	Spike	P	0 - 28
2367191	Pronamide	0.215	Spike	P	0 - 24
2367191	Propanil	16.9	Spike	P	0 - 28
2367191	Propargite	35.5	Spike	P	0 - 43
2367191	Propiconazole	13.1	Spike	P	0 - 33
2367191	Pyraflufen Ethyl	0.791	Spike	P	0 - 29
2367191	Pyridaben	3.16	Spike	P	0 - 30
2367191	Pyriproxyfen	5.39	Spike	P	0 - 79
2367191	Simazine	1.71	Spike	P	0 - 29
2367191	Stiropfos	6.66	Spike	P	0 - 61
2367191	Sulfentrazone	26.5	Spike	P	0 - 33
2367191	Tebuconazole	66.5	Spike	P	0 - 69
2367191	Terbufos	1.60	Spike	P	0 - 29
2367191	Terbuthylazine	8.35	Spike	P	0 - 32
2367191	Thiobencarb	19.1	Spike	P	0 - 26
2367191	Tri-o-cresyl Phosphate	0.387	Spike	P	0 - 33
2367191	Triadimefon	12.7	Spike	P	0 - 28

Reference Method: EPA 8270E
Batch ID: P421853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366171	Aldrin	3.04	Spike	P	0 - 41
2366171	Alpha-BHC	4.85	Spike	P	0 - 25
2366171	Alpha-Chlordane	4.05	Spike	P	0 - 33
2366171	Beta-BHC	8.44	Spike	P	0 - 36
2366171	Beta-Cyfluthrin	8.81	Spike	P	0 - 42
2366171	Bifenthrin	7.37	Spike	P	0 - 53
2366171	Chlorothalonil	9.69	Spike	P	0 - 71
2366171	Cis-Nonachlor	1.71	Spike	P	0 - 29
2366171	Cypermethrin	12.8	Spike	P	0 - 40
2366171	Dacthal	5.28	Spike	P	0 - 26
2366171	DDD-p,p'	3.07	Spike	P	0 - 39
2366171	DDE-p,p'	2.74	Spike	P	0 - 33
2366171	DDT-p,p'	0.0201	Spike	P	0 - 40
2366171	Delta-BHC	8.58	Spike	P	0 - 37
2366171	Deltamethrin	1.22	Spike	P	0 - 100
2366171	Dichlobenil	6.46	Spike	P	0 - 40
2366171	Dicofol	2.09	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P421853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366171	Dieldrin	3.43	Spike	P	0 - 27
2366171	Endosulfan I	0.125	Spike	P	0 - 23
2366171	Endosulfan II	0.276	Spike	P	0 - 28
2366171	Endosulfan Sulfate	9.37	Spike	P	0 - 38
2366171	Endrin	0.619	Spike	P	0 - 63
2366171	Endrin Aldehyde	3.65	Spike	P	0 - 60
2366171	Endrin Ketone	3.83	Spike	P	0 - 37
2366171	Esfenvalerate	3.86	Spike	P	0 - 52
2366171	Ethalfuralin	3.68	Spike	P	0 - 23
2366171	Fenpropathrin	11.9	Spike	P	0 - 32
2366171	Gamma-BHC	4.37	Spike	P	0 - 17
2366171	Gamma-Chlordane	12.0	Spike	P	0 - 40
2366171	Heptachlor	0.286	Spike	P	0 - 29
2366171	Heptachlor Epoxide	2.35	Spike	P	0 - 25
2366171	Hexachlorobenzene	9.03	Spike	P	0 - 36
2366171	Kepone	17.2	Spike	P	0 - 93
2366171	Lambda-Cyhalothrin	8.51	Spike	P	0 - 55
2366171	Methoprene	1.46	Spike	P	0 - 53
2366171	Methoxychlor	10.2	Spike	P	0 - 29
2366171	MGK-264	1.77	Spike	P	0 - 35
2366171	Mirex	7.09	Spike	P	0 - 46
2366171	Oxychlordane	15.1	Spike	P	0 - 29
2366171	Permethrin	5.72	Spike	P	0 - 44
2366171	Phenothrin	2.08	Spike	P	0 - 56
2366171	Piperonyl Butoxide	2.68	Spike	P	0 - 100
2366171	Prallethrin	5.26	Spike	P	0 - 42
2366171	Tau-Fluvalinate	1.27	Spike	P	0 - 54
2366171	Tetramethrin	2.14	Spike	P	0 - 51
2366171	Trans-Nonachlor	13.1	Spike	P	0 - 37
2366171	Triclosan Methyl	0.212	Spike	P	0 - 31
2366171	Trifluralin	5.80	Spike	P	0 - 30
2366173	PCB-1016	0.208	Spike	P	0 - 32
2366173	PCB-1260	0.170	Spike	P	0 - 31

