

Chemical Analysis Report

SE-DIST-2022-02-25-01

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

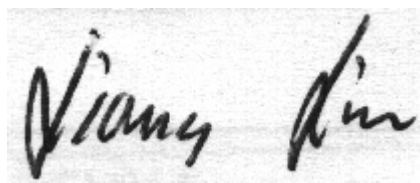
Event Description: **Stuart/Stuart Deploy**
Request ID: **RQ-2022-02-21-69**
Customer: **SE-DIST**
Project ID: **SMP**

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

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

Certified by: Liang Lin, Environmental Administrator

Date Certified: 22-MAR-2022 14:55

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

NON-CONFORMANCE REPORT INCLUDED

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: Danforth Creek @ Martin Hwy

Collection Date/Time: 02/23/2022 09:30

Field ID: G2SE0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308466	EPA 300.0 Rev. 2.1	Chloride	58		mg Cl/L	P410851	
		Sulfate	39	Y	mg SO4/L	P410855	
	SM 2320 B-2011	Total Alkalinity	164	Y	mg CaCO3/L	P410661	
	SM 2540 C-2011	TDS	373	YQ	mg/L	P410754	
	SM 2540 D-2011	TSS	5	IYQ	mg/L	P410897	
	SM 4500 F-C-2011	Fluoride	0.084	I	mg F/L	P410664	
2308467	EPA 350.1 Rev. 2.0	Ammonia-N	0.21	Y	mg N/L	P410632	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0	Y	mg N/L	P410428	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.064	Y	mg N/L	P410914	
	EPA 365.1 Rev. 2.0	Total-P	0.11	Y	mg P/L	P410933	
	SM 5310 B-2011	Organic Carbon	14	Y	mg C/L	P410541	
2308507	EPA 8321B	2,4-D	0.0036	IY	ug/L	P410466	
		Acesulfame K	0.18	IY	ug/L	P410426	
		2,4,5-T	0.0040	UY	ug/L	P410466	
		AMPA	0.17	IY	ug/L	P410426	
		Acetaminophen	0.0080	UY	ug/L	P410466	
		Acetamiprid	0.0020	UY	ug/L	P410466	
		Endothall	0.25	UY	ug/L	P410426	
		Glufosinate	0.10	UY	ug/L	P410426	
		Glyphosate	0.41	Y	ug/L	P410426	
		Afidopyropen	0.0020	UY	ug/L	P410466	
		Bentazon	0.036	Y	ug/L	P410466	
		Sucralose	0.38	Y	ug/L	P410426	
		Benzovindiflupyr	0.0020	UY	ug/L	P410466	
		Carbamazepine	8.0E-04	UY	ug/L	P410466	
		Clothianidin	0.0020	UY	ug/L	P410466	
		Dinotefuran	0.0020	UY	ug/L	P410466	MS
		Diuron	0.0020	UY	ug/L	P410466	
		Fenuron	0.025	IY	ug/L	P410466	
		Fluridone	0.0052	Y	ug/L	P410466	
		Imazapyr	0.22	Y	ug/L	P410466	
		Hydrocodone	0.0020	UY	ug/L	P410466	
		Ibuprofen	0.020	UY	ug/L	P410466	
		Imidacloprid	0.0020	UY	ug/L	P410466	MS
		Linuron	0.0040	UY	ug/L	P410466	
		Mandestrobin	0.0020	UY	ug/L	P410466	
		MCP	0.0040	UY	ug/L	P410466	
		Naproxen	0.0080	UY	ug/L	P410466	
		Primidone	0.0040	UY	ug/L	P410466	
		Pyraclostrobin	0.0020	UY	ug/L	P410466	
		Silvex	0.0040	UY	ug/L	P410466	
		Thiamethoxam	0.0022	IY	ug/L	P410466	
		Tolfenpyrad	0.0020	UY	ug/L	P410466	
		Triclopyr	0.0040	UY	ug/L	P410466	

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
EPA 300.0 Rev. 2.1: Sulfate: Sample was left out at room temperature overnight, should be stored below 6 degC.							
SM 2320 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.							
SM 2540 C-2011: The sample was analyzed out of holding time because of analytical difficulties. Sample was left out at room temperature overnight, should be stored below 6 degC.							
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The sample was analyzed out of holding time because of analytical difficulties. Sample was left out at room temperature overnight, should be stored below 6 degC.							
EPA 350.1 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.							
EPA 351.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.							
EPA 353.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.							
EPA 365.1 Rev. 2.0: Total-P: Sample was left out at room temperature overnight, should be stored below 6 degC.							
SM 5310 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.							
EPA 8321B: Y - Sample preservation was not maintained; see NCR report.							

Sample Location: Bessey Creek @ Murphy

Collection Date/Time: 02/23/2022 10:00

Field ID: G2SE0017

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308464	SM 2320 B-2011	Total Alkalinity	237	Y	mg CaCO3/L	P410840	
	SM 2540 D-2011	TSS	3	UAYQ	mg/L	P410902	
	SM 4500 F-C-2011	Fluoride	0.27		mg F/L	P410845	
2308465	EPA 350.1 Rev. 2.0	Ammonia-N	0.074	Y	mg N/L	P410626	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53	Y	mg N/L	P410429	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10	Y	mg N/L	P410911	
	EPA 365.1 Rev. 2.0	Total-P	0.097	Y	mg P/L	P410932	
	SM 5310 B-2011	Organic Carbon	9.5	Y	mg C/L	P410861	
2308513	EPA 200.7 Rev. 4.4	Calcium	154		mg/L	P410650	
		Iron	380		ug/L	P410650	
		Magnesium	220		mg/L	P410650	
		Strontium	1.96E+03		ug/L	P410650	
	EPA 200.8 Rev. 5.4	Tin	60	U	ug/L	P410650	
		Vanadium	6.0	U	ug/L	P410650	
		Zinc	15	U	ug/L	P410650	
		Aluminum	20	U	ug/L	P410650	
		Antimony	0.20	U	ug/L	P410650	
		Arsenic	1.73		ug/L	P410650	
		Beryllium	0.040	U	ug/L	P410650	
		Cadmium	0.080	U	ug/L	P410650	
		Chromium	1.6	U	ug/L	P410650	
		Cobalt	0.080	U	ug/L	P410650	
		Copper	1.6	U	ug/L	P410650	
		Lead	0.80	U	ug/L	P410650	
		Manganese	18.4		ug/L	P410650	
		Molybdenum	2.7		ug/L	P410650	
		Nickel	2.0	U	ug/L	P410650	
		Selenium	0.80	U	ug/L	P410650	
		Silver	0.040	U	ug/L	P410650	

Ref. Method and Comment:

SM 2320 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The sample was analyzed out of holding time because of analytical difficulties. Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 350.1 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 351.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 353.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 365.1 Rev. 2.0: Total-P: Sample was left out at room temperature overnight, should be stored below 6 degC.

SM 5310 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.

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. Precision data and spike recoveries for tin are unavailable because sample matrix interference necessitated a high dilution.

Sample Location: Manatee Pocket North

Collection Date/Time: 02/23/2022 10:45

Field ID: G2SE0063

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308470	SM 2320 B-2011	Total Alkalinity	128	Y	mg CaCO3/L	P410711	
	SM 2540 D-2011	TSS	7	IYQ	mg/L	P410901	
	SM 4500 F-C-2011	Fluoride	1.1		mg F/L	P410715	
2308472	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	Y	mg N/L	P410626	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41	Y	mg N/L	P410429	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	UY	mg N/L	P410912	
	EPA 365.1 Rev. 2.0	Total-P	0.049	Y	mg P/L	P411011	
	SM 5310 B-2011	Organic Carbon	3.7	Y	mg C/L	P410861	
	EPA 200.7 Rev. 4.4	Calcium	391		mg/L	P410650	
		Iron	120	U	ug/L	P410650	
		Magnesium	1.18E+03		mg/L	P410650	
		Strontium	7.19E+03		ug/L	P410650	
		Tin	150	U	ug/L	P410650	
		Titanium	4.2	I	ug/L	P410650	
		Vanadium	8.0	U	ug/L	P410650	
		Zinc	20	U	ug/L	P410650	
		Aluminum	73	I	ug/L	P410650	
		Antimony	0.20	U	ug/L	P410650	
		Arsenic	2.26		ug/L	P410650	
		Beryllium	0.040	U	ug/L	P410650	
		Cadmium	0.080	U	ug/L	P410650	
		Chromium	1.6	U	ug/L	P410650	
		Cobalt	0.080	U	ug/L	P410650	
		Copper	5.4		ug/L	P410650	
		Lead	0.80	U	ug/L	P410650	
		Manganese	4.3		ug/L	P410650	
		Molybdenum	11.4		ug/L	P410650	
		Nickel	2.0	U	ug/L	P410650	
		Selenium	0.80	U	ug/L	P410650	
		Silver	0.040	U	ug/L	P410650	
		Thallium	0.40	U	ug/L	P410650	

Ref. Method and Comment:

SM 2320 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The sample was analyzed out of holding time because of analytical difficulties. Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 350.1 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 351.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 353.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 365.1 Rev. 2.0: Total-P: Sample was left out at room temperature overnight, should be stored below 6 degC.

SM 5310 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.

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. Precision data and spike recoveries for tin are unavailable because sample matrix interference necessitated a high dilution.

EPA 200.8 Rev. 5.4: The copper result was confirmed in the undigested sample on 03/08/2022.

Sample Location: Manatee Pocket North

Collection Date/Time: 02/23/2022 10:45

Field ID: G2SE0063

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308512	EPA 8270E	Oxybenzone**	9.6	UY	ng/L	P410273	
		Acetochlor	0.24	UY	ng/L	P410273	
		Octinoxate**	19	UY	ng/L	P410273	
		Alachlor	0.51	IY	ng/L	P410273	
		Avobenzone**	96	UY	ng/L	P410273	
		Ametryn	1.1	IY	ng/L	P410273	
		Atrazine	17	Y	ng/L	P410273	
		Atrazine Desethyl	1.7	IY	ng/L	P410273	
		Azinphos Methyl	1.9	UY	ng/L	P410273	
		Azoxystrobin**	1.4	IY	ng/L	P410273	
		Bromacil	0.48	UY	ng/L	P410273	
		Butylate	0.39	UY	ng/L	P410273	
		Caffeine**	120	Y	ng/L	P410273	
		Carbophenothion	2.4	UY	ng/L	P410273	
		Carfentrazone Ethyl**	0.096	UY	ng/L	P410273	
		Chlorfenapyr**	0.17	UY	ng/L	P410273	
		Chlorpyrifos Ethyl	0.24	UY	ng/L	P410273	
		Chlorpyrifos Methyl	0.048	UY	ng/L	P410273	
		Coumaphos**	0.48	UY	ng/L	P410273	
		Cyanazine	3.1	UY	ng/L	P410273	
		Cyprodinil**	0.096	UY	ng/L	P410273	
		Demeton	1.4	UY	ng/L	P410273	
		Diazinon	0.15	IY	ng/L	P410273	
		Difenoconazole**	0.58	UY	ng/L	P410273	
		Dimethenamid**	0.096	UY	ng/L	P410273	
		Dimethomorph**	0.17	UY	ng/L	P410273	MS
		Disulfoton	0.48	UY	ng/L	P410273	
		Dithiopyr**	0.22	IY	ng/L	P410273	
		EPTC	1.2	UY	ng/L	P410273	
		Ethion	0.14	UY	ng/L	P410273	
		Ethoprop	0.096	UY	ng/L	P410273	
		Etridiazole**	0.14	UY	ng/L	P410273	
		Fenamiphos	0.48	UY	ng/L	P410273	
		Fenbuconazole**	0.28	IY	ng/L	P410273	
		Fipronil	0.24	UY	ng/L	P410273	
		Fipronil Desulfinyl**	0.12	UY	ng/L	P410273	
		Fipronil Sulfide	0.14	UY	ng/L	P410273	
		Fipronil Sulfone	0.25	IY	ng/L	P410273	
		Fluazifop-P-butyl**	0.096	UY	ng/L	P410273	
		Fludioxonil**	0.12	UY	ng/L	P410273	
		Flumioxazin**	1.7	UY	ng/L	P410273	
		Flutolanil**	0.19	IY	ng/L	P410273	
		Fluxapyroxad**	0.096	UY	ng/L	P410273	
		Fonofos	0.19	UY	ng/L	P410273	

Field ID: G2SE0063

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308512	EPA 8270E	Hexazinone	4.8	JY	ng/L	P410273	
		Imazalil**	0.72	UY	ng/L	P410273	
		Iprodione**	0.58	UY	ng/L	P410273	
		Loratadine**	0.096	UY	ng/L	P410273	
		Malathion	0.34	UY	ng/L	P410273	
		Metalaxyl	0.72	UY	ng/L	P410273	
		Metolachlor	0.84	IY	ng/L	P410273	
		Metribuzin	2.4	UY	ng/L	P410273	
		Mevinphos	1.0	UY	ng/L	P410273	
		Molinate	0.29	UY	ng/L	P410273	
		Myclobutanil**	0.28	IY	ng/L	P410273	
		Naled**	1.4	UY	ng/L	P410273	
		Napropamide**	0.39	UY	ng/L	P410273	
		Norflurazon	1.6	IY	ng/L	P410273	
		Oxadiazon	2.4	Y	ng/L	P410273	
		Oxyfluorfen**	0.14	UY	ng/L	P410273	
		Parathion Ethyl	0.24	UY	ng/L	P410273	
		Parathion Methyl	0.53	UY	ng/L	P410273	
		Pendimethalin	0.96	UY	ng/L	P410273	
		Phenytoin**	3.4	UY	ng/L	P410273	MS, RPD
		Phorate	0.51	UY	ng/L	P410273	
		Prodiamine**	0.29	UY	ng/L	P410273	
		Prometon	0.87	UY	ng/L	P410273	
		Prometryn	0.19	UY	ng/L	P410273	
		Pronamide**	0.14	UY	ng/L	P410273	
		Propanil**	0.12	UY	ng/L	P410273	
		Propargite**	1.4	UY	ng/L	P410273	
		Propiconazole**	0.78	IY	ng/L	P410273	
		Pyraflufen Ethyl**	0.24	UY	ng/L	P410273	
		Pyridaben**	0.43	UY	ng/L	P410273	
		Pyriproxyfen**	0.12	UY	ng/L	P410273	
		Simazine	0.48	UY	ng/L	P410273	
		Stirophos**	0.12	UY	ng/L	P410273	
		Sulfentrazone**	13	Y	ng/L	P410273	
		Tebuconazole**	0.48	UY	ng/L	P410273	
		Terbufos	0.096	UY	ng/L	P410273	
		Terbuthylazine	0.41	UY	ng/L	P410273	
		Thiobencarb**	0.58	UY	ng/L	P410273	
		Triadimefon**	0.24	UY	ng/L	P410273	

Ref. Method and Comment:

EPA 8270E: Y - Due to improper preservation; see NCR report.

