

Chemical Analysis Report

WAS-SECT-2021-12-06-01

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

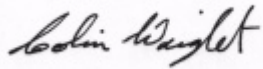
Event Description: **Merrit's Mill Pond BMAP**
Request ID: **RQ-2021-12-06-27**
Customer: **WAS-SECT**
Project ID: **BMAP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 28-DEC-2021 09:34



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: Merritt's Mill Pond 500 meters upstream of Dam Collection Date/Time: 12/06/2021 09:52

Field ID: G2WA0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293205	EPA 180.1 Rev. 2.0	Turbidity	0.60		NTU	P407146	
	EPA 300.0 Rev. 2.1	Chloride	5.3		mg Cl/L	P407362	
		Sulfate	1.5		mg SO4/L	P407365	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P407133	
	SM 2320 B-2011	Total Alkalinity	122		mg CaCO3/L	P407287	
	SM 2540 C-2011	TDS	159		mg/L	P407670	
	SM 2540 D-2011	TSS	2	U	mg/L	P407692	
	SM 4500 F-C-2011	Fluoride	0.040	I	mg F/L	P407293	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.056		mg N/L	P407749	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.16	I	mg N/L	P407461	
2293206	EPA 353.2 Rev. 2.0	NO2NO3-N	3.0		mg N/L	P407180	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P407126	
	SM 5310 B-2011	Organic Carbon	0.87	I	mg C/L	P407413	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.009	I	mg P/L	P407118	
	dissolved						
2293212	EPA 8321B	Aldicarb	0.020	U	ug/L	P407195	
		Aldicarb Sulfone	0.0020	U	ug/L	P407195	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P407195	
		Carbaryl	0.0020	U	ug/L	P407195	
		Carbofuran	0.0020	U	ug/L	P407195	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P407195	
		Methiocarb	0.0020	U	ug/L	P407195	
		Methomyl	0.0020	U	ug/L	P407195	
		Oxamyl	0.0020	U	ug/L	P407195	
		Propoxur	0.0020	U	ug/L	P407195	
2293213		2,4-D	0.0020	U	ug/L	P407196	
		Acesulfame K	0.10	U	ug/L	P406989	
		2,4,5-T	0.0040	U	ug/L	P407196	
		AMPA	0.10	U	ug/L	P406989	
		Acetaminophen	0.0080	U	ug/L	P407196	
		Acetamiprid	0.0020	U	ug/L	P407196	
		Endothall	0.25	U	ug/L	P406989	
		Glufosinate	0.10	U	ug/L	P406989	
		Glyphosate	0.10	U	ug/L	P406989	
		Afidopyropen	0.0020	U	ug/L	P407196	
		Bentazon	0.0016	I	ug/L	P407196	
		Sucralose	0.010	U	ug/L	P406989	
		Benzovindiflupyr	0.0020	U	ug/L	P407196	
		Carbamazepine	8.0E-04	U	ug/L	P407196	
		Clothianidin	0.0020	U	ug/L	P407196	
		Dinotefuran	0.0024	I	ug/L	P407196	
		Diuron	0.0020	U	ug/L	P407196	
		Fenuron	0.016	U	ug/L	P407196	
		Fluridone	8.0E-04	U	ug/L	P407196	

Field ID: G2WA0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293213	EPA 8321B	Imazapyr	0.0045	I	ug/L	P407196	
		Hydrocodone	0.0020	U	ug/L	P407196	
		Ibuprofen	0.020	U	ug/L	P407196	
		Imidacloprid	0.0020	U	ug/L	P407196	
		Linuron	0.0040	U	ug/L	P407196	
		Mandestrobin	0.0020	U	ug/L	P407196	
		MCP	0.0040	U	ug/L	P407196	
		Naproxen	0.0080	UJ	ug/L	P407196	RPD
		Primidone	0.0040	U	ug/L	P407196	
		Pyraclostrobin	0.0020	U	ug/L	P407196	
		Silvex	0.0040	U	ug/L	P407196	
		Thiamethoxam	0.0020	U	ug/L	P407196	
		Tolfenpyrad	0.0020	U	ug/L	P407196	
		Triclopyr	0.0040	U	ug/L	P407196	
2293214	EPA 8270E	Aldrin	0.70	UJ	ng/L	P407105	LCS
		Alpha-BHC	0.11	U	ng/L	P407105	
		Alpha-Chlordane	0.22	U	ng/L	P407105	
		Beta-BHC	0.11	U	ng/L	P407105	
		Beta-Cyfluthrin**	1.4	U	ng/L	P407105	
		Bifenthrin**	0.54	U	ng/L	P407105	
		Chlorothalonil	0.54	UJ	ng/L	P407105	RPD
		Cis-Nonachlor**	0.22	U	ng/L	P407105	
		Cypermethrin	1.6	U	ng/L	P407105	
		Dacthal**	0.16	U	ng/L	P407105	
		DDD-p,p'	0.27	U	ng/L	P407105	
		DDE-p,p'	0.22	U	ng/L	P407105	
		DDT-p,p'	0.27	U	ng/L	P407105	
		Delta-BHC	0.43	U	ng/L	P407105	
		Deltamethrin**	1.4	U	ng/L	P407105	
		Dichlobenil**	0.11	UJ	ng/L	P407105	LCS
		Dicofol	1.4	U	ng/L	P407105	
		Dieldrin	0.43	U	ng/L	P407105	
		Endosulfan I	0.43	U	ng/L	P407105	
		Endosulfan II	0.43	U	ng/L	P407105	
		Endosulfan Sulfate	0.33	U	ng/L	P407105	
		Endrin	0.43	U	ng/L	P407105	
		Endrin Aldehyde	0.81	U	ng/L	P407105	
		Endrin Ketone	0.43	U	ng/L	P407105	
		Esfenvalerate**	0.81	U	ng/L	P407105	
		Ethalfuralin**	0.16	U	ng/L	P407105	
		Fenprothrin**	0.27	U	ng/L	P407105	
		Gamma-BHC	0.14	U	ng/L	P407105	
		Gamma-Chlordane	0.22	U	ng/L	P407105	
		Heptachlor	0.22	U	ng/L	P407105	
		Heptachlor Epoxide	0.27	U	ng/L	P407105	