Reference Method: EPA 8276
Batch ID: P421853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366173	Chlordane	0.985	Spike	P	0 - 25
2366173	Toxaphene	0.770	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P421714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366047	Acesulfame K	1.55	Spike	P	0 - 30
2366047	AMPA	6.57	Spike	P	0 - 30
2366047	Endothall	0.162	Spike	P	0 - 30
2366047	Glufosinate	10.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P421714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366047	Glyphosate	8.88	Spike	P	0 - 30
2366047	Sucralose	2.44	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P421744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366175	2,4-D	26.5	Spike	P	0 - 30
2366175	2,4,5-T	17.2	Spike	P	0 - 30
2366175	Acetaminophen	2.11	Spike	P	0 - 30
2366175	Acetamiprid	20.6	Spike	P	0 - 30
2366175	Afidopyropen	14.3	Spike	P	0 - 30
2366175	Bentazon	11.3	Spike	P	0 - 30
2366175	Benzovindiflupyr	3.60	Spike	P	0 - 30
2366175	Carbamazepine	2.56	Spike	P	0 - 30
2366175	Clothianidin	16.9	Spike	P	0 - 30
2366175	Dinotefuran	7.94	Spike	P	0 - 30
2366175	Diuron	4.05	Spike	P	0 - 30
2366175	Fenuron	11.0	Spike	P	0 - 30
2366175	Fluridone	0.401	Spike	P	0 - 30
2366175	Hydrocodone	15.2	Spike	P	0 - 30
2366175	Ibuprofen	21.2	Spike	P	0 - 30
2366175	Imazapyr	11.9	Spike	P	0 - 30
2366175	Imidacloprid	5.22	Spike	P	0 - 30
2366175	Linuron	2.97	Spike	P	0 - 30
2366175	Mandestrobin	9.28	Spike	P	0 - 30
2366175	MCPP	14.8	Spike	P	0 - 30
2366175	Naproxen	1.64	Spike	P	0 - 30
2366175	Primidone	18.3	Spike	P	0 - 30
2366175	Pyraclostrobin	2.98	Spike	P	0 - 30
2366175	Silvex	11.6	Spike	P	0 - 30
2366175	Thiamethoxam	6.73	Spike	P	0 - 30
2366175	Tolfenpyrad	6.48	Spike	P	0 - 30
2366175	Triclopyr	19.1	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P422006

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366166	Total Alkalinity	0.668	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P422118

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366262	Total Alkalinity	1.13	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P422020

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366166	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P422122

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366262	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P421998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366238	Organic Carbon	0.593	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P422326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366263	Organic Carbon	0.492	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2366257
Field Sample ID: G2SD0028

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	62.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	82.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	62.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	65.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	70.1	P	30 - 101
EPA 8276	PCNB	89.0	P	48 - 121

Lab Sample ID: 2366258
Field Sample ID: G2SD0028

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	52.1	P	20 - 200
EPA 8270E	Simazine-d10	110	P	62 - 142
EPA 8270E	Terbufos-d10	123	P	58 - 132
EPA 8270E	Terphenyl-d14	68.3	P	52 - 137

Lab Sample ID: 2366259
Field Sample ID: G2SD0028

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	118	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.8	P	30 - 160
EPA 8321B	Diuron-d6	67.9	P	30 - 160
EPA 8321B	Endothall-d6	72.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	45.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.7	P	30 - 160
EPA 8321B	Primidone-d5	125	P	30 - 160
EPA 8321B	Sucralose-d6	77.9	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115659

Included Lab Sample IDs: 2366244, 2366245, 2366248

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.5	P/P	95 - 105
Turbidity	98.5	99.0	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A115696

Included Lab Sample IDs: 2366259

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	105	107	P/P	60 - 160
Endothall	96.2	107	P/P	60 - 160
Glufosinate	98.6	95.5	P/P	60 - 160
Glyphosate	100	96.8	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A115702