EPA 8270E: MS accuracy for Sulfentrazone not assessed due to high content of this parameter in the sample spiked. Estimated value for Hexazinone due to internal standard recovery exceeding control limits. Y - Due to improper preservation; see NCR report.

Sample Location: Willoughby Creek

Collection Date/Time: 02/23/2022 11:15

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308468	SM 2320 B-2011	Total Alkalinity	130	Y	mg CaCO3/L	P410711	
	SM 2540 D-2011	TSS	10	YQ	mg/L	P410901	
	SM 4500 F-C-2011	Fluoride	1.1		mg F/L	P410715	
2308469	EPA 350.1 Rev. 2.0	Ammonia-N	0.090	Y	mg N/L	P410626	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.54	Y	mg N/L	P410429	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.026	Y	mg N/L	P410912	
	EPA 365.1 Rev. 2.0	Total-P	0.064	Y	mg P/L	P410932	
	SM 5310 B-2011	Organic Carbon	6.4	Y	mg C/L	P410861	
2308508	EPA 8321B	Aldicarb	0.020	U	ug/L	P410466	
		Aldicarb Sulfone	0.0020	U	ug/L	P410466	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P410466	
		Carbaryl	0.0020	U	ug/L	P410466	
		Carbofuran	0.0020	U	ug/L	P410466	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P410466	
		Methiocarb	0.0020	U	ug/L	P410466	
		Methomyl	0.0020	U	ug/L	P410466	
		Oxamyl	0.0020	U	ug/L	P410466	
		Propoxur	0.0020	U	ug/L	P410466	
2308509		Acesulfame K	0.10	U	ug/L	P410426	
		2,4-D	0.0063	I	ug/L	P410466	
		AMPA	10	U	ug/L	P410426	
		2,4,5-T	0.0040	U	ug/L	P410466	
		Acetaminophen	0.0080	U	ug/L	P410466	
		Endothall	0.25	U	ug/L	P410426	
		Acetamiprid	0.0020	U	ug/L	P410466	
		Glufosinate	10	U	ug/L	P410426	
		Glyphosate	10	U	ug/L	P410426	
		Afidopyropen	0.0020	U	ug/L	P410466	
		Sucralose	0.99		ug/L	P410426	
		Bentazon	0.014		ug/L	P410466	
		Benzovindiflupyr	0.0020	U	ug/L	P410466	
		Carbamazepine	8.7E-04	I	ug/L	P410466	
		Clothianidin	0.0020	U	ug/L	P410466	
		Dinotefuran	0.0020	U	ug/L	P410466	MS
		Diuron	0.0020	U	ug/L	P410466	
		Fenuron	0.016	U	ug/L	P410466	
		Fluridone	0.0014	I	ug/L	P410466	
		Imazapyr	0.017		ug/L	P410466	
		Hydrocodone	0.0020	U	ug/L	P410466	
		Ibuprofen	0.020	U	ug/L	P410466	
		Imidacloprid	0.0022	I	ug/L	P410466	MS
		Linuron	0.0040	U	ug/L	P410466	
		Mandestrobin	0.0020	U	ug/L	P410466	
		MCP	0.0040	U	ug/L	P410466	

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308509	EPA 8321B	Naproxen	0.0080	U	ug/L	P410466	
		Primidone	0.0040	U	ug/L	P410466	
		Pyraclostrobin	0.0020	U	ug/L	P410466	
		Silvex	0.0040	U	ug/L	P410466	
		Thiamethoxam	0.0020	U	ug/L	P410466	
		Tolfenpyrad	0.0020	U	ug/L	P410466	
		Triclopyr	0.0040	U	ug/L	P410466	
2308510	EPA 8270E	Aldrin	0.70	UY	ng/L	P410328	
		Alpha-BHC	0.11	UY	ng/L	P410328	
		Alpha-Chlordane	0.21	UY	ng/L	P410328	
		PCB-1016	2.1	UY	ng/L	P410328	
		Beta-BHC	0.11	UY	ng/L	P410328	
		PCB-1221	2.1	UY	ng/L	P410328	
		Beta-Cyfluthrin**	1.3	UY	ng/L	P410328	
		PCB-1232	2.1	UY	ng/L	P410328	
		Bifenthrin**	0.54	UY	ng/L	P410328	
		PCB-1242	2.1	UY	ng/L	P410328	
		PCB-1248	2.1	UY	ng/L	P410328	
		Chlorothalonil	1.3	UY	ng/L	P410328	
		PCB-1254	2.1	UY	ng/L	P410328	
		Cis-Nonachlor**	0.21	UY	ng/L	P410328	
		PCB-1260	2.1	UY	ng/L	P410328	
		Cypermethrin	1.6	UY	ng/L	P410328	
		Dacthal**	0.16	UY	ng/L	P410328	
		DDD-p,p'	0.27	UY	ng/L	P410328	
		DDE-p,p'	0.21	UY	ng/L	P410328	
		DDT-p,p'	0.27	UY	ng/L	P410328	
		Delta-BHC	0.80	IY	ng/L	P410328	
		Deltamethrin**	1.3	UY	ng/L	P410328	
		Dichlobenil**	0.27	UY	ng/L	P410328	
		Dicofol	1.3	UY	ng/L	P410328	
		Dieldrin	0.43	UY	ng/L	P410328	
		Endosulfan I	0.43	UY	ng/L	P410328	
		Endosulfan II	0.43	UY	ng/L	P410328	
		Endosulfan Sulfate	0.32	UY	ng/L	P410328	
		Endrin	0.43	UYQ	ng/L	P411150	
		Endrin Aldehyde	0.80	UY	ng/L	P410328	
		Endrin Ketone	0.43	UYJ	ng/L	P410328	LCS, MS
		Esfenvalerate**	0.80	UY	ng/L	P410328	
		Ethalfuralin**	0.16	UY	ng/L	P410328	
		Fenpropathrin**	0.27	UY	ng/L	P410328	
		Gamma-BHC	0.13	UY	ng/L	P410328	
		Gamma-Chlordane	0.21	UY	ng/L	P410328	
		Heptachlor	0.21	UY	ng/L	P410328	
		Heptachlor Epoxide	0.27	UY	ng/L	P410328	

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308510	EPA 8270E	Hexachlorobenzene	1.1	UY	ng/L	P410328	
		Kepone**	5.4	UYJ	ng/L	P410328	CCV
		Lambda-Cyhalothrin**	0.80	UY	ng/L	P410328	
		Methoprene**	0.80	UYQ	ng/L	P411150	
		Methoxychlor	0.32	UY	ng/L	P410328	
		MGK-264**	0.21	UY	ng/L	P410328	
		Mirex	0.75	UY	ng/L	P410328	
		Oxychlordane**	0.32	UY	ng/L	P410328	
		Permethrin	1.7	UY	ng/L	P410328	
		Phenothrin**	0.97	UY	ng/L	P410328	
		Piperonyl Butoxide**	0.35	IYQ	ng/L	P411150	
		Prallethrin**	2.1	UY	ng/L	P410328	
		Tau-Fluvalinate**	0.27	UY	ng/L	P410328	
		Tetramethrin**	0.80	UY	ng/L	P410328	
		Trans-Nonachlor**	0.21	UY	ng/L	P410328	
		Triclosan Methyl**	0.16	UY	ng/L	P410328	
		Trifluralin	0.21	UY	ng/L	P410328	
	EPA 8276	Chlordane	2.7	UY	ng/L	P410328	RPD
		Toxaphene	16	UY	ng/L	P410328	RPD
2308511	EPA 8270E	Oxybenzone**	9.4	UYJ	ng/L	P410273	SUR
		Acetochlor	0.24	UY	ng/L	P410273	
		Octinoxate**	19	UYJ	ng/L	P410273	SUR
		Alachlor	0.24	UY	ng/L	P410273	
		Avobenzone**	94	UYJ	ng/L	P410273	SUR
		Ametryn	1.6	IY	ng/L	P410273	
		Atrazine	15	Y	ng/L	P410273	
		Atrazine Desethyl	1.7	IY	ng/L	P410273	
		Azinphos Methyl	1.9	UY	ng/L	P410273	
		Azoxystrobin**	0.47	UY	ng/L	P410273	
		Bromacil	0.65	IY	ng/L	P410273	
		Butylate	0.38	UY	ng/L	P410273	
		Caffeine**	23	IY	ng/L	P410273	
		Carbophenothion	2.4	UY	ng/L	P410273	
		Carfentrazone Ethyl**	0.094	UY	ng/L	P410273	
		Chlorfenapyr**	0.16	UY	ng/L	P410273	
		Chlorpyrifos Ethyl	0.24	UY	ng/L	P410273	
		Chlorpyrifos Methyl	0.047	UY	ng/L	P410273	
		Coumaphos**	0.47	UY	ng/L	P410273	
		Cyanazine	3.1	UY	ng/L	P410273	
		Cyprodinil**	0.094	UY	ng/L	P410273	
		Demeton	1.4	UY	ng/L	P410273	
		Diazinon	0.12	UY	ng/L	P410273	
		Difenoconazole**	0.56	UY	ng/L	P410273	
		Dimethenamid**	0.094	UY	ng/L	P410273	
		Dimethomorph**	0.16	UY	ng/L	P410273	MS

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308511	EPA 8270E	Disulfoton	0.47	UY	ng/L	P410273	MS, RPD
		Dithiopyr**	0.16	UY	ng/L	P410273	
		EPTC	1.2	UY	ng/L	P410273	
		Ethion	0.14	UY	ng/L	P410273	
		Ethoprop	0.094	UY	ng/L	P410273	
		Etridiazole**	0.14	UY	ng/L	P410273	
		Fenamiphos	0.47	UY	ng/L	P410273	
		Fenbuconazole**	0.12	UY	ng/L	P410273	
		Fipronil	0.24	UY	ng/L	P410273	
		Fipronil Desulfinyl**	0.12	UY	ng/L	P410273	
		Fipronil Sulfide	0.14	UY	ng/L	P410273	
		Fipronil Sulfone	0.14	UY	ng/L	P410273	
		Fluazifop-P-butyl**	0.094	UY	ng/L	P410273	
		Fludioxonil**	0.12	UY	ng/L	P410273	
		Flumioxazin**	1.6	UY	ng/L	P410273	
		Flutolanil**	0.12	IY	ng/L	P410273	
		Fluxapyroxad**	0.094	UY	ng/L	P410273	
		Fonofos	0.19	UY	ng/L	P410273	
		Hexazinone	5.2	Y	ng/L	P410273	
		Imazalil**	0.71	UY	ng/L	P410273	
		Iprodione**	0.56	UY	ng/L	P410273	
		Loratadine**	0.094	UY	ng/L	P410273	
		Malathion	0.33	UY	ng/L	P410273	
		Metalaxyl	0.71	UY	ng/L	P410273	
		Metolachlor	0.68	IY	ng/L	P410273	
		Metribuzin	2.4	UY	ng/L	P410273	
		Mevinphos	0.99	UY	ng/L	P410273	
		Molinate	0.28	UY	ng/L	P410273	
		Myclobutanil**	0.24	UY	ng/L	P410273	
		Naled**	1.4	UY	ng/L	P410273	
		Napropamide**	0.38	UY	ng/L	P410273	
		Norflurazon	2.4	Y	ng/L	P410273	
		Oxadiazon	1.6	Y	ng/L	P410273	
		Oxyfluorfen**	0.14	UY	ng/L	P410273	
		Parathion Ethyl	0.24	UY	ng/L	P410273	
		Parathion Methyl	0.52	UY	ng/L	P410273	
		Pendimethalin	0.94	UY	ng/L	P410273	
		Phenytol**	3.3	UY	ng/L	P410273	
		Phorate	0.49	UY	ng/L	P410273	
		Prodiamine**	0.28	UY	ng/L	P410273	
		Prometon	0.85	UY	ng/L	P410273	
		Prometryn	0.19	UY	ng/L	P410273	
		Pronamide**	0.14	UY	ng/L	P410273	
		Propanil**	0.12	UY	ng/L	P410273	
		Propargite**	1.4	UY	ng/L	P410273	