Field ID: G2WA0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293214	EPA 8270E	Hexachlorobenzene	1.1	U	ng/L	P407105	CCV
		Kepone**	5.4	UJ	ng/L	P407105	
		Lambda-Cyhalothrin**	0.81	U	ng/L	P407105	
		Methoprene**	0.81	U	ng/L	P407105	
		Methoxychlor	0.33	U	ng/L	P407105	
		MGK-264**	0.22	U	ng/L	P407105	
		Mirex	0.76	U	ng/L	P407105	
		Oxychlordane**	0.33	U	ng/L	P407105	
		Permethrin	1.7	U	ng/L	P407105	
		Phenothrin**	0.98	U	ng/L	P407105	
		Piperonyl Butoxide**	0.16	U	ng/L	P407105	
		Prallethrin**	2.2	U	ng/L	P407105	
		Tau-Fluvalinate**	0.27	U	ng/L	P407105	
		Tetramethrin**	0.81	U	ng/L	P407105	
		Trans-Nonachlor**	0.22	U	ng/L	P407105	
		Triclosan Methyl**	0.16	U	ng/L	P407105	
		Trifluralin	0.22	U	ng/L	P407105	
		Chlordane	2.7	U	ng/L	P407105	
		Toxaphene	16	U	ng/L	P407105	
2293215	EPA 8270E	Acetochlor	0.24	U	ng/L	P407237	MS
		Alachlor	0.24	U	ng/L	P407237	
		Ametryn	0.57	U	ng/L	P407237	
		Atrazine	1.1		ng/L	P407237	
		Atrazine Desethyl	1.4	U	ng/L	P407237	
		Azinphos Methyl	1.9	U	ng/L	P407237	
		Azoxystrobin**	0.48	U	ng/L	P407237	
		Bromacil	0.48	U	ng/L	P407237	
		Butylate	0.38	U	ng/L	P407237	
		Caffeine**	7.1	UJ	ng/L	P407237	
		Carbophenothion	0.48	U	ng/L	P407237	
		Carfentrazone Ethyl**	0.095	U	ng/L	P407237	
		Chlorfenapyr**	0.17	U	ng/L	P407237	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P407237	
		Chlorpyrifos Methyl	0.048	U	ng/L	P407237	
		Coumaphos**	0.48	U	ng/L	P407237	
		Cyanazine	3.1	U	ng/L	P407237	
		Cyprodinil**	0.095	U	ng/L	P407237	
		Demeton	1.4	U	ng/L	P407237	
		Diazinon	0.12	U	ng/L	P407237	
		Difenoconazole**	0.57	U	ng/L	P407237	
		Dimethenamid**	0.095	U	ng/L	P407237	
		Dimethomorph**	0.17	U	ng/L	P407237	
		Disulfoton	0.48	U	ng/L	P407237	
		Dithiopyr**	0.17	U	ng/L	P407237	
		EPTC	1.2	U	ng/L	P407237	