Included Lab Sample IDs: 2366259

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	99.3	106	P/P	50 - 150
2,4,5-T	101	97.6	P/P	50 - 150
Acetaminophen	109	124	P/P	60 - 160
Acetamiprid	118	114	P/P	50 - 150
Afidopyropen	107	124	P/P	50 - 150
Bentazon	115	117	P/P	50 - 160
Benzovindiflupyr	117	119	P/P	50 - 150
Carbamazepine	118	116	P/P	60 - 150
Clothianidin	126	125	P/P	60 - 150
Dinotefuran	124	140	P/P	50 - 150
Diuron	104	108	P/P	60 - 160
Fenuron	113	109	P/P	60 - 150
Fluridone	109	114	P/P	60 - 160
Hydrocodone	114	118	P/P	60 - 150
Ibuprofen	77.7	98.7	P/P	50 - 160
Imazapyr	107	114	P/P	50 - 150
Imidacloprid	104	108	P/P	60 - 150
Linuron	120	107	P/P	60 - 150
Mandestrobin	106	109	P/P	50 - 150
MCPP	99.3	107	P/P	50 - 150
Naproxen	104	85.2	P/P	50 - 160
Primidone	115	107	P/P	60 - 150
Pyraclostrobin	111	114	P/P	60 - 150
Silvex	93.8	89.1	P/P	50 - 150
Thiamethoxam	113	115	P/P	50 - 150
Tolfenpyrad	116	117	P/P	60 - 150
Triclopyr	98.4	101	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115752

Included Lab Sample IDs: 2366249

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115752

Included Lab Sample IDs: 2366249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A115774

Included Lab Sample IDs: 2366248

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.1	97.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115774

Included Lab Sample IDs: 2366248

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

Reference Method: SM 5310 B-2011

Run ID: A115775

Included Lab Sample IDs: 2366249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.2	98.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115782

Included Lab Sample IDs: 2366246, 2366247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	106	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115783

Included Lab Sample IDs: 2366259

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	86.9	87.9	P/P	60 - 160
Sucralose	80.8	80.9	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115789

Included Lab Sample IDs: 2366249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115790

Included Lab Sample IDs: 2366246, 2366247

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115808

Included Lab Sample IDs: 2366246, 2366247, 2366249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.0	92.4	P/P	90 - 110
Kjeldahl Nitrogen	94.0	95.3	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A115822

Included Lab Sample IDs: 2366244, 2366245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.3	94.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115822

Included Lab Sample IDs: 2366244, 2366245

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115829

Included Lab Sample IDs: 2366246, 2366247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	98.4	P/P	90 - 110
Ammonia-N	98.8	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115837

Included Lab Sample IDs: 2366249

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

Reference Method: EPA 8270E

Run ID: A115845

Included Lab Sample IDs: 2366257

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.9		P	80 - 120
PCB-1260	99.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A115852

Included Lab Sample IDs: 2366260

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	101	99.1	P/P	90 - 110
Arsenic	104	103	P/P	90 - 110
Beryllium	99.3	96.6	P/P	90 - 110
Cadmium	103	102	P/P	90 - 110
Chromium	101	98.7	P/P	90 - 110
Cobalt	102	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A115852

Included Lab Sample IDs: 2366260

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	104	104	P/P	90 - 110
Lead	99.8	98.0	P/P	90 - 110
Manganese	102	99.7	P/P	90 - 110
Molybdenum	102	101	P/P	90 - 110
Nickel	102	105	P/P	90 - 110
Selenium	105	102	P/P	90 - 110
Silver	105	104	P/P	90 - 110
Thallium	103	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115853

Included Lab Sample IDs: 2366257

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	106		P	80 - 120
Alpha-BHC	99.1		P	80 - 120
Alpha-Chlordane	103		P	80 - 120
Beta-BHC	97.2		P	80 - 120
Beta-Cyfluthrin	111		P	80 - 120
Bifenthrin	110		P	80 - 120
Chlorothalonil	121*		F	80 - 120
Cis-Nonachlor	113		P	80 - 120
Cypermethrin	115		P	80 - 120
Dacthal	113		P	80 - 120
DDD-p,p'	111		P	80 - 120
DDE-p,p'	112		P	80 - 120
DDT-p,p'	104		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	119		P	80 - 120
Dichlobenil	106		P	80 - 120
Dicofol	117		P	80 - 120
Dieldrin	113		P	80 - 120
Endosulfan I	108		P	80 - 120
Endosulfan II	112		P	80 - 120
Endosulfan Sulfate	114		P	80 - 120
Endrin	113		P	80 - 120
Endrin Aldehyde	112		P	80 - 120
Endrin Ketone	117		P	80 - 120
Esfenvalerate	112		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	119		P	80 - 120
Gamma-BHC	110		P	80 - 120
Gamma-Chlordane	99.4		P	80 - 120
Heptachlor	109		P	80 - 120
Heptachlor Epoxide	111		P	80 - 120
Hexachlorobenzene	104		P	80 - 120
Kepone	104		P	80 - 120
Lambda-Cyhalothrin	113		P	80 - 120
Methoprene	112		P	80 - 120
Methoxychlor	97.5		P	80 - 120
MGK-264	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115853
Included Lab Sample IDs: 2366257