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308511	EPA 8270E	Propiconazole**	0.89	IY	ng/L	P410273	
		Pyraflufen Ethyl**	0.24	UY	ng/L	P410273	
		Pyridaben**	0.42	UY	ng/L	P410273	
		Pyriproxyfen**	0.12	UY	ng/L	P410273	
		Simazine	0.47	UY	ng/L	P410273	
		Stiropfos**	0.12	UY	ng/L	P410273	
		Sulfentrazone**	1.9	Y	ng/L	P410273	
		Tebuconazole**	0.47	UY	ng/L	P410273	
		Terbufos	0.094	UY	ng/L	P410273	
		Terbutylazine	0.40	UY	ng/L	P410273	
		Thiobencarb**	0.56	UY	ng/L	P410273	
		Triadimefon**	0.24	UY	ng/L	P410273	
2308514	EPA 200.7 Rev. 4.4	Calcium	330		mg/L	P410650	
		Iron	120	U	ug/L	P410650	
		Magnesium	892		mg/L	P410650	
		Strontium	5.79E+03		ug/L	P410650	
		Tin	150	U	ug/L	P410650	
		Vanadium	8.0	U	ug/L	P410650	
		Zinc	20	U	ug/L	P410650	
	EPA 200.8 Rev. 5.4	Aluminum	98		ug/L	P410650	
		Antimony	0.20	U	ug/L	P410650	
		Arsenic	2.04		ug/L	P410650	
		Beryllium	0.040	U	ug/L	P410650	
		Cadmium	0.080	U	ug/L	P410650	
		Chromium	1.6	U	ug/L	P410650	
		Cobalt	0.097	I	ug/L	P410650	
		Copper	1.9	I	ug/L	P410650	
		Lead	0.80	U	ug/L	P410650	
		Manganese	6.6		ug/L	P410650	
		Molybdenum	8.3		ug/L	P410650	
		Nickel	2.0	U	ug/L	P410650	
		Selenium	0.80	U	ug/L	P410650	
		Silver	0.040	U	ug/L	P410650	

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
-----------	-------------	-----------	--------	------	-------	----------	----------

Ref. Method and Comment:

SM 2320 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The sample was analyzed out of holding time because of analytical difficulties. Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 350.1 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 351.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 353.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 365.1 Rev. 2.0: Total-P: Sample was left out at room temperature overnight, should be stored below 6 degC.

SM 5310 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.

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

EPA 8270E: Sample expired for preparation for some analytes due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of

QC Codes. Y - Due to improper preservation; see NCR report.

EPA 8270E: Y - Due to improper preservation; see NCR report.

EPA 8276: Y - Due to improper preservation; see NCR report.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes. Y - Due to improper preservation; see NCR report.

EPA 82702: MS accuracy for Sulfentrazone not assessed due to high content of this parameter in the sample spiked. Y - Due to improper preservation; see NCR report.

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. Precision data and spike recoveries for tin are unavailable because sample matrix interference necessitated a high dilution.

Sample Location: Krueger Creek Near Commissioner's Park

Collection Date/Time: 02/23/2022 12:00

Field ID: G2SE0069

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308471	SM 2320 B-2011	Total Alkalinity	131	Y	mg CaCO3/L	P410712	
	SM 2540 D-2011	TSS	6	IYQ	mg/L	P410901	
	SM 4500 F-C-2011	Fluoride	0.95		mg F/L	P410716	
2308473	EPA 350.1 Rev. 2.0	Ammonia-N	0.032	Y	mg N/L	P410630	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.47	Y	mg N/L	P410668	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.030	Y	mg N/L	P410912	
	EPA 365.1 Rev. 2.0	Total-P	0.084	Y	mg P/L	P411011	
	SM 5310 B-2011	Organic Carbon	5.3	Y	mg C/L	P410861	
2308516	EPA 200.7 Rev. 4.4	Calcium	318		mg/L	P410650	
		Iron	150	I	ug/L	P410650	
		Magnesium	941		mg/L	P410650	
		Strontium	6.02E+03		ug/L	P410650	
		Tin	150	U	ug/L	P410650	
		Titanium	4.6	I	ug/L	P410650	
		Vanadium	6.0	U	ug/L	P410650	
		Zinc	15	U	ug/L	P410650	
		Aluminum	192		ug/L	P410650	
		Antimony	0.20	U	ug/L	P410650	
	EPA 200.8 Rev. 5.4	Arsenic	2.36		ug/L	P410650	
		Beryllium	0.040	U	ug/L	P410650	
		Cadmium	0.080	U	ug/L	P410650	
		Chromium	1.6	U	ug/L	P410650	
		Cobalt	0.11	I	ug/L	P410650	
		Copper	2.9	I	ug/L	P410650	
		Lead	0.80	U	ug/L	P410650	
		Manganese	11.5		ug/L	P410650	
		Molybdenum	9.4		ug/L	P410650	
		Nickel	2.0	U	ug/L	P410650	
		Selenium	0.80	U	ug/L	P410650	
		Silver	0.040	U	ug/L	P410650	
		Thallium	0.40	U	ug/L	P410650	

Ref. Method and Comment:

SM 2320 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The sample was analyzed out of holding time because of analytical difficulties. Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 350.1 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 351.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 353.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored below 6 degC.

EPA 365.1 Rev. 2.0: Total-P: Sample was left out at room temperature overnight, should be stored below 6 degC.

SM 5310 B-2011: Sample was left out at room temperature overnight, should be stored below 6 degC.

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. Precision data and spike recoveries for tin are unavailable because sample matrix interference necessitated a high dilution.

Non-Conformance Report

NCR ID: 9279

Event(s)

Job(s)

Sample(s)

Test(s)

SE-DIST-2022-02-25-01

NCR Type: SHIPPING/RECEIVING

NCR Category: Samples arrived late

Observation: Samples arrived late and / or expired in receiving custody, samples received within the acceptable temperature range.

Resolution: Samples logged in based on the SMP protocol.
Customer contacted, email correspondence attached to sample submittal forms.
Samples will be qualified as appropriate.

Authorized by/Date: Kyle Klug 3/7/2022

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410650

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: P410650

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 300.0 Rev. 2.1
Batch ID: P410851

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410855

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410626

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410630

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410632

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410428

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410429

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410668

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410911

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410912

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410914

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410932

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410933

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P411011

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

Reference Method: EPA 8270E

Batch ID: P410273

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
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	2.5	U	ng/L
Carbophenothion	2.5	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410273

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410273

Component	Result	Code	Units
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.30	U	ng/L
Prodiamine	0.30	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410273

Component	Result	Code	Units
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P410328

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410328

Component	Result	Code	Units
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 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
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	0.70	U	ng/L
Mirex	0.70	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P410328

Component	Result	Code	Units
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
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: P411150

Component	Result	Code	Units
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L

Reference Method: EPA 8276
Batch ID: P410328

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: P410426

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P410466

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	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
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	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: P410661

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

Reference Method: SM 2320 B-2011

Batch ID: P410711

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P410712

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

Reference Method: SM 2320 B-2011
Batch ID: P410840

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

Reference Method: SM 2540 C-2011
Batch ID: P410754

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P410897

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P410901

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P410902

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410664

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410715

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410716

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P410845

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410541

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

Reference Method: SM 5310 B-2011
Batch ID: P410861

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	107		P	85 - 115
Magnesium	103		P	85 - 115
Strontium	103		P	85 - 115
Tin	104		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	96.3		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P410650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	93.1		P	85 - 115
Antimony	92.2		P	85 - 115
Arsenic	93.2		P	85 - 115
Beryllium	86.7		P	85 - 115
Cadmium	91.7		P	85 - 115
Chromium	88.3		P	85 - 115
Cobalt	92.3		P	85 - 115
Copper	90.2		P	85 - 115
Lead	88.6		P	85 - 115
Manganese	90.1		P	85 - 115
Molybdenum	92.2		P	85 - 115
Nickel	91.8		P	85 - 115
Selenium	91.9		P	85 - 115
Silver	96.9		P	85 - 115
Thallium	92.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410851

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410855

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410626

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.8		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410632

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410668

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410912

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410932

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410933

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P411011

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

Reference Method: EPA 8270E

Batch ID: P410273

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	90.2		P	70 - 121
Alachlor	83.5		P	68 - 119
Ametryn	100		P	64 - 139
Atrazine	87.8		P	76 - 120
Atrazine Desethyl	63.7		P	44 - 126
Avobenzone	144		P	50 - 200
Azinphos Methyl	112		P	43 - 192
Azoxystrobin	106		P	36 - 224
Bromacil	84.8		P	52 - 121
Butylate	50.1		P	28 - 91.0
Caffeine	79.9		P	50 - 134
Carbophenothion	99.3		P	56 - 129
Carfentrazone Ethyl	96.9		P	60 - 141
Chlorfenapyr	94.6		P	56 - 115
Chlorpyrifos Ethyl	85.3		P	60 - 118
Chlorpyrifos Methyl	92.8		P	68 - 119
Coumaphos	85.4		P	18 - 250
Cyanazine	88.9		P	61 - 250
Cyprodinil	107		P	55 - 145
Demeton	99.9		P	30 - 159
Diazinon	90.2		P	70 - 123
Difenoconazole	87.2		P	49 - 204
Dimethenamid	75.1		P	64 - 115
Dimethomorph	178		P	12 - 219
Disulfoton	85.0		P	44 - 125
Dithiopyr	72.5		P	64 - 115
EPTC	48.6		P	28 - 86.0
Ethion	64.5		P	33 - 125
Ethoprop	80.9		P	64 - 116
Etridiazole	51.5		P	34 - 91.0
Fenamiphos	86.7		P	12 - 127
Fenbuconazole	78.6		P	59 - 151
Fipronil	95.2		P	67 - 129
Fipronil Desulfinyl	101		P	65 - 127
Fipronil Sulfide	86.6		P	61 - 116
Fipronil Sulfone	70.7		P	55 - 117
Fluazifop-P-butyl	90.0		P	62 - 127
Fludioxonil	82.0		P	62 - 128
Flumioxazin	73.0		P	33 - 250
Flutolanil	92.5		P	56 - 127
Fluxapyroxad	70.5		P	45 - 128
Fonofos	78.8		P	62 - 111
Hexazinone	83.7		P	46 - 139
Imazalil	76.1		P	38 - 142
Iprodione	82.8		P	47 - 135
Loratadine	160		P	10 - 244

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P410273

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Malathion	84.8		P	61 - 139
Metalaxyl	83.0		P	10 - 119
Metolachlor	81.5		P	65 - 118
Metribuzin	94.4		P	51 - 250
Mevinphos	81.7		P	53 - 121
Molinate	54.7		P	42 - 96.0
Myclobutanil	89.5		P	55 - 128
Naled	64.7		P	10 - 98.0
Napropamide	82.0		P	49 - 121
Norflurazon	81.9		P	61 - 126
Octinoxate	114		P	50 - 150
Oxadiazon	70.8		P	59 - 116
Oxybenzone	119		P	50 - 150
Oxyfluorfen	103		P	64 - 137
Parathion Ethyl	87.0		P	70 - 112
Parathion Methyl	113		P	76 - 133
Pendimethalin	96.9		P	52 - 117
Phenytoin	29.5		P	10 - 199
Phorate	72.1		P	48 - 121
Prodiamine	62.9		P	26 - 142
Prometon	91.7		P	43 - 123
Prometryn	93.9		P	66 - 127
Pronamide	92.3		P	75 - 121
Propanil	118		P	45 - 150
Propargite	66.9		P	42 - 208
Propiconazole	85.6		P	60 - 125
Pyraflufen Ethyl	83.2		P	70 - 138
Pyridaben	90.3		P	35 - 245
Pyriproxyfen	83.3		P	30 - 149
Simazine	91.9		P	72 - 125
Stirophos	66.6		P	29 - 164
Sulfentrazone	73.4		P	21 - 139
Tebuconazole	55.5		P	10 - 115
Terbufos	97.5		P	60 - 123
Terbuthylazine	85.3		P	72 - 115
Thiobencarb	80.8		P	31 - 139
Triadimefon	83.9		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P410328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.9		P	10 - 93.0
Alpha-BHC	96.4		P	75 - 106
Alpha-Chlordane	86.8		P	50 - 109
Beta-BHC	110		P	65 - 135
Beta-Cyfluthrin	105		P	23 - 167
Bifenthrin	93.5		P	11 - 123
Chlorothalonil	54.3		P	26 - 182
Cis-Nonachlor	79.6		P	40 - 111
Cypermethrin	114		P	25 - 155
Dacthal	98.2		P	73 - 112