Field ID: G2WA0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293215	EPA 8270E	Ethion	0.14	U	ng/L	P407237	
		Ethoprop	0.095	U	ng/L	P407237	
		Etridiazole**	0.14	U	ng/L	P407237	
		Fenamiphos	0.48	U	ng/L	P407237	
		Fenbuconazole**	0.12	U	ng/L	P407237	
		Fipronil	0.24	U	ng/L	P407237	
		Fipronil Desulfinyll**	0.12	U	ng/L	P407237	
		Fipronil Sulfide	0.14	U	ng/L	P407237	
		Fipronil Sulfone	0.14	U	ng/L	P407237	
		Fluazifop-P-butyl**	0.095	U	ng/L	P407237	
		Fludioxonil**	0.12	U	ng/L	P407237	
		Flumioxazin**	1.7	U	ng/L	P407237	
		Flutolanil**	0.12	I	ng/L	P407237	
		Fluxapyroxad**	0.21	I	ng/L	P407237	
		Fonofos	0.19	U	ng/L	P407237	
		Hexazinone	4.4		ng/L	P407237	
		Imazalil**	0.71	U	ng/L	P407237	
		Iprodione**	0.57	UJ	ng/L	P407237	LCS
		Loratadine**	0.095	U	ng/L	P407237	
		Malathion	0.33	U	ng/L	P407237	
		Metalaxyl	0.71	U	ng/L	P407237	
		Metolachlor	6.7		ng/L	P407237	
		Metribuzin	3.1	U	ng/L	P407237	
		Mevinphos	1.0	U	ng/L	P407237	
		Molinate	0.29	U	ng/L	P407237	
		Myclobutanil**	0.24	U	ng/L	P407237	
		Naled**	1.4	UJ	ng/L	P407237	LCS
		Napropamide**	0.38	U	ng/L	P407237	
		Norflurazon	0.48	U	ng/L	P407237	
		Oxadiazon	0.29	U	ng/L	P407237	
		Oxyfluorfen**	0.14	U	ng/L	P407237	
		Parathion Ethyl	0.24	U	ng/L	P407237	
		Parathion Methyl	0.52	U	ng/L	P407237	
		Pendimethalin	0.95	U	ng/L	P407237	
		Phenytol**	3.3	U	ng/L	P407237	
		Phorate	0.50	UJ	ng/L	P407237	MS, RPD
		Prodiamine**	0.17	U	ng/L	P407237	
		Prometon	0.86	UJ	ng/L	P407237	LCS
		Prometryn	0.19	U	ng/L	P407237	
		Pronamide**	0.14	U	ng/L	P407237	
		Propanil**	0.12	U	ng/L	P407237	
		Propargite**	1.4	U	ng/L	P407237	
		Propiconazole**	0.48	U	ng/L	P407237	
		Pyraflufen Ethyl**	0.24	U	ng/L	P407237	
		Pyridaben**	0.43	U	ng/L	P407237	

Field ID: G2WA0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293215	EPA 8270E	Pyriproxyfen**	0.12	U	ng/L	P407237	LCS, MS
		Simazine	0.48	U	ng/L	P407237	
		Stirophos**	0.12	U	ng/L	P407237	
		Sulfentrazone**	0.48	U	ng/L	P407237	
		Tebuconazole**	0.48	UJ	ng/L	P407237	
		Terbufos	0.095	U	ng/L	P407237	
		Terbuthylazine	0.40	U	ng/L	P407237	
		Thiobencarb**	0.57	U	ng/L	P407237	
		Triadimefon**	0.24	U	ng/L	P407237	
2293219	EPA 200.7 Rev. 4.4	Calcium	51.6		mg/L	P407239	
		Iron	30	U	ug/L	P407239	
		Magnesium	2.90		mg/L	P407239	
		Potassium	0.46	I	mg/L	P407239	
		Sodium	2.1		mg/L	P407239	
		Strontium	41.6		ug/L	P407239	
		Tin	3.0	U	ug/L	P407239	
		Titanium	0.91	I	ug/L	P407239	
		Vanadium	2.0	U	ug/L	P407239	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P407239	
		Aluminum	5.0	U	ug/L	P407239	
		Antimony	0.050	U	ug/L	P407239	
		Arsenic	0.28		ug/L	P407239	
		Barium	7.31		ug/L	P407239	
		Beryllium	0.010	U	ug/L	P407239	
		Boron**	8.7		ug/L	P407239	
		Cadmium	0.020	U	ug/L	P407239	
		Chromium	0.90	I	ug/L	P407239	
		Cobalt	0.020	U	ug/L	P407239	
		Copper	0.40	U	ug/L	P407239	
		Lead	0.20	U	ug/L	P407239	
		Manganese	2.22		ug/L	P407239	
		Molybdenum	0.15	U	ug/L	P407239	
		Nickel	0.50	U	ug/L	P407239	
		Selenium	0.20	U	ug/L	P407239	
		Silver	0.010	U	ug/L	P407239	
		Thallium	0.10	U	ug/L	P407239	
	SM 2340B	Hardness	141		mg/L	P407239	

Ref. Method and Comment:

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

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

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

Sample Location: Merritt's Mill Pond mid under powerlines

Collection Date/Time: 12/06/2021 10:56

Field ID: G2WA0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293196	EPA 180.1 Rev. 2.0	Turbidity	0.60		NTU	P407146	
	EPA 300.0 Rev. 2.1	Chloride	5.3		mg Cl/L	P407362	
		Sulfate	1.5		mg SO4/L	P407365	
		Color (true)	2.5	U	PCU	P407133	
	SM 2320 B-2011	Total Alkalinity	125		mg CaCO3/L	P407287	
	SM 2540 C-2011	TDS	160		mg/L	P407670	
	SM 2540 D-2011	TSS	2	U	mg/L	P407692	
	SM 4500 F-C-2011	Fluoride	0.041	I	mg F/L	P407293	
2293199	EPA 350.1 Rev. 2.0	Ammonia-N	0.051		mg N/L	P407749	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.14	I	mg N/L	P407647	
	EPA 353.2 Rev. 2.0	NO2NO3-N	3.2		mg N/L	P407180	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P407123	
	SM 5310 B-2011	Organic Carbon	0.77	I	mg C/L	P407413	
2293202	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.015		mg P/L	P407118	
2293216	EPA 200.7 Rev. 4.4	Calcium	54.4		mg/L	P407239	
		Iron	30	U	ug/L	P407239	
		Magnesium	2.93		mg/L	P407239	
		Potassium	0.46	I	mg/L	P407239	
		Sodium	2.2		mg/L	P407239	
		Strontium	43.4		ug/L	P407239	
		Tin	3.0	U	ug/L	P407239	
		Titanium	0.90	I	ug/L	P407239	
	EPA 200.8 Rev. 5.4	Vanadium	2.0	U	ug/L	P407239	
		Zinc	5.0	U	ug/L	P407239	
		Aluminum	5.0	U	ug/L	P407239	
		Antimony	0.050	U	ug/L	P407239	
		Arsenic	0.29		ug/L	P407239	
		Barium	7.36		ug/L	P407239	
		Beryllium	0.010	U	ug/L	P407239	
		Boron**	8.2		ug/L	P407239	
		Cadmium	0.020	U	ug/L	P407239	
		Chromium	1.0	I	ug/L	P407239	
		Cobalt	0.020	U	ug/L	P407239	
		Copper	0.40	U	ug/L	P407239	
		Lead	0.20	U	ug/L	P407239	
		Manganese	0.86		ug/L	P407239	
		Molybdenum	0.15	U	ug/L	P407239	
		Nickel	0.50	U	ug/L	P407239	
		Selenium	0.22	I	ug/L	P407239	
		Silver	0.010	U	ug/L	P407239	
		Thallium	0.10	U	ug/L	P407239	
	SM 2340B	Hardness	148		mg/L	P407239	

Ref. Method and Comment:

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

Sample Location: Merritt's Mill Pond 600 meters downstream of Jackson Blue Sp

Collection Date/Time: 12/06/2021 11:21

Field ID: G2WA0007

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293197	EPA 180.1 Rev. 2.0	Turbidity	0.25		NTU	P407146	
	EPA 300.0 Rev. 2.1	Chloride	5.1		mg Cl/L	P407362	
		Sulfate	1.4		mg SO4/L	P407365	
		Color (true)	2.5	U	PCU	P407133	
	SM 2320 B-2011	Total Alkalinity	119		mg CaCO3/L	P407287	
	SM 2540 C-2011	TDS	166		mg/L	P407670	
	SM 2540 D-2011	TSS	2	U	mg/L	P407692	
	SM 4500 F-C-2011	Fluoride	0.036	I	mg F/L	P407293	
2293200	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P407749	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P407647	
	EPA 353.2 Rev. 2.0	NO2NO3-N	3.8		mg N/L	P407180	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P407123	
	SM 5310 B-2011	Organic Carbon	0.52	I	mg C/L	P407413	
2293203	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P407118	
2293217	EPA 200.7 Rev. 4.4	Calcium	51.7		mg/L	P407239	
		Iron	30	U	ug/L	P407239	
		Magnesium	2.51		mg/L	P407239	
		Potassium	0.43	I	mg/L	P407239	
		Sodium	2.0	I	mg/L	P407239	
		Strontium	38.4		ug/L	P407239	
		Tin	3.0	U	ug/L	P407239	
		Titanium	0.91	I	ug/L	P407239	
		Vanadium	2.0	U	ug/L	P407239	
		Zinc	5.0	U	ug/L	P407239	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P407239	
		Antimony	0.050	U	ug/L	P407239	
		Arsenic	0.26		ug/L	P407239	
		Barium	6.78		ug/L	P407239	
		Beryllium	0.012	I	ug/L	P407239	
		Boron**	8.0	I	ug/L	P407239	
		Cadmium	0.020	U	ug/L	P407239	
		Chromium	1.1	I	ug/L	P407239	
		Cobalt	0.020	U	ug/L	P407239	
		Copper	0.40	U	ug/L	P407239	
		Lead	0.20	U	ug/L	P407239	
		Manganese	0.18	I	ug/L	P407239	
		Molybdenum	0.15	U	ug/L	P407239	
		Nickel	0.50	U	ug/L	P407239	
		Selenium	0.23	I	ug/L	P407239	
		Silver	0.010	U	ug/L	P407239	
		Thallium	0.10	U	ug/L	P407239	
	SM 2340B	Hardness	139		mg/L	P407239	