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mirex	117		P	80 - 120
Oxychlordane	106		P	80 - 120
Permethrin	112		P	80 - 120
Phenothrin	108		P	80 - 120
Piperonyl Butoxide	113		P	80 - 120
Prallethrin	104		P	80 - 120
Tau-Fluvalinate	111		P	80 - 120
Tetramethrin	115		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	106		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A115903
Included Lab Sample IDs: 2366258

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.0		P	80 - 120
Alachlor	97.9		P	80 - 120
Ametryn	99.7		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	94.2		P	80 - 120
Azinphos Methyl	112		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	99.1		P	80 - 120
Butylate	99.6		P	80 - 120
Caffeine	96.4		P	80 - 120
Carbophenothion	116		P	80 - 120
Carfentrazone Ethyl	116		P	80 - 120
Chlorfenapyr	115		P	80 - 120
Chlorpyrifos Ethyl	105		P	80 - 120
Chlorpyrifos Methyl	114		P	80 - 120
Coumaphos	118		P	80 - 120
Cyanazine	96.2		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	117		P	80 - 120
Difenoconazole	108		P	80 - 120
Dimethenamid	99.3		P	80 - 120
Dimethomorph	100		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	95.6		P	80 - 120
Ethion	105		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	96.2		P	80 - 120
Fenamiphos	96.3		P	80 - 120
Fenbuconazole	117		P	80 - 120
Fipronil	118		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A115903
 Included Lab Sample IDs: 2366258

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	113		P	80 - 120
Fludioxonil	107		P	80 - 120
Flumioxazin	108		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	112		P	80 - 120
Fonofos	106		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	111		P	80 - 120
Iprodione	106		P	80 - 120
Loratadine	97.5		P	80 - 120
Malathion	101		P	80 - 120
Metaxyl	104		P	80 - 120
Metolachlor	97.9		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	105		P	80 - 120
Myclobutanil	106		P	80 - 120
Naled	110		P	80 - 120
Napropamide	106		P	80 - 120
Norflurazon	112		P	80 - 120
Oxadiazon	109		P	80 - 120
Oxyfluorfen	103		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	105		P	80 - 120
Pendimethalin	114		P	80 - 120
Phenytoin	108		P	80 - 120
Phorate	100		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	108		P	80 - 120
Prometryn	97.5		P	80 - 120
Pronamide	111		P	80 - 120
Propanil	104		P	80 - 120
Propargite	109		P	80 - 120
Propiconazole	100		P	80 - 120
Pyraflufen Ethyl	99.9		P	80 - 120
Pyridaben	113		P	80 - 120
Pyriproxyfen	109		P	80 - 120
Simazine	91.3		P	80 - 120
Stirophos	112		P	80 - 120
Sulfentrazone	101		P	80 - 120
Tebuconazole	110		P	80 - 120
Terbufos	106		P	80 - 120
Terbutylazine	88.6		P	80 - 120
Thiobencarb	105		P	80 - 120
Triadimefon	99.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115909
Included Lab Sample IDs: 2366258

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.3		P	80 - 120
Avobenzone	96.8		P	80 - 120
Dechlorane Plus	94.6		P	80 - 120
Octinoxate	90.7		P	80 - 120
Oxybenzone	98.2		P	80 - 120
PBDE-47	97.8		P	80 - 120
PBDE-99	100		P	80 - 120
Tri-o-cresyl Phosphate	97.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A115916
Included Lab Sample IDs: 2366260

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.3	94.2	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A115928
Included Lab Sample IDs: 2366257

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	105		P	80 - 120
Toxaphene	113		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A115934
Included Lab Sample IDs: 2366246, 2366247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	92.7	97.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A115943
Included Lab Sample IDs: 2366260