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P410328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDD-p,p'	82.2		P	47 - 108
DDE-p,p'	82.9		P	48 - 107
DDT-p,p'	87.3		P	49 - 111
Delta-BHC	117		P	68 - 143
Deltamethrin	71.3		P	16 - 176
Dichlobenil	93.6		P	32 - 113
Dicofol	92.7		P	50 - 108
Dieldrin	76.9		P	56 - 110
Endosulfan I	85.3		P	60 - 105
Endosulfan II	88.5		P	50 - 120
Endosulfan Sulfate	101		P	55 - 121
Endrin Aldehyde	62.1		P	36 - 116
Endrin Ketone	177		F	56 - 130
Esfenvalerate	106		P	10 - 179
Ethalfuralin	81.5		P	49 - 99.0
Fenpropathrin	74.4		P	35 - 119
Gamma-BHC	99.9		P	72 - 115
Gamma-Chlordane	85.0		P	45 - 107
Heptachlor	78.9		P	41 - 100
Heptachlor Epoxide	95.9		P	58 - 106
Hexachlorobenzene	83.9		P	39 - 100
Kepone	155		P	10 - 191
Lambda-Cyhalothrin	102		P	10 - 186
Methoxychlor	108		P	61 - 111
MGK-264	77.9		P	20 - 123
Mirex	68.4		P	10 - 182
Oxychlordane	81.7		P	39 - 110
PCB-1016	84.6		P	49 - 111
PCB-1260	90.5		P	42 - 116
Permethrin	105		P	26 - 152
Phenothrin	49.8		P	10 - 109
Prallethrin	40.2		P	14 - 109
Tau-Fluvalinate	94.0		P	16 - 134
Tetramethrin	18.2		P	10 - 125
Trans-Nonachlor	85.1		P	45 - 107
Triclosan Methyl	87.6		P	60 - 110
Trifluralin	82.4		P	49 - 98.0

Reference Method: EPA 8270E
Batch ID: P411150

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	57.8		P	31 - 119
Methoprene	23.9		P	10 - 129
Piperonyl Butoxide	80.4		P	27 - 142

Reference Method: EPA 8276
Batch ID: P410328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	93.2		P	61 - 118
Toxaphene	81.2		P	51 - 122

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P410426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.8		P	40 - 150
AMPA	105		P	40 - 150
Endothall	92.3		P	40 - 150
Glufosinate	111		P	40 - 150
Glyphosate	98.3		P	40 - 150
Sucralose	126		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P410466

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	116		P	40 - 150
2,4,5-T	90.7		P	40 - 150
3-Hydroxycarbofuran	100		P	40 - 150
Acetaminophen	106		P	30 - 150
Acetamiprid	120		P	40 - 150
Afidopyropen	93.0		P	40 - 150
Aldicarb	92.0		P	30 - 150
Aldicarb Sulfone	117		P	40 - 150
Aldicarb Sulfoxide	137		P	40 - 150
Bentazon	109		P	30 - 150
Benzovindiflupyr	124		P	40 - 150
Carbamazepine	138		P	40 - 150
Carbaryl	93.5		P	40 - 150
Carbofuran	127		P	40 - 150
Clothianidin	93.4		P	40 - 150
Dinotefuran	115		P	40 - 150
Diuron	104		P	40 - 150
Fenuron	111		P	40 - 150
Fluridone	102		P	40 - 150
Hydrocodone	104		P	40 - 150
Ibuprofen	106		P	40 - 150
Imazapyr	104		P	40 - 150
Imidacloprid	113		P	40 - 150
Linuron	98.8		P	40 - 150
Mandestrobin	125		P	40 - 150
MCPP	110		P	40 - 150
Methiocarb	82.5		P	40 - 150
Methomyl	105		P	40 - 150
Naproxen	73.1		P	40 - 150
Oxamyl	114		P	40 - 150
Primidone	117		P	40 - 150
Propoxur	108		P	40 - 150
Pyraclostrobin	96.1		P	40 - 150
Silvex	83.9		P	40 - 150
Thiamethoxam	113		P	40 - 150
Tolfenpyrad	43.0		P	30 - 150
Triclopyr	85.8		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P410661

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

Reference Method: SM 2320 B-2011
Batch ID: P410711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.8		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P410712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.3		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P410840

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.0		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P410664

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.5		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P410715

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P410716

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P410845

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410541

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P410861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P410650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307617	Iron	100	105	P/P	70 - 130
2307617	Titanium	97.6	105	P/P	70 - 130
2307617	Vanadium	97.6	101	P/P	70 - 130
2307617	Zinc	97.0	101	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P410650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307617	Aluminum	103	103	P/P	70 - 130
2307617	Antimony	100	99.9	P/P	70 - 130
2307617	Arsenic	105	105	P/P	70 - 130
2307617	Beryllium	96.3	99.9	P/P	70 - 130
2307617	Cadmium	90.5	89.5	P/P	70 - 130
2307617	Chromium	95.2	95.9	P/P	70 - 130
2307617	Cobalt	111	111	P/P	70 - 130
2307617	Copper	97.9	97.5	P/P	70 - 130
2307617	Lead	104	104	P/P	70 - 130
2307617	Manganese	94.6	94.3	P/P	70 - 130
2307617	Molybdenum	78.5	71.3	P/P	70 - 130
2307617	Nickel	108	108	P/P	70 - 130
2307617	Selenium	92.4	92.6	P/P	70 - 130
2307617	Silver	89.4	89.3	P/P	70 - 130
2307617	Thallium	109	110	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P410851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308284	Chloride	99.0		P	90 - 110
2308650	Chloride	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P410855

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308284	Sulfate	97.1		P	90 - 110
2308650	Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P410626

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307966	Ammonia-N	95.2	95.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P410630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307561	Ammonia-N	98.4	100	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410632

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308285	Ammonia-N	96.8	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307392	Kjeldahl Nitrogen	96.1	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307907	Kjeldahl Nitrogen	97.2	95.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410668

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308134	Kjeldahl Nitrogen	86.0	93.5	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308327	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410912

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308877	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308467	NO2NO3-N	97.9	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410932

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308276	Total-P	97.2	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410933

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308314	Total-P	106	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411011

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308473	Total-P	92.6	93.6	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P410273

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307903	Acetochlor	92.0	93.4	P/P	65 - 124
2307903	Alachlor	81.9	86.5	P/P	61 - 121
2307903	Ametryn	94.3	99.2	P/P	52 - 216
2307903	Atrazine	85.9	88.1	P/P	68 - 133
2307903	Atrazine Desethyl	48.0	51.0	P/P	15 - 160
2307903	Avobenzone	141	150	P/P	50 - 200
2307903	Azinphos Methyl	115	119	P/P	40 - 292
2307903	Azoxystrobin	90.2	104	P/P	12 - 242
2307903	Bromacil	74.9	73.9	P/P	54 - 167
2307903	Butylate	47.0	52.6	P/P	14 - 94.0
2307903	Caffeine	80.5	76.5	P/P	10 - 226
2307903	Carbophenothion	84.7	92.5	P/P	49 - 122
2307903	Carfentrazone Ethyl	95.8	97.6	P/P	53 - 138
2307903	Chlorfenapyr	95.1	93.6	P/P	50 - 150
2307903	Chlorpyrifos Ethyl	74.7	78.1	P/P	52 - 122
2307903	Chlorpyrifos Methyl	82.8	87.9	P/P	66 - 117
2307903	Coumaphos	77.2	80.1	P/P	50 - 220
2307903	Cyanazine	96.2	95.8	P/P	43 - 245
2307903	Cyprodinil	108	112	P/P	50 - 150
2307903	Demeton	98.6	101	P/P	43 - 188
2307903	Diazinon	92.3	93.5	P/P	69 - 131
2307903	Difenoconazole	91.0	97.6	P/P	34 - 231
2307903	Dimethenamid	78.1	77.3	P/P	55 - 118
2307903	Dimethomorph	156	166	F/F	50 - 150
2307903	Disulfoton	84.3	93.1	P/P	38 - 141
2307903	Dithiopyr	73.1	75.1	P/P	42 - 116
2307903	EPTC	45.6	61.2	P/P	18 - 85.0
2307903	Ethion	73.2	59.7	P/P	10 - 131
2307903	Ethoprop	79.2	82.3	P/P	65 - 129
2307903	Etridiazole	51.4	59.6	P/P	50 - 150
2307903	Fenamiphos	79.7	92.9	P/P	31 - 137
2307903	Fenbuconazole	81.0	83.5	P/P	57 - 160
2307903	Fipronil	101	103	P/P	62 - 132
2307903	Fipronil Desulfinyl	99.4	105	P/P	57 - 131
2307903	Fipronil Sulfide	86.4	87.7	P/P	15 - 138
2307903	Fipronil Sulfone	67.6	60.2	P/P	21 - 134
2307903	Fluazifop-P-butyl	88.3	88.9	P/P	54 - 133
2307903	Fludioxonil	84.4	81.8	P/P	58 - 127
2307903	Flumioxazin	80.5	97.7	P/P	33 - 300
2307903	Flutolanil	90.2	86.9	P/P	42 - 130
2307903	Fluxapyroxad	75.3	72.6	P/P	23 - 141
2307903	Fonofos	73.9	80.2	P/P	58 - 119
2307903	Hexazinone	84.7	90.4	P/P	68 - 172
2307903	Imazalil	73.3	76.7	P/P	48 - 283
2307903	Iprodione	83.5	85.9	P/P	38 - 140
2307903	Loratadine	139	148	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P410273

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307903	Malathion	75.1	77.6	P/P	40 - 137
2307903	Metalaxyl	86.3	85.2	P/P	21 - 129
2307903	Metolachlor	79.8	81.5	P/P	55 - 122
2307903	Metribuzin	84.3	87.8	P/P	38 - 187
2307903	Mevinphos	76.6	78.5	P/P	54 - 134
2307903	Molinate	52.8	64.1	P/P	41 - 97.0
2307903	Myclobutanil	76.1	82.8	P/P	56 - 125
2307903	Naled	67.1	65.6	P/P	10 - 108
2307903	Napropamide	81.7	75.8	P/P	50 - 150
2307903	Norflurazon	77.8	83.1	P/P	32 - 122
2307903	Octinoxate	118	123	P/P	50 - 150
2307903	Oxadiazon	71.4	70.4	P/P	40 - 119
2307903	Oxybenzone	127	133	P/P	50 - 150
2307903	Oxyfluorfen	110	112	P/P	61 - 153
2307903	Parathion Ethyl	83.2	85.5	P/P	59 - 130
2307903	Parathion Methyl	107	114	P/P	65 - 155
2307903	Pendimethalin	96.2	107	P/P	49 - 138
2307903	Phenytoin	42.1	30.4	F/F	50 - 200
2307903	Phorate	73.4	77.0	P/P	54 - 161
2307903	Prodiamine	40.2	41.9	P/P	33 - 161
2307903	Prometon	92.7	101	P/P	48 - 140
2307903	Prometryn	96.1	101	P/P	55 - 134
2307903	Pronamide	90.4	95.4	P/P	66 - 137
2307903	Propanil	111	113	P/P	50 - 150
2307903	Propargite	70.4	70.5	P/P	50 - 200
2307903	Propiconazole	80.7	90.1	P/P	36 - 150
2307903	Pyraflufen Ethyl	76.2	82.5	P/P	50 - 150
2307903	Pyridaben	69.1	90.0	P/P	50 - 200
2307903	Pyriproxyfen	86.0	85.9	P/P	10 - 165
2307903	Simazine	88.6	90.7	P/P	57 - 145
2307903	Stirophos	69.5	59.6	P/P	50 - 150
2307903	Tebuconazole	66.2	52.7	P/P	10 - 127
2307903	Terbufos	93.3	101	P/P	59 - 138
2307903	Terbuthylazine	84.0	89.0	P/P	68 - 119
2307903	Thiobencarb	73.2	83.5	P/P	50 - 150
2307903	Triadimefon	79.6	81.2	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P410328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307892	Aldrin	47.3	44.4	P/P	10 - 89.0
2307892	Alpha-BHC	87.0	82.3	P/P	71 - 105
2307892	Alpha-Chlordane	74.8	69.6	P/P	43 - 107
2307892	Beta-BHC	101	96.2	P/P	57 - 152
2307892	Beta-Cyfluthrin	104	101	P/P	29 - 186
2307892	Bifenthrin	81.2	81.4	P/P	19 - 119
2307892	Chlorothalonil	154	159	P/P	10 - 245
2307892	Cis-Nonachlor	65.5	56.8	P/P	36 - 110
2307892	Cypermethrin	115	102	P/P	24 - 169
2307892	Dacthal	83.9	81.9	P/P	62 - 115
2307892	DDD-p,p'	68.1	65.8	P/P	36 - 109