Field ID: G2WA0007

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Shangri La Spring Vent

Collection Date/Time: 12/06/2021 12:37

Field ID: G2WA0022

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2293198	EPA 180.1 Rev. 2.0	Turbidity	0.35		NTU	P407146	
	EPA 300.0 Rev. 2.1	Chloride	5.2		mg Cl/L	P407362	
		Sulfate	1.6		mg SO4/L	P407365	
		Color (true)	2.5	U	PCU	P407133	
	SM 2320 B-2011	Total Alkalinity	131		mg CaCO3/L	P407287	
	SM 2540 C-2011	TDS	186	A	mg/L	P407670	
	SM 2540 D-2011	TSS	2	UA	mg/L	P407692	
	SM 4500 F-C-2011	Fluoride	0.040	I	mg F/L	P407293	
2293201	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P407749	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P407647	
	EPA 353.2 Rev. 2.0	NO2NO3-N	4.1		mg N/L	P407180	
	EPA 365.1 Rev. 2.0	Total-P	0.025		mg P/L	P407123	
	SM 5310 B-2011	Organic Carbon	0.51	I	mg C/L	P407413	
2293204	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.024		mg P/L	P407118	
2293218	EPA 200.7 Rev. 4.4	Calcium	59.2		mg/L	P407239	
		Iron	30	U	ug/L	P407239	
		Magnesium	2.14		mg/L	P407239	
		Potassium	0.43	I	mg/L	P407239	
		Sodium	2.0	I	mg/L	P407239	
		Strontium	44.8		ug/L	P407239	
		Tin	3.0	U	ug/L	P407239	
		Titanium	0.94	I	ug/L	P407239	
		Vanadium	2.0	U	ug/L	P407239	
		Zinc	5.0	U	ug/L	P407239	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P407239	
		Antimony	0.050	U	ug/L	P407239	
		Arsenic	0.22		ug/L	P407239	
		Barium	5.98		ug/L	P407239	
		Beryllium	0.010	U	ug/L	P407239	
		Boron**	8.2		ug/L	P407239	
		Cadmium	0.020	U	ug/L	P407239	
		Chromium	1.9		ug/L	P407239	
		Cobalt	0.020	U	ug/L	P407239	
		Copper	0.40	U	ug/L	P407239	
		Lead	0.20	U	ug/L	P407239	
		Manganese	0.18	I	ug/L	P407239	
		Molybdenum	0.15	U	ug/L	P407239	
		Nickel	0.50	U	ug/L	P407239	
		Selenium	0.20	U	ug/L	P407239	
		Silver	0.010	U	ug/L	P407239	
		Thallium	0.10	U	ug/L	P407239	
		Hardness	157		mg/L	P407239	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407146

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P407239

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407239

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407362

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407365

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407749

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407461

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407647

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407180

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407123

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407126

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407118

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

Reference Method: EPA 8270E
Batch ID: P407105

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P407105

Component	Result	Code	Units
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	0.50	U	ng/L
Chlorothalonil	0.50	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	0.10	U	ng/L
Dichlobenil	0.10	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P407105

Component	Result	Code	Units
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P407237

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P407237

Component	Result	Code	Units
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P407237

Component	Result	Code	Units
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
Metribuzin	3.2	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P407237

Component	Result	Code	Units
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P407105

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P406989

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

Reference Method: EPA 8321B

Batch ID: P407195

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

Reference Method: EPA 8321B

Batch ID: P407196

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	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
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P407196

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B-2011
Batch ID: P407133

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P407287

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

Reference Method: SM 2540 C-2011
Batch ID: P407670

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P407692

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P407293

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P407413

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: P407239

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	98.0		P	85 - 115
Iron	105		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	98.6		P	85 - 115
Sodium	103		P	85 - 115
Strontium	98.6		P	85 - 115
Tin	99.1		P	85 - 115
Titanium	98.5		P	85 - 115
Vanadium	97.5		P	85 - 115
Zinc	98.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P407239

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	101		P	85 - 115
Barium	107		P	85 - 115
Beryllium	99.9		P	85 - 115
Boron	97.6		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	104		P	85 - 115
Cobalt	103		P	85 - 115
Copper	102		P	85 - 115
Lead	98.3		P	85 - 115
Manganese	102		P	85 - 115
Molybdenum	103		P	85 - 115
Nickel	103		P	85 - 115
Selenium	98.3		P	85 - 115
Silver	101		P	85 - 115
Thallium	103		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P407362

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

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P407365

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P407749

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407461

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407647

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407180

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407123

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407126

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407118

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.2		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P407105