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	105	P/P	90 - 110
Iron	100	101	P/P	90 - 110
Magnesium	100	101	P/P	90 - 110
Strontium	102	101	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Zinc	101	101	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	99.6				17.0	
EPA 200.7 Rev. 4.4	Calcium	104					0.639
	Iron	103	108	103			4.35
	Magnesium	101					0.528
	Strontium	100					1.73
	Tin	100	102	97.2			4.39
	Titanium	99.7	101	100			0.744
	Vanadium	99.9	107	107			0.0501
	Zinc	97.5	105	104			1.14
EPA 200.8 Rev. 5.4	Aluminum	102	98.6	97.7			0.922
	Antimony	104	99.3	100			0.692
	Arsenic	103	117	117			0.668
	Beryllium	93.4	113	108			4.24
	Cadmium	104	95.2	96.0			0.870
	Chromium	102	101	103			1.97
	Cobalt	102	116	118			1.83
	Copper	100	114	116			1.44
	Lead	101	106	107			0.778
	Manganese	103	99.9	101			0.543
	Molybdenum	102	116	118			1.54
	Nickel	101	116	118			1.31
	Selenium	104	107	106			0.725
	Silver	106	94.5	94.8			0.318
	Thallium	106	112	114			1.77
EPA 350.1 Rev. 2.0	Ammonia-N	96.0	96.6	97.8			1.06
	Ammonia-N	96.4	103	102			1.11
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.2	101	101			0.112
	Kjeldahl Nitrogen	104					3.33
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104	108	108			0.464
	NO ₂ NO ₃ -N	104	108	108			0.462
EPA 365.1 Rev. 2.0	Total-P	103	98.6	99.3			0.707
	Total-P	106	106	109			2.66
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.0	68.0	65.6			3.65
	Acetochlor	108	96.3	103			6.83
	Alachlor	97.7	83.6	79.1			5.43
	Aldrin	58.5	51.6	50.0			3.04
	Alpha-BHC	88.2	85.0	80.9			4.85
	Alpha-Chlordane	85.2	80.9	77.7			4.05
	Ametryn	70.1	118	106			11.1
	Atrazine	101					15.4
	Atrazine Desethyl	72.2	28.4	46.1			17.2
	Avobenzone	111	78.4	73.0			7.06
	Azinphos Methyl	139	140	128			9.56
	Azoxystrobin	121	128	137			6.45
	Beta-BHC	109	107	98.0			8.44
	Beta-Cyfluthrin	83.4	74.8	68.5			8.81
	Bifenthrin	59.5	52.4	48.7			7.37
	Bromacil	65.7	80.2	78.6			1.92
	Butylate	63.9	42.4	43.8			3.08
	Caffeine	86.5	94.6	93.1			1.56
	Carbophenothion	91.0	122	123			1.23
	Carfentrazone Ethyl	106	91.4	92.2			0.794