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P410328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307892	DDE-p,p'	66.3	64.0	P/P	30 - 114
2307892	DDT-p,p'	73.3	70.4	P/P	42 - 108
2307892	Delta-BHC	112	105	P/P	60 - 164
2307892	Deltamethrin	56.0	62.1	P/P	10 - 210
2307892	Dichlobenil	74.9	75.3	P/P	23 - 108
2307892	Dicofol	78.7	72.6	P/P	44 - 109
2307892	Dieldrin	69.6	61.0	P/P	37 - 119
2307892	Endosulfan I	70.9	65.9	P/P	52 - 105
2307892	Endosulfan II	75.2	70.4	P/P	35 - 127
2307892	Endosulfan Sulfate	83.0	71.1	P/P	39 - 130
2307892	Endrin Aldehyde	22.9	34.0	P/P	20 - 110
2307892	Endrin Ketone	126	139	P/F	48 - 134
2307892	Esfenvalerate	97.1	94.2	P/P	10 - 199
2307892	Ethalfuralin	68.2	66.0	P/P	48 - 95.0
2307892	Fenpropathrin	75.9	74.7	P/P	37 - 121
2307892	Gamma-BHC	89.8	87.0	P/P	61 - 126
2307892	Gamma-Chlordane	73.0	71.3	P/P	39 - 105
2307892	Heptachlor	68.7	64.2	P/P	38 - 96.0
2307892	Heptachlor Epoxide	96.4	76.9	P/P	42 - 114
2307892	Hexachlorobenzene	72.6	69.5	P/P	39 - 93.0
2307892	Kepone	142	135	P/P	10 - 215
2307892	Lambda-Cyhalothrin	104	117	P/P	10 - 204
2307892	Methoxychlor	100	91.5	P/P	56 - 115
2307892	MGK-264	65.4	65.5	P/P	35 - 120
2307892	Mirex	64.3	60.0	P/P	10 - 178
2307892	Oxychlordane	65.2	68.5	P/P	47 - 91.0
2307892	Permethrin	99.9	94.0	P/P	27 - 170
2307892	Phenothrin	60.6	53.8	P/P	10 - 133
2307892	Prallethrin	44.7	46.2	P/P	21 - 113
2307892	Tau-Fluvalinate	99.7	96.5	P/P	16 - 158
2307892	Tetramethrin	37.5	42.7	P/P	22 - 132
2307892	Trans-Nonachlor	68.0	67.0	P/P	43 - 102
2307892	Triclosan Methyl	69.2	65.5	P/P	49 - 109
2307892	Trifluralin	71.0	67.4	P/P	48 - 93.0
2307902	PCB-1016	79.3	64.5	P/P	46 - 110
2307902	PCB-1260	93.4	79.2	P/P	42 - 111

Reference Method: EPA 8270E

Batch ID: P411150

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308510	Endrin	79.0	68.2	P/P	30 - 116
2308510	Methoprene	63.7	64.9	P/P	17 - 108
2308510	Piperonyl Butoxide	84.6	69.5	P/P	23 - 150

Reference Method: EPA 8276

Batch ID: P410328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307902	Chlordane	85.2	64.9	P/P	55 - 128
2307902	Toxaphene	88.5	64.5	P/P	57 - 211

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P410426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307763	Acesulfame K	101	101	P/P	40 - 150
2307763	AMPA	119	126	P/P	40 - 150
2307763	Endothall	93.8	93.7	P/P	40 - 150
2307763	Glufosinate	103	114	P/P	40 - 150
2307763	Glyphosate	92.6	99.0	P/P	40 - 150
2307763	Sucralose	114	121	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P410466

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308369	2,4-D	79.5	87.9	P/P	40 - 150
2308369	2,4,5-T	69.8	78.4	P/P	40 - 150
2308369	Acetaminophen	106	97.6	P/P	30 - 150
2308369	Acetamiprid	90.0	96.5	P/P	40 - 150
2308369	Afidopyropen	87.8	85.0	P/P	40 - 150
2308369	Bentazon	60.8	65.4	P/P	30 - 150
2308369	Benzovindiflupyr	87.4	96.3	P/P	40 - 150
2308369	Carbamazepine	105	111	P/P	40 - 150
2308369	Clothianidin	95.3	93.7	P/P	40 - 150
2308369	Dinotefuran	154	123	F/P	40 - 150
2308369	Diuron	70.9	65.7	P/P	40 - 150
2308369	Fenuron	53.1	47.4	P/P	40 - 150
2308369	Fluridone	104	91.1	P/P	40 - 150
2308369	Hydrocodone	75.9	65.1	P/P	40 - 150
2308369	Ibuprofen	113	85.2	P/P	40 - 150
2308369	Imazapyr	142	112	P/P	40 - 150
2308369	Imidacloprid	147	155	P/F	40 - 150
2308369	Linuron	120	88.7	P/P	40 - 150
2308369	Mandestrobin	107	105	P/P	40 - 150
2308369	MCPP	99.9	96.7	P/P	40 - 150
2308369	Naproxen	62.8	67.6	P/P	40 - 150
2308369	Primidone	89.6	106	P/P	40 - 150
2308369	Pyraclostrobin	101	94.6	P/P	40 - 150
2308369	Silvex	76.2	78.0	P/P	40 - 150
2308369	Thiamethoxam	150	144	P/P	40 - 150
2308369	Tolfenpyrad	50.4	48.4	P/P	30 - 150
2308369	Triclopyr	66.2	71.8	P/P	40 - 150
2308508	3-Hydroxycarbofuran	115	109	P/P	40 - 150
2308508	Aldicarb	74.0	77.7	P/P	30 - 150
2308508	Aldicarb Sulfone	107	112	P/P	40 - 150
2308508	Aldicarb Sulfoxide	64.0	71.7	P/P	40 - 150
2308508	Carbaryl	82.0	79.8	P/P	40 - 150
2308508	Carbofuran	104	111	P/P	40 - 150
2308508	Methiocarb	90.2	83.7	P/P	40 - 150
2308508	Methomyl	92.5	88.3	P/P	40 - 150
2308508	Oxamyl	102	98.3	P/P	40 - 150
2308508	Propoxur	103	101	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P410664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308685	Fluoride	98.0	97.5	P/P	92 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P410715

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307282	Fluoride	98.9	99.7	P/P	92 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P410716

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308822	Fluoride	101	102	P/P	92 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P410845

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308962	Fluoride	98.0	95.6	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410541

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307667	Organic Carbon	96.2	96.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P410861

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308465	Organic Carbon	97.2	99.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P410650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307617	Calcium	2.18	Spike	P	0 - 20
2307617	Iron	4.34	Spike	P	0 - 20
2307617	Magnesium	0.173	Spike	P	0 - 20
2307617	Strontium	3.06	Spike	P	0 - 20
2307617	Titanium	6.81	Spike	P	0 - 20
2307617	Vanadium	3.33	Spike	P	0 - 20
2307617	Zinc	4.41	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P410650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307617	Aluminum	0.400	Spike	P	0 - 20
2307617	Antimony	0.306	Spike	P	0 - 20
2307617	Arsenic	0.526	Spike	P	0 - 20
2307617	Beryllium	3.65	Spike	P	0 - 20
2307617	Cadmium	1.11	Spike	P	0 - 20
2307617	Chromium	0.771	Spike	P	0 - 20
2307617	Cobalt	0.308	Spike	P	0 - 20
2307617	Copper	0.378	Spike	P	0 - 20
2307617	Lead	0.227	Spike	P	0 - 20
2307617	Manganese	0.283	Spike	P	0 - 20
2307617	Molybdenum	3.97	Spike	P	0 - 20
2307617	Nickel	0.289	Spike	P	0 - 20
2307617	Selenium	0.228	Spike	P	0 - 20
2307617	Silver	0.105	Spike	P	0 - 20
2307617	Thallium	0.273	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P410851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308284	Chloride	2.10	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P410855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308284	Sulfate	0.525	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P410626

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307966	Ammonia-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307561	Ammonia-N	1.49	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410632

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308285	Ammonia-N	1.53	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307392	Kjeldahl Nitrogen	1.96	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307907	Kjeldahl Nitrogen	1.50	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308134	Kjeldahl Nitrogen	7.60	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308327	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410912

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308877	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308467	NO2NO3-N	1.15	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P410932

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308276	Total-P	0.123	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P410933

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308314	Total-P	3.56	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P411011

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308473	Total-P	0.973	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P410273

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307903	Acetochlor	1.55	Spike	P	0 - 27
2307903	Alachlor	5.42	Spike	P	0 - 27
2307903	Ametryn	5.01	Spike	P	0 - 34
2307903	Atrazine	2.01	Spike	P	0 - 41
2307903	Atrazine Desethyl	4.81	Spike	P	0 - 38
2307903	Avobenzone	6.02	Spike	P	0 - 30
2307903	Azinphos Methyl	3.10	Spike	P	0 - 62
2307903	Azoxystrobin	14.1	Spike	P	0 - 32
2307903	Bromacil	1.45	Spike	P	0 - 30
2307903	Butylate	11.2	Spike	P	0 - 59
2307903	Caffeine	5.16	Spike	P	0 - 60
2307903	Carbophenothion	8.79	Spike	P	0 - 25
2307903	Carfentrazone Ethyl	1.94	Spike	P	0 - 26
2307903	Chlorfenapyr	1.49	Spike	P	0 - 30
2307903	Chlorpyrifos Ethyl	4.46	Spike	P	0 - 27
2307903	Chlorpyrifos Methyl	6.00	Spike	P	0 - 26
2307903	Coumaphos	3.77	Spike	P	0 - 30
2307903	Cyanazine	0.404	Spike	P	0 - 58
2307903	Cyprodinil	4.27	Spike	P	0 - 30
2307903	Demeton	2.39	Spike	P	0 - 25
2307903	Diazinon	1.19	Spike	P	0 - 29
2307903	Difenoconazole	6.96	Spike	P	0 - 25
2307903	Dimethenamid	1.05	Spike	P	0 - 30
2307903	Dimethomorph	6.08	Spike	P	0 - 30
2307903	Disulfoton	10.0	Spike	P	0 - 33
2307903	Dithiopyr	2.62	Spike	P	0 - 22
2307903	EPTC	29.1	Spike	P	0 - 38
2307903	Ethion	20.2	Spike	P	0 - 79
2307903	Ethoprop	3.80	Spike	P	0 - 23
2307903	Etridiazole	14.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307903	Fenamiphos	15.3	Spike	P	0 - 58
2307903	Fenbuconazole	2.95	Spike	P	0 - 37
2307903	Fipronil	1.14	Spike	P	0 - 33
2307903	Fipronil Desulfinyl	5.59	Spike	P	0 - 26
2307903	Fipronil Sulfide	1.54	Spike	P	0 - 37
2307903	Fipronil Sulfone	8.22	Spike	P	0 - 50
2307903	Fluazifop-P-butyl	0.652	Spike	P	0 - 24
2307903	Fludioxonil	3.08	Spike	P	0 - 26
2307903	Flumioxazin	19.4	Spike	P	0 - 37
2307903	Flutolanil	3.74	Spike	P	0 - 26
2307903	Fluxapyroxad	3.72	Spike	P	0 - 34
2307903	Fonofos	8.18	Spike	P	0 - 27
2307903	Hexazinone	6.46	Spike	P	0 - 36
2307903	Imazalil	4.46	Spike	P	0 - 65
2307903	Iprodione	2.81	Spike	P	0 - 33
2307903	Loratadine	6.06	Spike	P	0 - 30
2307903	Malathion	3.20	Spike	P	0 - 44
2307903	Metalaxyl	1.25	Spike	P	0 - 38
2307903	Metolachlor	2.08	Spike	P	0 - 36
2307903	Metribuzin	4.12	Spike	P	0 - 63
2307903	Mevinphos	2.51	Spike	P	0 - 26
2307903	Molinate	19.3	Spike	P	0 - 40
2307903	Myclobutanil	8.49	Spike	P	0 - 21
2307903	Naled	2.36	Spike	P	0 - 26
2307903	Napropamide	7.40	Spike	P	0 - 30
2307903	Norflurazon	6.57	Spike	P	0 - 24
2307903	Octinoxate	3.38	Spike	P	0 - 30
2307903	Oxadiazon	1.49	Spike	P	0 - 27
2307903	Oxybenzone	4.97	Spike	P	0 - 30
2307903	Oxyfluorfen	1.50	Spike	P	0 - 24
2307903	Parathion Ethyl	2.78	Spike	P	0 - 28
2307903	Parathion Methyl	6.65	Spike	P	0 - 27
2307903	Pendimethalin	10.5	Spike	P	0 - 31
2307903	Phenytol	32.3	Spike	F	0 - 30
2307903	Phorate	4.76	Spike	P	0 - 27
2307903	Prodiamine	4.00	Spike	P	0 - 52
2307903	Prometon	8.22	Spike	P	0 - 31
2307903	Prometryn	4.97	Spike	P	0 - 28
2307903	Pronamide	5.28	Spike	P	0 - 26
2307903	Propanil	1.88	Spike	P	0 - 30
2307903	Propargite	0.142	Spike	P	0 - 30
2307903	Propiconazole	10.9	Spike	P	0 - 31
2307903	Pyraflufen Ethyl	7.95	Spike	P	0 - 30
2307903	Pyridaben	26.3	Spike	P	0 - 30
2307903	Pyriproxyfen	0.0974	Spike	P	0 - 50
2307903	Simazine	2.33	Spike	P	0 - 29
2307903	Stirophos	15.4	Spike	P	0 - 30
2307903	Sulfentrazone	1.06	Spike	P	0 - 33
2307903	Tebuconazole	22.7	Spike	P	0 - 44
2307903	Terbufos	7.85	Spike	P	0 - 29
2307903	Terbutylazine	5.78	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307903	Thiobencarb	13.1	Spike	P	0 - 30
2307903	Triadimefon	2.01	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P410328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307892	Aldrin	6.38	Spike	P	0 - 37
2307892	Alpha-BHC	5.52	Spike	P	0 - 16
2307892	Alpha-Chlordane	7.13	Spike	P	0 - 28
2307892	Beta-BHC	4.64	Spike	P	0 - 32
2307892	Beta-Cyfluthrin	2.64	Spike	P	0 - 41
2307892	Bifenthrin	0.265	Spike	P	0 - 36
2307892	Chlorothalonil	3.02	Spike	P	0 - 54
2307892	Cis-Nonachlor	14.1	Spike	P	0 - 33
2307892	Cypermethrin	12.3	Spike	P	0 - 38
2307892	Dacthal	2.43	Spike	P	0 - 23
2307892	DDD-p,p'	3.49	Spike	P	0 - 35
2307892	DDE-p,p'	3.49	Spike	P	0 - 27
2307892	DDT-p,p'	4.04	Spike	P	0 - 31
2307892	Delta-BHC	6.02	Spike	P	0 - 30
2307892	Deltamethrin	10.4	Spike	P	0 - 76
2307892	Dichlobenil	0.531	Spike	P	0 - 33
2307892	Dicofol	8.11	Spike	P	0 - 24
2307892	Dieldrin	12.1	Spike	P	0 - 35
2307892	Endosulfan I	7.31	Spike	P	0 - 25
2307892	Endosulfan II	6.66	Spike	P	0 - 31
2307892	Endosulfan Sulfate	15.5	Spike	P	0 - 38
2307892	Endrin Aldehyde	39.2	Spike	P	0 - 81
2307892	Endrin Ketone	10.2	Spike	P	0 - 33
2307892	Esfenvalerate	2.95	Spike	P	0 - 46
2307892	Ethalfuralin	3.29	Spike	P	0 - 22
2307892	Fenpropathrin	1.59	Spike	P	0 - 29
2307892	Gamma-BHC	3.14	Spike	P	0 - 17
2307892	Gamma-Chlordane	2.32	Spike	P	0 - 28
2307892	Heptachlor	6.71	Spike	P	0 - 28
2307892	Heptachlor Epoxide	22.6	Spike	P	0 - 23
2307892	Hexachlorobenzene	4.35	Spike	P	0 - 22
2307892	Kepone	4.95	Spike	P	0 - 61
2307892	Lambda-Cyhalothrin	12.1	Spike	P	0 - 52
2307892	Methoxychlor	9.11	Spike	P	0 - 29
2307892	MGK-264	0.193	Spike	P	0 - 41
2307892	Mirex	6.97	Spike	P	0 - 39
2307892	Oxychlordane	4.99	Spike	P	0 - 33
2307892	Permethrin	6.05	Spike	P	0 - 39
2307892	Phenothrin	12.0	Spike	P	0 - 52
2307892	Prallethrin	3.21	Spike	P	0 - 34
2307892	Tau-Fluvalinate	3.22	Spike	P	0 - 41
2307892	Tetramethrin	13.1	Spike	P	0 - 43
2307892	Trans-Nonachlor	1.57	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307892	Triclosan Methyl	5.56	Spike	P	0 - 24
2307892	Trifluralin	5.18	Spike	P	0 - 23
2307902	PCB-1016	20.6	Spike	P	0 - 22
2307902	PCB-1260	16.4	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P411150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308510	Endrin	14.7	Spike	P	0 - 53
2308510	Methoprene	1.86	Spike	P	0 - 38
2308510	Piperonyl Butoxide	15.5	Spike	P	0 - 91