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	79.5	92.5	P/F	20 - 83.0
Alpha-BHC	82.2	93.4	P/P	74 - 108
Alpha-Chlordane	95.5	94.8	P/P	53 - 109
Beta-BHC	95.1	97.1	P/P	64 - 139
Beta-Cyfluthrin	102	97.6	P/P	27 - 171
Bifenthrin	87.6	92.8	P/P	20 - 124
Chlorothalonil	63.9	93.6	P/P	20 - 182
Cis-Nonachlor	102	104	P/P	46 - 110
Cypermethrin	83.3	96.3	P/P	35 - 160
Dacthal	99.6	98.1	P/P	70 - 115
DDD-p,p'	88.4	92.0	P/P	51 - 108
DDE-p,p'	99.4	99.3	P/P	51 - 104
DDT-p,p'	99.8	97.6	P/P	52 - 107
Delta-BHC	97.0	90.4	P/P	73 - 146
Deltamethrin	81.3	90.6	P/P	20 - 190
Dichlobenil	112	98.9	F/P	30 - 100

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P407105

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dicofol	74.6	84.5	P/P	52 - 110
Dieldrin	103	99.2	P/P	57 - 111
Endosulfan I	95.8	95.8	P/P	61 - 106
Endosulfan II	87.7	93.2	P/P	57 - 122
Endosulfan Sulfate	95.6	90.3	P/P	58 - 122
Endrin	82.1	90.8	P/P	34 - 125
Endrin Aldehyde	105	82.6	P/P	40 - 120
Endrin Ketone	91.8	95.8	P/P	51 - 138
Esfenvalerate	84.1	92.6	P/P	20 - 193
Ethalfuralin	85.5	93.9	P/P	51 - 99.0
Fenpropathrin	89.4	91.2	P/P	40 - 116
Gamma-BHC	88.2	94.2	P/P	74 - 116
Gamma-Chlordane	99.5	96.3	P/P	49 - 105
Heptachlor	71.9	93.5	P/P	45 - 98.0
Heptachlor Epoxide	96.6	99.3	P/P	61 - 106
Hexachlorobenzene	94.6	95.9	P/P	41 - 96.0
Kepone	30.5	33.3	P/P	27 - 179
Lambda-Cyhalothrin	82.4	92.4	P/P	20 - 199
Methoprene	93.1	98.9	P/P	20 - 134
Methoxychlor	83.5	93.9	P/P	61 - 111
MGK-264	104	98.5	P/P	20 - 124
Mirex	78.6	89.0	P/P	20 - 199
Oxychlordane	92.6	99.0	P/P	39 - 112
Permethrin	87.6	94.5	P/P	31 - 155
Phenothrin	84.5	92.3	P/P	20 - 100
Piperonyl Butoxide	88.2	90.2	P/P	20 - 144
Prallethrin	99.0	92.1	P/P	20 - 103
Tau-Fluvalinate	93.8	94.3	P/P	24 - 133
Tetramethrin	74.2	92.0	P/P	20 - 116
Trans-Nonachlor	101	98.8	P/P	49 - 105
Triclosan Methyl	101	99.9	P/P	60 - 111
Trifluralin	78.7	89.3	P/P	53 - 97.0

Reference Method: EPA 8270E

Batch ID: P407237

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	106	107	P/P	70 - 121
Alachlor	99.4	96.0	P/P	70 - 119
Ametryn	129	120	P/P	61 - 135
Atrazine	102	95.8	P/P	76 - 123
Atrazine Desethyl	72.2	63.2	P/P	35 - 140
Azinphos Methyl	85.4	84.5	P/P	57 - 163
Azoxystrobin	104	96.9	P/P	43 - 231
Bromacil	101	93.3	P/P	42 - 123
Butylate	55.0	50.3	P/P	34 - 92.0
Caffeine	83.1	77.6	P/P	70 - 130
Carbophenothion	97.6	81.7	P/P	61 - 121
Carfentrazone Ethyl	106	104	P/P	62 - 139
Chlorfenapyr	88.6	75.8	P/P	50 - 150
Chlorpyrifos Ethyl	91.7	78.2	P/P	67 - 121
Chlorpyrifos Methyl	102	84.8	P/P	67 - 120