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorfenapyr	71.7	82.6	83.6		1.16
	Chlorothalonil	153	183	166		9.69
	Chlorpyrifos Ethyl	60.7	77.5	74.3		4.20
	Chlorpyrifos Methyl	88.1	82.3	91.2		10.2
	Cis-Nonachlor	75.4	69.1	67.9		1.71
	Coumaphos	33.9	72.0	76.4		5.82
	Cyanazine	71.7	85.8	87.7		2.13
	Cypermethrin	90.6	80.3	70.7		12.8
	Cyprodinil	80.0	67.4	81.7		19.1
	Dacthal	87.6	84.9	80.5		5.28
	DDD-p,p'	77.7	76.9	74.6		3.07
	DDE-p,p'	77.2	71.6	73.6		2.74
	DDT-p,p'	74.2	70.1	70.1		0.0201
	Dechlorane Plus	119	61.5	64.9		5.32
	Delta-BHC	135	127	117		8.58
	Deltamethrin	109	92.2	93.3		1.22
	Demeton	81.3	85.0	83.6		1.69
	Diazinon	93.8	111	101		8.76
	Dichlobenil	92.1	85.7	80.4		6.46
	Dicofol	72.0	70.2	68.8		2.09
	Dieldrin	80.8	72.3	74.8		3.43
	Difenoconazole	62.6	98.4	86.0		13.5
	Dimethenamid	67.8	67.3	78.1		14.9
	Dimethomorph	180	138	172		22.2
	Disulfoton	65.9	88.4	84.9		4.09
	Dithiopyr	80.0	73.5	73.4		0.161
	Endosulfan I	77.8	71.8	71.7		0.125
	Endosulfan II	94.1	84.8	84.6		0.276
	Endosulfan Sulfate	107	103	93.4		9.37
	Endrin	78.6	75.2	75.7		0.619
	Endrin Aldehyde	85.7	77.5	80.3		3.65
	Endrin Ketone	86.0	67.0	64.4		3.83
	EPTC	49.2	33.9	39.3		14.5
	Esfenvalerate	92.8	75.9	78.9		3.86
	Ethalfuralin	74.4	70.2	67.7		3.68
	Ethion	66.7	69.7	97.2		32.9
	Ethoprop	78.8	80.2	82.6		3.04
	Etridiazole	58.1	51.8	48.6		6.46
	Fenamiphos	73.0	86.4	79.8		8.03
	Fenbuconazole	89.5	161	96.3		50.1
	Fenpropathrin	83.7	78.0	69.2		11.9
	Fipronil	76.1	93.8	96.3		2.37
	Fipronil Desulfinyl	78.8	76.1	72.5		3.69
	Fipronil Sulfide	91.8	92.7	102		5.42
	Fipronil Sulfone	58.1	56.8	96.1		25.5
	Fluazifop-P-butyl	66.1	73.2	97.4		28.4
	Fludioxonil	82.6	78.6	95.9		19.7
	Flumioxazin	58.7	96.8	117		18.9
	Flutolanil	62.4	68.6	77.3		11.9
	Fluxapyroxad	43.9	51.7	73.9		35.3
	Fonofos	83.9	81.2	90.2		10.6
	Gamma-BHC	93.5	78.4	81.9		4.37
	Gamma-Chlordane	79.6	81.7	72.4		12.0
	Heptachlor	68.0	59.5	59.7		0.286

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Heptachlor Epoxide	76.2	71.6	73.3			2.35
	Hexachlorobenzene	78.6	76.9	70.3			9.03
	Hexazinone	83.0	80.1	91.0			12.7
	Imazalil	86.0	79.9	83.9			4.88
	Iprodione	76.4	88.2	105			17.6
	Kepone	94.9	93.9	79.0			17.2
	Lambda-Cyhalothrin	78.7	72.1	66.2			8.51
	Loratadine	211	88.9	81.8			8.34
	Malathion	96.7	118	109			6.33
	Metalaxyl	80.3	77.8	79.2			1.80
	Methoprene	61.6	52.5	53.3			1.46
	Methoxychlor	78.0	76.5	69.0			10.2
	Metolachlor	83.5	82.8	86.7			4.40
	Metribuzin	105	96.4	96.1			0.342
	Mevinphos	81.6	74.5	76.0			2.07
	MGK-264	91.4	84.8	86.3			1.77
	Mirex	61.9	56.0	52.2			7.09
	Molinate	72.4	64.0	64.4			0.729
	Myclobutanil	58.4	67.0	86.8			25.7
	Naled	74.2	80.8	82.6			2.23
	Napropamide	63.9	84.1	90.3			7.05
	Norflurazon	63.2	73.6	72.8			1.12
	Octinoxate	94.7	56.7	52.0			8.71
	Oxadiazon	61.8	66.2	71.6			7.89
	Oxybenzone	89.2	60.0	53.8			10.9
	Oxychlordane	66.4	60.4	70.3			15.1
	Oxyfluorfen	72.1	83.7	99.4			17.1
	Parathion Ethyl	86.6	91.9	80.3			13.5
	Parathion Methyl	116	134	109			20.4
	PBDE-47	71.7	58.5	59.5			1.61
	PBDE-99	61.8	51.7	55.2			6.58
	PCB-1016	82.9	78.6	78.8			0.208
	PCB-1260	76.4	63.4	63.5			0.170
	Pendimethalin	79.5	93.1	78.5			17.0
	Permethrin	83.5	72.2	68.1			5.72
	Phenothrin	61.5	57.1	55.9			2.08
	Phenytol	38.3	44.8	63.8			35.0
	Phorate	73.3	66.4	72.0			8.01
	Piperonyl Butoxide	84.9	70.5	72.4			2.68
	Prallethrin	87.7	79.2	83.5			5.26
	Prodimamine	32.1	41.0	36.7			11.0
	Prometon	54.9					27.0
	Prometryn	118	61.8	47.7			25.7
	Pronamide	98.8	103	103			0.215
	Propanil	99.3	76.2	90.3			16.9
	Propargite	32.1	39.2	56.1			35.5
	Propiconazole	124	75.4	66.1			13.1
	Pyraflufen Ethyl	56.5	126	125			0.791
	Pyridaben	50.3	79.0	81.5			3.16
	Pyriproxyfen	38.6	73.1	77.1			5.39
	Simazine	91.9					1.71
	Stirophos	22.5	74.5	79.6			6.66
	Sulfentrazone	45.1	56.0	98.8			26.5
	Tau-Fluvalinate	81.2	70.8	71.7			1.27