Reference Method: EPA 8276
Batch ID: P410328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307902	Chlordane	27.0	Spike	F	0 - 25
2307902	Toxaphene	31.3	Spike	F	0 - 24

Reference Method: EPA 8321B
Batch ID: P410426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307763	Acesulfame K	0.540	Spike	P	0 - 30
2307763	AMPA	5.45	Spike	P	0 - 30
2307763	Endothall	0.107	Spike	P	0 - 30
2307763	Glufosinate	10.2	Spike	P	0 - 30
2307763	Glyphosate	6.70	Spike	P	0 - 30
2307763	Sucralose	5.34	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P410466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308369	2,4-D	9.96	Spike	P	0 - 30
2308369	2,4,5-T	11.5	Spike	P	0 - 30
2308369	Acetaminophen	7.99	Spike	P	0 - 30
2308369	Acetamiprid	6.92	Spike	P	0 - 30
2308369	Afidopyropen	3.18	Spike	P	0 - 30
2308369	Bentazon	3.70	Spike	P	0 - 30
2308369	Benzovindiflupyr	9.65	Spike	P	0 - 30
2308369	Carbamazepine	4.86	Spike	P	0 - 30
2308369	Clothianidin	1.74	Spike	P	0 - 30
2308369	Dinotefuran	22.3	Spike	P	0 - 30
2308369	Diuron	6.67	Spike	P	0 - 30
2308369	Fenuron	7.35	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P410466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308369	Fluridone	11.6	Spike	P	0 - 30
2308369	Hydrocodone	15.3	Spike	P	0 - 30
2308369	Ibuprofen	28.0	Spike	P	0 - 30
2308369	Imazapyr	15.1	Spike	P	0 - 30
2308369	Imidacloprid	4.80	Spike	P	0 - 30
2308369	Linuron	29.8	Spike	P	0 - 30
2308369	Mandestrobin	2.30	Spike	P	0 - 30
2308369	MCPP	3.32	Spike	P	0 - 30
2308369	Naproxen	7.40	Spike	P	0 - 30
2308369	Primidone	17.1	Spike	P	0 - 30
2308369	Pyraclostrobin	6.77	Spike	P	0 - 30
2308369	Silvex	2.22	Spike	P	0 - 30
2308369	Thiamethoxam	3.94	Spike	P	0 - 30
2308369	Tolfenpyrad	4.07	Spike	P	0 - 30
2308369	Triclopyr	8.13	Spike	P	0 - 30
2308508	3-Hydroxycarbofuran	4.54	Spike	P	0 - 30
2308508	Aldicarb	4.92	Spike	P	0 - 30
2308508	Aldicarb Sulfone	4.47	Spike	P	0 - 30
2308508	Aldicarb Sulfoxide	11.3	Spike	P	0 - 30
2308508	Carbaryl	2.70	Spike	P	0 - 30
2308508	Carbofuran	7.02	Spike	P	0 - 30
2308508	Methiocarb	7.53	Spike	P	0 - 30
2308508	Methomyl	4.66	Spike	P	0 - 30
2308508	Oxamyl	3.86	Spike	P	0 - 30
2308508	Propoxur	2.73	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P410661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308685	Total Alkalinity	0.0161	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P410711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307282	Total Alkalinity	1.50	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P410712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308822	Total Alkalinity	0.372	Sample	P	0 - 5.2

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P410840

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308962	Total Alkalinity	0.538	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P410754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308284	TDS	3.31	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P410664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308685	Fluoride	0.498	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P410715

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307282	Fluoride	0.516	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P410716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308822	Fluoride	0.953	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P410845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308962	Fluoride	1.47	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410541

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307667	Organic Carbon	0.0602	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P410861

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308465	Organic Carbon	1.80	Spike	P	0 - 20

Quality Assurance Report Precision

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

Quality Assurance Report Surrogates

Lab Sample ID: 2308507
Field Sample ID: G2SE0018

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	101	P	30 - 160
EPA 8321B	Carbamazepine-d10	125	P	30 - 160
EPA 8321B	Diuron-d6	73.7	P	30 - 160
EPA 8321B	Endothall-d6	80.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.9	P	30 - 160
EPA 8321B	Primidone-d5	74.6	P	30 - 160
EPA 8321B	Sucralose-d6	91.3	P	30 - 160

Lab Sample ID: 2308508
Field Sample ID: G2SE0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	84.0	P	30 - 160

Lab Sample ID: 2308509
Field Sample ID: G2SE0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	110	P	30 - 160
EPA 8321B	Diuron-d6	64.5	P	30 - 160
EPA 8321B	Endothall-d6	74.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.7	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160

Lab Sample ID: 2308510
Field Sample ID: G2SE0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	58.5	P	38 - 115
EPA 8270E	Decachlorobiphenyl	68.0	P	31 - 118
EPA 8270E	Decachlorobiphenyl	66.8	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	52.6	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	60.3	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	44.7	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	56.2	P	30 - 97.0
EPA 8276	PCNB	69.6	P	45 - 119

Lab Sample ID: 2308511
Field Sample ID: G2SE0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	68.0	P	20 - 200
EPA 8270E	Simazine-d10	111	P	71 - 140
EPA 8270E	Terbufos-d10	94.3	P	62 - 131
EPA 8270E	Terphenyl-d14	112	F	55 - 108

Quality Assurance Report Surrogates

Lab Sample ID: 2308512
Field Sample ID: G2SE0063

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	54.1	P	20 - 200
EPA 8270E	Simazine-d10	127	P	71 - 140
EPA 8270E	Terbufos-d10	113	P	62 - 131
EPA 8270E	Terphenyl-d14	96.9	P	55 - 108

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110698

Included Lab Sample IDs: 2308507, 2308509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	101	104	P/P	60 - 160
AMPA	104	99.8	P/P	60 - 160
Glufosinate	102	101	P/P	60 - 160
Glufosinate	97.3	102	P/P	60 - 160
Glyphosate	88.7	94.4	P/P	60 - 160
Glyphosate	94.4	87.9	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A110701

Included Lab Sample IDs: 2308467

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.7	97.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A110702

Included Lab Sample IDs: 2308507, 2308509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	93.7	91.8	P/P	60 - 160
Endothall	99.0	93.0	P/P	60 - 160
Sucralose	129	114	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110712

Included Lab Sample IDs: 2308465, 2308467, 2308469, 2308472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.8	95.3	P/P	90 - 110
Kjeldahl Nitrogen	98.3	96.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110733

Included Lab Sample IDs: 2308465, 2308469, 2308472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.7	P/P	90 - 110
Ammonia-N	99.3	97.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110734

Included Lab Sample IDs: 2308467, 2308473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	98.8	P/P	90 - 110
Ammonia-N	99.5	98.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A110751

Included Lab Sample IDs: 2308466

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	98.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110751

Included Lab Sample IDs: 2308466

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

Reference Method: SM 2320 B-2011

Run ID: A110777

Included Lab Sample IDs: 2308468, 2308470, 2308471

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.1	95.6	P/P	90 - 110
Total Alkalinity	96.3	95.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110777

Included Lab Sample IDs: 2308468, 2308470, 2308471

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	101	P/P	90 - 110
Fluoride	102	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A110779

Included Lab Sample IDs: 2308507, 2308509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	97.8	P/P	50 - 150
2,4,5-T	112	96.7	P/P	50 - 150
3-Hydroxycarbofuran	114	95.1	P/P	60 - 150
Acetaminophen	112	91.8	P/P	60 - 160
Acetamiprid	107	103	P/P	50 - 150
Afidopyropen	125	102	P/P	50 - 150
Aldicarb	91.4	85.2	P/P	60 - 150
Aldicarb Sulfone	107	94.2	P/P	50 - 150
Aldicarb Sulfoxide	125	114	P/P	50 - 150
Bentazon	91.1	98.5	P/P	50 - 160
Benzovindiflupyr	107	120	P/P	50 - 150
Carbamazepine	115	109	P/P	60 - 150
Carbaryl	94.3	107	P/P	60 - 150
Carbofuran	112	110	P/P	50 - 150
Clothianidin	95.0	105	P/P	60 - 150
Dinotefuran	121	103	P/P	50 - 150
Diuron	96.6	82.7	P/P	60 - 160
Fenuron	78.8	68.8	P/P	60 - 150
Fluridone	125	110	P/P	60 - 160
Hydrocodone	86.1	86.8	P/P	60 - 150
Ibuprofen	73.4	87.6	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110779

Included Lab Sample IDs: 2308507, 2308509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imazapyr	80.3	84.5	P/P	50 - 150
Imidacloprid	95.5	89.1	P/P	60 - 150
Linuron	125	113	P/P	60 - 150
Mandestrobin	121	118	P/P	50 - 150
MCPP	80.4	100	P/P	50 - 150
Methiocarb	101	110	P/P	50 - 150
Methomyl	107	88.4	P/P	50 - 150
Naproxen	103	88.8	P/P	50 - 160
Oxamyl	110	91.6	P/P	50 - 150
Primidone	136	120	P/P	60 - 150
Propoxur	116	126	P/P	50 - 150
Pyraclostrobin	123	112	P/P	60 - 150
Silvex	109	94.3	P/P	50 - 150
Thiamethoxam	103	99.7	P/P	50 - 150
Tolfenpyrad	93.2	142	P/P	60 - 150
Triclopyr	112	104	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A110787

Included Lab Sample IDs: 2308510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.3		P	80 - 120
Toxaphene	95.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110791