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P407237

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Coumaphos	124	106	P/P	50 - 220
Cyanazine	124	100	P/P	20 - 226
Cyprodinil	131	121	P/P	50 - 150
Demeton	83.4	81.5	P/P	35 - 125
Diazinon	108	106	P/P	70 - 122
Difenoconazole	76.8	100	P/P	56 - 186
Dimethenamid	88.0	83.8	P/P	67 - 119
Dimethomorph	105	111	P/P	50 - 150
Disulfoton	103	83.4	P/P	47 - 120
Dithiopyr	101	99.4	P/P	67 - 118
EPTC	54.9	46.2	P/P	33 - 90.0
Ethion	93.1	77.8	P/P	40 - 133
Ethoprop	94.3	86.1	P/P	61 - 121
Etridiazole	58.9	55.5	P/P	50 - 150
Fenamiphos	108	93.2	P/P	31 - 139
Fenbuconazole	125	119	P/P	66 - 141
Fipronil	106	105	P/P	62 - 129
Fipronil Desulfinyl	102	104	P/P	59 - 126
Fipronil Sulfide	85.1	74.6	P/P	63 - 117
Fipronil Sulfone	95.3	82.0	P/P	57 - 117
Fluazifop-P-butyl	97.5	92.9	P/P	63 - 124
Fludioxonil	107	99.7	P/P	63 - 123
Flumioxazin	172	180	P/P	34 - 245
Flutolanil	95.7	91.4	P/P	56 - 131
Fluxapyroxad	115	109	P/P	57 - 117
Fonofos	99.5	78.0	P/P	61 - 116
Hexazinone	109	104	P/P	55 - 138
Imazalil	98.7	92.8	P/P	33 - 143
Iprodione	54.8	62.5	F/P	59 - 118
Loratadine	73.4	92.8	P/P	50 - 150
Malathion	103	90.5	P/P	62 - 138
Metalaxyl	94.6	92.5	P/P	24 - 147
Metolachlor	104	104	P/P	68 - 118
Metribuzin	110	103	P/P	20 - 239
Mevinphos	89.4	83.0	P/P	46 - 124
Molinate	68.1	58.8	P/P	46 - 100
Myclobutanil	103	97.4	P/P	32 - 149
Naled	101	89.1	F/P	32 - 95.0
Napropamide	98.7	93.6	P/P	50 - 150
Norflurazon	95.7	92.9	P/P	57 - 127
Oxadiazon	89.3	88.0	P/P	63 - 118
Oxyfluorfen	107	120	P/P	69 - 137
Parathion Ethyl	97.7	97.1	P/P	70 - 113
Parathion Methyl	111	106	P/P	71 - 130
Pendimethalin	80.3	82.7	P/P	55 - 118
Phenytol	103	95.1	P/P	50 - 200
Phorate	84.8	117	P/P	46 - 125
Prodiamine	86.7	90.9	P/P	20 - 141
Prometon	123	111	F/P	54 - 122
Prometryn	119	115	P/P	66 - 124
Pronamide	102	100	P/P	79 - 122
Propanil	108	97.3	P/P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P407237

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propargite	124	122	P/P	50 - 200
Propiconazole	104	100	P/P	61 - 126
Pyraflufen Ethyl	99.1	98.2	P/P	50 - 150
Pyridaben	126	129	P/P	50 - 200
Pyriproxyfen	58.9	59.7	P/P	52 - 131
Simazine	107	98.9	P/P	75 - 128
Stirophos	98.8	80.0	P/P	50 - 150
Sulfentrazone	108	110	P/P	20 - 132
Tebuconazole	117	109	F/P	20 - 116
Terbufos	111	96.6	P/P	61 - 117
Terbuthylazine	97.4	94.7	P/P	74 - 116
Thiobencarb	99.3	102	P/P	50 - 150
Triadimefon	99.1	93.9	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P407105

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	107	88.0	P/P	56 - 117
Toxaphene	116	87.6	P/P	45 - 116

Reference Method: EPA 8321B

Batch ID: P406989

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	68.7		P	40 - 150
AMPA	92.7		P	40 - 160
Endothall	77.6		P	40 - 150
Glufosinate	95.5		P	40 - 160
Glyphosate	94.3		P	40 - 160
Sucralose	75.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P407195

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	77.6		P	40 - 150
Aldicarb	66.8		P	30 - 150
Aldicarb Sulfone	92.4		P	40 - 150
Aldicarb Sulfoxide	99.3		P	40 - 150
Carbaryl	73.7		P	40 - 150
Carbofuran	95.7		P	40 - 150
Methiocarb	56.6		P	40 - 150
Methomyl	86.7		P	40 - 150
Oxamyl	92.7		P	40 - 150
Propoxur	94.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P407196

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	112		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P407196

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	125		P	40 - 150
Acetaminophen	87.8		P	30 - 150
Acetamiprid	88.4		P	40 - 150
Afidopyropen	67.1		P	40 - 150
Bentazon	87.3		P	30 - 150
Benzovindiflupyr	75.5		P	40 - 150
Carbamazepine	102		P	40 - 150
Clothianidin	74.4		P	40 - 150
Dinotefuran	85.7		P	40 - 150
Diuron	95.6		P	40 - 150
Fenuron	84.6		P	40 - 150
Fluridone	78.9		P	40 - 150
Hydrocodone	88.6		P	40 - 150
Ibuprofen	56.3		P	40 - 150
Imazapyr	84.7		P	40 - 150
Imidacloprid	90.5		P	40 - 150
Linuron	65.5		P	40 - 150
Mandestrobin	77.0		P	40 - 150
MCPP	101		P	40 - 150
Naproxen	91.1		P	40 - 150
Primidone	93.4		P	40 - 150
Pyraclostrobin	76.9		P	40 - 150
Silvex	85.5		P	40 - 150
Thiamethoxam	90.5		P	40 - 150
Tolfenpyrad	31.9		P	30 - 150
Triclopyr	125		P	40 - 150