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Tebuconazole	12.9	24.3	48.5			66.5
	Terbufos	83.2	97.3	95.7			1.60
	Terbutylazine	94.2	89.0	96.7			8.35
	Tetramethrin	112	96.3	98.4			2.14
	Thiobencarb	80.6	88.1	72.7			19.1
	Trans-Nonachlor	72.8	60.2	68.6			13.1
	Tri-o-cresyl Phosphate	89.4	53.4	53.2			0.387
	Triadimefon	60.4	67.6	76.8			12.7
	Triclosan Methyl	77.3	74.5	74.4			0.212
	Trifluralin	69.2	70.6	66.7			5.80
EPA 8276	Chlordane	140	119	120			0.985
	Toxaphene	130	116	115			0.770
EPA 8321B	2,4-D	78.0	81.1	106			26.5
	2,4,5-T	65.3	66.7	79.3			17.2
	Acesulfame K	90.2	76.5	77.7			1.55
	Acetaminophen	98.6	106	108			2.11
	Acetamiprid	86.4	85.2	105			20.6
	Afidopyropen	70.5	67.8	78.2			14.3
	AMPA	116	85.9	92.7			6.57
	Bentazon	104	103	115			11.3
	Benzovindiflupyr	89.0	102	106			3.60
	Carbamazepine	93.0	110	107			2.56
	Clothianidin	108	118	140			16.9
	Dinotefuran	110	121	131			7.94
	Diuron	84.6	91.2	94.9			4.05
	Endothall	101	193	193			0.162
	Fenuron	110	114	127			11.0
	Fluridone	93.7	113	113			0.401
	Glufosinate	104	81.1	90.0			10.4
	Glyphosate	103	85.5	95.0			8.88
	Hydrocodone	103	114	132			15.2
	Ibuprofen	73.8	75.2	93.0			21.2
	Imazapyr	84.4	102	115			11.9
	Imidacloprid	102	112	118			5.22
	Linuron	98.5	97.8	94.9			2.97
	Mandestrobin	90.3	94.4	104			9.28
	MCPP	84.7	95.6	111			14.8
	Naproxen	56.9	80.3	79.0			1.64
	Primidone	99.1	98.9	119			18.3
	Pyraclostrobin	79.2	95.8	98.8			2.98
	Silvex	62.1	66.8	75.0			11.6
	Sucralose	83.0	92.2	94.6			2.44
	Thiamethoxam	102	118	126			6.73
	Tolfenpyrad	41.6	54.8	51.4			6.48
	Triclopyr	61.4	66.7	80.8			19.1
SM 2320 B-2011	Total Alkalinity	98.0				0.668	
	Total Alkalinity	95.9				1.13	
SM 2540 D-2015	TSS	92.7					
	TSS	93.6					
SM 4500-F- C-2011	Fluoride	101	102	102			0.0
	Fluoride	101	96.6	96.6			0.0
SM 5310 B-2011	Organic Carbon	96.3	97.8	98.6			0.593
	Organic Carbon	94.6	90.4	91.0			0.492

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2366244, 2366245, 2366248
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2366260
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2366260
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2366246, 2366247, 2366249
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2366246, 2366247, 2366249
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2366246, 2366247, 2366249
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2366246, 2366247, 2366249
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2366258
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2366257
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2366258
EPA 8270E	PCBs in water matrices by GC/MS/MS	2366257
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2366257
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2366259
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2366244, 2366245, 2366248
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2366244, 2366245, 2366248
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2366244, 2366245, 2366248
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2366246, 2366247, 2366249