Included Lab Sample IDs: 2308513, 2308514, 2308515, 2308516

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.7	100	P/P	90 - 110
Antimony	97.0	98.4	P/P	90 - 110
Arsenic	99.9	99.3	P/P	90 - 110
Beryllium	97.2	96.6	P/P	90 - 110
Cadmium	97.5	98.3	P/P	90 - 110
Chromium	97.5	96.8	P/P	90 - 110
Cobalt	99.8	97.7	P/P	90 - 110
Copper	100	97.7	P/P	90 - 110
Lead	93.2	92.2	P/P	90 - 110
Manganese	98.0	97.2	P/P	90 - 110
Molybdenum	98.4	98.8	P/P	90 - 110
Nickel	100	98.0	P/P	90 - 110
Selenium	98.9	99.5	P/P	90 - 110
Silver	94.9	94.9	P/P	90 - 110
Thallium	97.6	96.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110796

Included Lab Sample IDs: 2308511, 2308512

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
-----------	---------	---------	------------	----------------

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110796

Included Lab Sample IDs: 2308511, 2308512

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	114		P	80 - 120
Atrazine	97.0		P	80 - 120
Atrazine Desethyl	89.4		P	80 - 120
Azinphos Methyl	97.4		P	80 - 120
Azoxystrobin	99.7		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	100		P	80 - 120
Caffeine	84.9		P	80 - 120
Carbophenothion	107		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	103		P	80 - 120
Chlorpyrifos Ethyl	105		P	80 - 120
Chlorpyrifos Methyl	98.5		P	80 - 120
Coumaphos	95.1		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	109		P	80 - 120
Demeton	93.2		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	93.5		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	103		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	103		P	80 - 120
Ethion	96.5		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	94.8		P	80 - 120
Fenamiphos	99.7		P	80 - 120
Fenbuconazole	96.0		P	80 - 120
Fipronil	105		P	80 - 120
Fipronil Sulfide	105		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	99.7		P	80 - 120
Flumioxazin	91.5		P	80 - 120
Flutolanil	103		P	80 - 120
Fluxapyroxad	98.3		P	80 - 120
Fonofos	105		P	80 - 120
Hexazinone	108		P	80 - 120
Imazalil	102		P	80 - 120
Iprodione	102		P	80 - 120
Loratadine	108		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	117		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	106		P	80 - 120
Myclobutanil	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110796

Included Lab Sample IDs: 2308511, 2308512

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naled	103		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	98.7		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	109		P	80 - 120
Parathion Ethyl	99.6		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	93.4		P	80 - 120
Phenytol	99.7		P	80 - 120
Phorate	107		P	80 - 120
Prodiamine	96.4		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	95.4		P	80 - 120
Propanil	103		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	95.9		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	95.8		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	96.0		P	80 - 120
Stirophos	98.9		P	80 - 120
Sulfentrazone	100		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	105		P	80 - 120
Terbutylazine	104		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	103		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110800

Included Lab Sample IDs: 2308513, 2308514, 2308515, 2308516

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Iron	101	102	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Strontium	95.1	95.7	P/P	90 - 110
Tin	96.1	96.1	P/P	90 - 110
Titanium	94.5	94.8	P/P	90 - 110
Vanadium	95.5	95.8	P/P	90 - 110
Zinc	98.7	98.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110810

Included Lab Sample IDs: 2308510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	106		P	80 - 120
PCB-1260	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110811

Included Lab Sample IDs: 2308473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.7	95.6	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110830

Included Lab Sample IDs: 2308464

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.8	99.4	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110830

Included Lab Sample IDs: 2308464

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110831

Included Lab Sample IDs: 2308466

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

Reference Method: SM 5310 B-2011

Run ID: A110833

Included Lab Sample IDs: 2308465, 2308469, 2308472, 2308473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	99.0	P/P	90 - 110
Organic Carbon	94.8	101	P/P	90 - 110
Organic Carbon	99.0	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110852

Included Lab Sample IDs: 2308465, 2308469, 2308472, 2308473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	102	P/P	90 - 110
NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110854

Included Lab Sample IDs: 2308467

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110861

Included Lab Sample IDs: 2308511, 2308512

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	103		P	80 - 120
Caffeine	95.5		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Flutolanil	106		P	80 - 120
Hexazinone	103		P	80 - 120
Oxadiazon	105		P	80 - 120
Sulfentrazone	109		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110899

Included Lab Sample IDs: 2308467

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.9	96.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110914

Included Lab Sample IDs: 2308511, 2308512

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	107		P	80 - 120
Octinoxate	110		P	80 - 120
Oxybenzone	113		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110930

Included Lab Sample IDs: 2308465, 2308469

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

Reference Method: EPA 8270E

Run ID: A110957

Included Lab Sample IDs: 2308510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin	105		P	80 - 120
Methoprene	102		P	80 - 120
Piperonyl Butoxide	96.6		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110972

Included Lab Sample IDs: 2308510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	97.4		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	97.2		P	80 - 120
Beta-Cyfluthrin	105		P	80 - 120
Bifenthrin	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110972
Included Lab Sample IDs: 2308510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorothalonil	94.9		P	80 - 120
Cis-Nonachlor	96.6		P	80 - 120
Cypermethrin	102		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	105		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	98.5		P	80 - 120
Deltamethrin	93.4		P	80 - 120
Dichlobenil	98.3		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	98.7		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	93.8		P	80 - 120
Endrin Aldehyde	99.6		P	80 - 120
Endrin Ketone	91.1		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfuralin	99.5		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	99.8		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	99.6		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	99.7		P	80 - 120
Kepone	76.8*		F	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoxychlor	99.4		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	99.0		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	105		P	80 - 120
Prallethrin	98.3		P	80 - 120
Tau-Fluvalinate	104		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	105		P	80 - 120
Triclosan Methyl	105		P	80 - 120
Trifluralin	98.5		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A111000
Included Lab Sample IDs: 2308472, 2308473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	100	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 200.7 Rev. 4.4	Calcium	106					2.18
	Iron	107	100	105			4.34
	Magnesium	103					0.173
	Strontium	103					3.06
	Tin	104					
	Titanium	102	97.6	105			6.81
	Vanadium	96.3	97.6	101			3.33
	Zinc	104	97.0	101			4.41
EPA 200.8 Rev. 5.4	Aluminum	93.1	103	103			0.400
	Antimony	92.2	100	99.9			0.306
	Arsenic	93.2	105	105			0.526
	Beryllium	86.7	96.3	99.9			3.65
	Cadmium	91.7	90.5	89.5			1.11
	Chromium	88.3	95.2	95.9			0.771
	Cobalt	92.3	111	111			0.308
	Copper	90.2	97.9	97.5			0.378
	Lead	88.6	104	104			0.227
	Manganese	90.1	94.6	94.3			0.283
	Molybdenum	92.2	78.5	71.3			3.97
	Nickel	91.8	108	108			0.289
	Selenium	91.9	92.4	92.6			0.228
	Silver	96.9	89.4	89.3			0.105
	Thallium	92.3	109	110			0.273
EPA 300.0 Rev. 2.1	Chloride	100	99.0	97.1		2.10	
	Sulfate	101	97.1	98.9		0.525	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	95.2	95.2			0.0
	Ammonia-N	99.8	98.4	100			1.49
	Ammonia-N	99.2	96.8	98.4			1.53
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.8	96.1	98.0			1.96
	Kjeldahl Nitrogen	94.6	97.2	95.6			1.50
	Kjeldahl Nitrogen	95.0	86.0	93.5			7.60
EPA 353.2 Rev. 2.0	NO2NO3-N	102	102	102			0.491
	NO2NO3-N	102	103	102			0.487
	NO2NO3-N	99.0	97.9	99.4			1.15
EPA 365.1 Rev. 2.0	Total-P	99.4	97.2	97.0			0.123
	Total-P	98.0	106	101			3.56
	Total-P	99.8	92.6	93.6			0.973
EPA 8270E	Acetochlor	90.2	93.4	92.0			1.55
	Alachlor	83.5	86.5	81.9			5.42
	Aldrin	57.9	47.3	44.4			6.38
	Alpha-BHC	96.4	87.0	82.3			5.52
	Alpha-Chlordane	86.8	74.8	69.6			7.13
	Ametryn	100	99.2	94.3			5.01
	Atrazine	87.8	88.1	85.9			2.01
	Atrazine Desethyl	63.7	51.0	48.0			4.81
	Avobenzone	144	141	150			6.02
	Azinphos Methyl	112	119	115			3.10
	Azoxystrobin	106	104	90.2			14.1
	Beta-BHC	110	101	96.2			4.64
	Beta-Cyfluthrin	105	104	101			2.64
	Bifenthrin	93.5	81.2	81.4			0.265
	Bromacil	84.8	73.9	74.9			1.45
	Butylate	50.1	52.6	47.0			11.2
	Caffeine	79.9	76.5	80.5			5.16

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Carbophenothion	99.3	92.5	84.7			8.79
	Carfentrazone Ethyl	96.9	97.6	95.8			1.94
	Chlorfenapyr	94.6	93.6	95.1			1.49
	Chlorothalonil	54.3	154	159			3.02
	Chlorpyrifos Ethyl	85.3	78.1	74.7			4.46
	Chlorpyrifos Methyl	92.8	87.9	82.8			6.00
	Cis-Nonachlor	79.6	65.5	56.8			14.1
	Coumaphos	85.4	80.1	77.2			3.77
	Cyanazine	88.9	95.8	96.2			0.404
	Cypermethrin	114	115	102			12.3
	Cyprodinil	107	112	108			4.27
	Dacthal	98.2	83.9	81.9			2.43
	DDD-p,p'	82.2	68.1	65.8			3.49
	DDE-p,p'	82.9	66.3	64.0			3.49
	DDT-p,p'	87.3	73.3	70.4			4.04
	Delta-BHC	117	112	105			6.02
	Deltamethrin	71.3	56.0	62.1			10.4
	Demeton	99.9	101	98.6			2.39
	Diazinon	90.2	93.5	92.3			1.19
	Dichlobenil	93.6	74.9	75.3			0.531
	Dicofol	92.7	78.7	72.6			8.11
	Dieldrin	76.9	69.6	61.0			12.1
	Difenoconazole	87.2	97.6	91.0			6.96
	Dimethenamid	75.1	77.3	78.1			1.05
	Dimethomorph	178	166	156			6.08
	Disulfoton	85.0	93.1	84.3			10.0
	Dithiopyr	72.5	75.1	73.1			2.62
	Endosulfan I	85.3	70.9	65.9			7.31
	Endosulfan II	88.5	75.2	70.4			6.66
	Endosulfan Sulfate	101	83.0	71.1			15.5
	Endrin	57.8	79.0	68.2			14.7
	Endrin Aldehyde	62.1	22.9	34.0			39.2
	Endrin Ketone	177	126	139			10.2
	EPTC	48.6	61.2	45.6			29.1
	Esfenvalerate	106	97.1	94.2			2.95
	Ethalfuralin	81.5	68.2	66.0			3.29
	Ethion	64.5	59.7	73.2			20.2
	Ethoprop	80.9	82.3	79.2			3.80
	Etridiazole	51.5	59.6	51.4			14.7
	Fenamiphos	86.7	92.9	79.7			15.3
	Fenbuconazole	78.6	83.5	81.0			2.95
	Fenpropathrin	74.4	75.9	74.7			1.59
	Fipronil	95.2	103	101			1.14
	Fipronil Desulfinyl	101	99.4	105			5.59
	Fipronil Sulfide	86.6	87.7	86.4			1.54
	Fipronil Sulfone	70.7	60.2	67.6			8.22
	Fluazifop-P-butyl	90.0	88.9	88.3			0.652
	Fludioxonil	82.0	81.8	84.4			3.08
	Flumioxazin	73.0	97.7	80.5			19.4
	Flutolanil	92.5	86.9	90.2			3.74
	Fluxapyroxad	70.5	72.6	75.3			3.72
	Fonofos	78.8	80.2	73.9			8.18
	Gamma-BHC	99.9	89.8	87.0			3.14
	Gamma-Chlordane	85.0	73.0	71.3			2.32