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	11/01/2022			11/01/2022 14:40	Anna M. Plaviak	2366244
	11/01/2022			11/01/2022 14:47	Anna M. Plaviak	2366245
	11/01/2022			11/01/2022 14:49	Anna M. Plaviak	2366248
EPA 200.7 Rev. 4.4	11/01/2022	11/07/2022 11:32	George D Taylor	11/16/2022 00:33	Betina Topolski	2366260
	11/01/2022	11/07/2022 11:32	George D Taylor	11/16/2022 00:46	Betina Topolski	2366260
EPA 200.8 Rev. 5.4	11/01/2022	11/07/2022 11:32	George D Taylor	11/09/2022 16:12	Emily M Philpot	2366260
	11/01/2022	11/07/2022 11:32	George D Taylor	11/09/2022 17:49	Emily M Philpot	2366260
	11/01/2022	11/07/2022 11:32	George D Taylor	11/14/2022 17:13	Emily M Philpot	2366260
	11/01/2022			11/07/2022 13:47	Ping Hua	2366249
EPA 350.1 Rev. 2.0	11/01/2022			11/08/2022 12:04	Ping Hua	2366247
	11/01/2022			11/08/2022 13:11	Ping Hua	2366246
	11/01/2022	11/04/2022 10:30	Simonne.V. Calhoun	11/08/2022 13:20	Samantha L Bates	2366249
EPA 351.2 Rev. 2.0	11/01/2022	11/04/2022 10:30	Simonne.V. Calhoun	11/08/2022 14:34	Samantha L Bates	2366246
	11/01/2022	11/04/2022 10:30	Simonne.V. Calhoun	11/08/2022 14:35	Samantha L Bates	2366247
	11/01/2022			11/04/2022 11:30	Beverly Y. Sanders	2366249
EPA 353.2 Rev. 2.0	11/01/2022			11/07/2022 11:19	Beverly Y. Sanders	2366246
	11/01/2022			11/07/2022 11:20	Beverly Y. Sanders	2366247
	11/01/2022	11/04/2022 13:44	Adam P Silver	11/07/2022 14:37	James L Waggeberby	2366246
EPA 365.1 Rev. 2.0	11/01/2022	11/04/2022 13:44	Adam P Silver	11/07/2022 14:38	James L Waggeberby	2366247
	11/01/2022	11/08/2022 13:18	Adam P Silver	11/09/2022 14:43	James L Waggeberby	2366249
EPA 8270E	11/01/2022	11/04/2022 08:00	Fe-Val Siddell	11/08/2022 18:15	Arthur Maknenko	2366258
	11/01/2022	11/04/2022 08:00	Fe-Val Siddell	11/11/2022 18:14	Michael Poppell	2366258
	11/01/2022	11/04/2022 08:30	Rasheda Ghaffari	11/08/2022 20:56	Vandana T. Nagar	2366257
	11/01/2022	11/04/2022 08:30	Rasheda Ghaffari	11/08/2022 21:35	Julie Wi	2366257
	11/01/2022	11/04/2022 08:30	Rasheda Ghaffari	11/08/2022 08:29	Arthur Maknenko	2366257
EPA 8276	11/01/2022	11/02/2022 09:30	June Rhew	11/02/2022 19:08	Juyoung Kim	2366259
EPA 8321B	11/01/2022	11/02/2022 12:00	Umesh Chiluwal	11/02/2022 15:22	Umesh Chiluwal	2366259
	11/01/2022	11/02/2022 12:00	Umesh Chiluwal	11/02/2022 18:24	Umesh Chiluwal	2366259
	11/01/2022	11/02/2022 12:00	Umesh Chiluwal	11/03/2022 07:25	Umesh Chiluwal	2366259
	11/01/2022			11/05/2022 18:05	Dale L. Simmons	2366248
SM 2320 B-2011	11/01/2022			11/08/2022 21:44	Dale L. Simmons	2366244
	11/01/2022			11/08/2022 21:58	Dale L. Simmons	2366245
	11/01/2022			11/02/2022 15:18	Yijie Li	2366244, 2366245, 2366248
SM 2540 D-2015	11/01/2022			11/05/2022 18:05	Dale L. Simmons	2366248
SM 4500-F- C-2011	11/01/2022			11/08/2022 19:40	Dale L. Simmons	2366244
	11/01/2022			11/08/2022 19:45	Dale L. Simmons	2366245
	11/01/2022			11/05/2022 04:04	Khloe J Berg	2366249
SM 5310 B-2011	11/01/2022			11/15/2022 08:24	Khloe J Berg	2366246
	11/01/2022			11/15/2022 08:43	Khloe J Berg	2366247