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Heptachlor	78.9	68.7	64.2		6.71
	Heptachlor Epoxide	95.9	96.4	76.9		22.6
	Hexachlorobenzene	83.9	72.6	69.5		4.35
	Hexazinone	83.7	90.4	84.7		6.46
	Imazalil	76.1	76.7	73.3		4.46
	Iprodione	82.8	85.9	83.5		2.81
	Kepone	155	142	135		4.95
	Lambda-Cyhalothrin	102	104	117		12.1
	Loratadine	160	148	139		6.06
	Malathion	84.8	77.6	75.1		3.20
	Metalaxyl	83.0	85.2	86.3		1.25
	Methoprene	23.9	63.7	64.9		1.86
	Methoxychlor	108	100	91.5		9.11
	Metolachlor	81.5	81.5	79.8		2.08
	Metribuzin	94.4	84.3	87.8		4.12
	Mevinphos	81.7	76.6	78.5		2.51
	MGK-264	77.9	65.4	65.5		0.193
	Mirex	68.4	64.3	60.0		6.97
	Molinate	54.7	52.8	64.1		19.3
	Myclobutanil	89.5	76.1	82.8		8.49
	Naled	64.7	67.1	65.6		2.36
	Napropamide	82.0	81.7	75.8		7.40
	Norflurazon	81.9	77.8	83.1		6.57
	Octinoxate	114	118	123		3.38
	Oxadiazon	70.8	71.4	70.4		1.49
	Oxybenzone	119	127	133		4.97
	Oxychlordane	81.7	65.2	68.5		4.99
	Oxyfluorfen	103	110	112		1.50
	Parathion Ethyl	87.0	83.2	85.5		2.78
	Parathion Methyl	113	107	114		6.65
	PCB-1016	84.6	79.3	64.5		20.6
	PCB-1260	90.5	93.4	79.2		16.4
	Pendimethalin	96.9	96.2	107		10.5
	Permethrin	105	99.9	94.0		6.05
	Phenothrin	49.8	60.6	53.8		12.0
	Phenytoin	29.5	42.1	30.4		32.3
	Phorate	72.1	73.4	77.0		4.76
	Piperonyl Butoxide	80.4	84.6	69.5		15.5
	Prallethrin	40.2	44.7	46.2		3.21
	Prodiamine	62.9	40.2	41.9		4.00
	Prometon	91.7	92.7	101		8.22
	Prometryn	93.9	96.1	101		4.97
	Pronamide	92.3	90.4	95.4		5.28
	Propanil	118	111	113		1.88
	Propargite	66.9	70.4	70.5		0.142
	Propiconazole	85.6	80.7	90.1		10.9
	Pyraflufen Ethyl	83.2	76.2	82.5		7.95
	Pyridaben	90.3	69.1	90.0		26.3
	Pyriproxyfen	83.3	86.0	85.9		0.0974
	Simazine	91.9	88.6	90.7		2.33
	Stirophos	66.6	69.5	59.6		15.4
	Sulfentrazone	73.4				1.06
	Tau-Fluvalinate	94.0	99.7	96.5		3.22
	Tebuconazole	55.5	66.2	52.7		22.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Terbufos	97.5	93.3	101			7.85
	Terbutylazine	85.3	84.0	89.0			5.78
	Tetramethrin	18.2	37.5	42.7			13.1
	Thiobencarb	80.8	73.2	83.5			13.1
	Trans-Nonachlor	85.1	68.0	67.0			1.57
	Triadimefon	83.9	79.6	81.2			2.01
	Triclosan Methyl	87.6	69.2	65.5			5.56
	Trifluralin	82.4	71.0	67.4			5.18
EPA 8276	Chlordane	93.2	85.2	64.9			27.0
	Toxaphene	81.2	88.5	64.5			31.3
EPA 8321B	2,4-D	116	79.5	87.9			9.96
	2,4,5-T	90.7	69.8	78.4			11.5
	3-Hydroxycarbofuran	100	115	109			4.54
	Acesulfame K	99.8	101	101			0.540
	Acetaminophen	106	106	97.6			7.99
	Acetamiprid	120	90.0	96.5			6.92
	Afidopyropen	93.0	87.8	85.0			3.18
	Aldicarb	92.0	74.0	77.7			4.92
	Aldicarb Sulfone	117	107	112			4.47
	Aldicarb Sulfoxide	137	64.0	71.7			11.3
	AMPA	105	119	126			5.45
	Bentazon	109	60.8	65.4			3.70
	Benzovindiflupyr	124	87.4	96.3			9.65
	Carbamazepine	138	105	111			4.86
	Carbaryl	93.5	82.0	79.8			2.70
	Carbofuran	127	104	111			7.02
	Clothianidin	93.4	95.3	93.7			1.74
	Dinotefuran	115	154	123			22.3
	Diuron	104	70.9	65.7			6.67
	Endothall	92.3	93.8	93.7			0.107
	Fenuron	111	53.1	47.4			7.35
	Fluridone	102	104	91.1			11.6
	Glufosinate	111	103	114			10.2
	Glyphosate	98.3	92.6	99.0			6.70
	Hydrocodone	104	75.9	65.1			15.3
	Ibuprofen	106	113	85.2			28.0
	Imazapyr	104	142	112			15.1
	Imidacloprid	113	147	155			4.80
	Linuron	98.8	120	88.7			29.8
	Mandestrobin	125	107	105			2.30
	MCPP	110	99.9	96.7			3.32
	Methiocarb	82.5	90.2	83.7			7.53
	Methomyl	105	92.5	88.3			4.66
	Naproxen	73.1	62.8	67.6			7.40
	Oxamyl	114	102	98.3			3.86
	Primidone	117	89.6	106			17.1
	Propoxur	108	103	101			2.73
	Pyraclostrobin	96.1	101	94.6			6.77
	Silvex	83.9	76.2	78.0			2.22
	Sucralose	126	114	121			5.34
	Thiamethoxam	113	150	144			3.94
	Tolfenpyrad	43.0	50.4	48.4			4.07
	Triclopyr	85.8	66.2	71.8			8.13
SM 2320 B-2011	Total Alkalinity	98.6				0.0161	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 2320 B-2011	Total Alkalinity	94.8			1.50	
	Total Alkalinity	95.3			0.372	
	Total Alkalinity	99.0			0.538	
SM 2540 C-2011	TDS				3.31	
SM 4500 F-C-2011	Fluoride	98.5	98.0	97.5		0.498
	Fluoride	98.7	98.9	99.7		0.516
	Fluoride	103	101	102		0.953
	Fluoride	98.0	98.0	95.6		1.47
SM 5310 B-2011	Organic Carbon	96.0	96.2	96.0		0.0602
	Organic Carbon	97.2	97.2	99.4		1.80

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2308513, 2308514, 2308515, 2308516
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2308513, 2308514, 2308515, 2308516
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2308466
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2308466
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2308465, 2308467, 2308469, 2308472, 2308473
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2308465, 2308467, 2308469, 2308472, 2308473
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2308465, 2308467, 2308469, 2308472, 2308473
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2308465, 2308467, 2308469, 2308472, 2308473
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2308511, 2308512
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2308510
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2308511, 2308512
EPA 8270E	PCBs in water matrices by GC/MS/MS	2308510
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2308510
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2308508
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2308507, 2308509
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2308464, 2308466, 2308468, 2308470, 2308471
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2308466
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2308464, 2308466, 2308468, 2308470, 2308471
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2308464, 2308466, 2308468, 2308470, 2308471
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2308465, 2308467, 2308469, 2308472, 2308473

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 200.7 Rev. 4.4	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 21:35	Josef B Mick	2308513
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 21:43	Josef B Mick	2308513
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 21:51	Josef B Mick	2308514
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 21:59	Josef B Mick	2308514
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 22:07	Josef B Mick	2308515
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 22:16	Josef B Mick	2308515
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 22:24	Josef B Mick	2308516
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 22:32	Josef B Mick	2308516
EPA 200.8 Rev. 5.4	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 21:15	Alexander Thompson	2308513
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 21:25	Alexander Thompson	2308514
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 21:34	Alexander Thompson	2308515
	02/25/2022	03/04/2022 10:00	Megan Whitefoot	03/07/2022 21:44	Alexander Thompson	2308516
EPA 300.0 Rev. 2.1	02/25/2022			03/07/2022 21:17	James L Waggeberby	2308466
EPA 350.1 Rev. 2.0	02/25/2022			03/03/2022 11:19	Judith K. Clark	2308473
	02/25/2022			03/03/2022 11:39	Ping Hua	2308469
	02/25/2022			03/03/2022 11:41	Ping Hua	2308472
	02/25/2022			03/03/2022 12:28	Judith K. Clark	2308467
	02/25/2022			03/03/2022 12:46	Ping Hua	2308465
EPA 351.2 Rev. 2.0	02/25/2022	03/01/2022 10:02	Samantha L Bates	03/02/2022 11:56	Alexandra J Mattheus	2308465
	02/25/2022	03/01/2022 10:02	Samantha L Bates	03/02/2022 11:58	Alexandra J Mattheus	2308469
	02/25/2022	03/01/2022 10:02	Samantha L Bates	03/02/2022 12:00	Alexandra J Mattheus	2308472
	02/25/2022	03/01/2022 10:02	Samantha L Bates	03/02/2022 12:32	Alexandra J Mattheus	2308467
	02/25/2022	03/07/2022 11:17	Samantha L Bates	03/08/2022 14:16	Alexandra J Mattheus	2308473
EPA 353.2 Rev. 2.0	02/25/2022			03/09/2022 17:26	Nathaniel J Jones	2308465
	02/25/2022			03/09/2022 17:46	Nathaniel J Jones	2308469
	02/25/2022			03/09/2022 17:47	Nathaniel J Jones	2308472
	02/25/2022			03/09/2022 17:48	Nathaniel J Jones	2308473
	02/25/2022			03/10/2022 09:37	Beverly Y. Sanders	2308467
EPA 365.1 Rev. 2.0	02/25/2022	03/11/2022 12:25	Simonne.V. Calhoun	03/11/2022 17:26	Sarah A Nixon	2308467
	02/25/2022	03/11/2022 12:25	Simonne.V. Calhoun	03/14/2022 14:41	James L Waggeberby	2308465
	02/25/2022	03/11/2022 12:25	Simonne.V. Calhoun	03/14/2022 14:42	James L Waggeberby	2308469
	02/25/2022	03/14/2022 15:55	Simonne.V. Calhoun	03/16/2022 12:53	James L Waggeberby	2308473
	02/25/2022	03/14/2022 15:55	Simonne.V. Calhoun	03/16/2022 12:54	James L Waggeberby	2308472
EPA 8270E	02/25/2022	02/28/2022 08:00	Fe-Val Siddell	03/05/2022 03:56	Michael Poppell	2308511
	02/25/2022	02/28/2022 08:00	Fe-Val Siddell	03/05/2022 04:22	Michael Poppell	2308512
	02/25/2022	02/28/2022 08:00	Fe-Val Siddell	03/09/2022 22:54	Michael Poppell	2308511
	02/25/2022	02/28/2022 08:00	Fe-Val Siddell	03/09/2022 23:19	Michael Poppell	2308512
	02/25/2022	02/28/2022 08:00	Fe-Val Siddell	03/11/2022 21:25	Lipi Saha	2308511
	02/25/2022	02/28/2022 08:00	Fe-Val Siddell	03/11/2022 21:50	Lipi Saha	2308512
	02/25/2022	03/02/2022 08:30	Rasheda Ghaffari	03/07/2022 22:22	Julie Wi	2308510

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	02/25/2022	03/02/2022 08:30	Rasheda Ghaffari	03/08/2022 22:33	Julie Wi	2308510
	02/25/2022	03/10/2022 08:00	Julie Wi	03/15/2022 21:00	Julie Wi	2308510
EPA 8276	02/25/2022	03/02/2022 08:30	Rasheda Ghaffari	03/05/2022 07:03	Arthur Maknenko	2308510
EPA 8321B	02/25/2022	03/01/2022 10:35	Umesh Chiluwal	03/01/2022 13:06	Umesh Chiluwal	2308507
	02/25/2022	03/01/2022 10:35	Umesh Chiluwal	03/01/2022 14:54	Umesh Chiluwal	2308509
	02/25/2022	03/01/2022 10:35	Umesh Chiluwal	03/01/2022 15:50	Umesh Chiluwal	2308507
	02/25/2022	03/01/2022 10:35	Umesh Chiluwal	03/01/2022 16:05	Umesh Chiluwal	2308509
	02/25/2022	03/02/2022 09:00	June Rhew	03/03/2022 00:38	Juyoung Kim	2308508
	02/25/2022	03/02/2022 09:00	June Rhew	03/03/2022 05:15	Juyoung Kim	2308507
	02/25/2022	03/02/2022 09:00	June Rhew	03/03/2022 05:50	Juyoung Kim	2308509
	02/25/2022			03/03/2022 06:07	Dale L. Simmons	2308466
SM 2320 B-2011	02/25/2022			03/04/2022 11:41	Dale L. Simmons	2308468
	02/25/2022			03/04/2022 11:55	Dale L. Simmons	2308470
	02/25/2022			03/04/2022 14:22	Dale L. Simmons	2308471
	02/25/2022			03/08/2022 22:20	Dale L. Simmons	2308464
	02/25/2022			03/02/2022 14:21	Yijie Li	2308466
SM 2540 C-2011	02/25/2022			03/02/2022 14:26	Yijie Li	2308464, 2308466, 2308468, 2308470, 2308471
SM 2540 D-2011	02/25/2022					
SM 4500 F-C-2011	02/25/2022			03/03/2022 06:07	Dale L. Simmons	2308466
	02/25/2022			03/04/2022 05:41	Dale L. Simmons	2308468
	02/25/2022			03/04/2022 05:46	Dale L. Simmons	2308470
	02/25/2022			03/04/2022 12:56	Dale L. Simmons	2308471
	02/25/2022			03/08/2022 22:20	Dale L. Simmons	2308464
SM 5310 B-2011	02/25/2022			03/02/2022 05:46	Khloe J Berg	2308467
	02/25/2022			03/08/2022 13:14	Khloe J Berg	2308465
	02/25/2022			03/08/2022 17:52	Khloe J Berg	2308472
	02/25/2022			03/08/2022 18:32	Khloe J Berg	2308469
	02/25/2022			03/08/2022 19:41	Khloe J Berg	2308473