Reference Method: SM 2120 B-2011

Batch ID: P407133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	90 - 110

Reference Method: SM 2320 B-2011

Batch ID: P407287

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.7		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P407293

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 5310 B-2011

Batch ID: P407413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P407239

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293216	Calcium	92.5		P	80 - 120
2293216	Iron	102	105	P/P	80 - 120
2293216	Magnesium	99.9	104	P/P	80 - 120
2293216	Potassium	96.0	96.3	P/P	80 - 120
2293216	Sodium	96.9	96.6	P/P	80 - 120
2293216	Strontium	94.6	95.0	P/P	80 - 120
2293216	Tin	97.3	96.8	P/P	80 - 120
2293216	Titanium	98.0	97.2	P/P	80 - 120
2293216	Vanadium	98.3	97.4	P/P	80 - 120
2293216	Zinc	96.8	95.5	P/P	80 - 120
2293846	Calcium	99.3		P	80 - 120
2293846	Iron	103		P	80 - 120
2293846	Magnesium	105		P	80 - 120
2293846	Potassium	94.3		P	80 - 120
2293846	Sodium	96.9		P	80 - 120
2293846	Strontium	96.6		P	80 - 120
2293846	Tin	98.3		P	80 - 120
2293846	Titanium	99.8		P	80 - 120
2293846	Vanadium	99.5		P	80 - 120
2293846	Zinc	99.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P407239

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293216	Aluminum	98.9	101	P/P	80 - 120
2293216	Antimony	103	104	P/P	80 - 120
2293216	Arsenic	102	101	P/P	80 - 120
2293216	Barium	108	106	P/P	80 - 120
2293216	Beryllium	104	101	P/P	80 - 120
2293216	Boron	94.2	94.4	P/P	80 - 120
2293216	Cadmium	103	105	P/P	80 - 120
2293216	Chromium	105	105	P/P	80 - 120
2293216	Cobalt	102	102	P/P	80 - 120
2293216	Copper	98.5	99.9	P/P	80 - 120
2293216	Lead	97.9	97.8	P/P	80 - 120
2293216	Manganese	103	105	P/P	80 - 120
2293216	Molybdenum	105	107	P/P	80 - 120
2293216	Nickel	102	101	P/P	80 - 120
2293216	Selenium	100	100	P/P	80 - 120
2293216	Silver	101	100	P/P	80 - 120
2293216	Thallium	105	105	P/P	80 - 120
2293846	Aluminum	103		P	80 - 120
2293846	Antimony	103		P	80 - 120
2293846	Arsenic	98.6		P	80 - 120
2293846	Barium	107		P	80 - 120
2293846	Beryllium	107		P	80 - 120
2293846	Boron	98.2		P	80 - 120
2293846	Cadmium	104		P	80 - 120
2293846	Chromium	106		P	80 - 120
2293846	Cobalt	102		P	80 - 120
2293846	Copper	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407239

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293846	Lead	98.5		P	80 - 120
2293846	Manganese	106		P	80 - 120
2293846	Molybdenum	104		P	80 - 120
2293846	Nickel	101		P	80 - 120
2293846	Selenium	97.8		P	80 - 120
2293846	Silver	101		P	80 - 120
2293846	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292967	Chloride	102		P	90 - 110
2293205	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407365

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292967	Sulfate	98.5		P	90 - 110
2293205	Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407749

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293200	Ammonia-N	96.8	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293206	Kjeldahl Nitrogen	98.9	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293199	Kjeldahl Nitrogen	98.3	97.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407180

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293192	NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2292905	Total-P	108	103	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P407126

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293228	Total-P	108	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P407118

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293204	O-Phosphate-P	97.7	99.2	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P407105

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293214	Aldrin	63.6	64.1	P/P	10 - 94.0
2293214	Alpha-BHC	89.5	89.3	P/P	71 - 108
2293214	Alpha-Chlordane	78.2	73.6	P/P	42 - 115
2293214	Beta-BHC	115	112	P/P	56 - 161
2293214	Beta-Cyfluthrin	85.8	76.4	P/P	46 - 190
2293214	Bifenthrin	72.9	67.4	P/P	19 - 126
2293214	Chlorothalonil	110	100	P/P	10 - 262
2293214	Cis-Nonachlor	76.2	68.5	P/P	44 - 112
2293214	Cypermethrin	77.6	73.3	P/P	40 - 178
2293214	Dacthal	95.3	92.6	P/P	60 - 119
2293214	DDD-p,p'	83.3	78.8	P/P	40 - 114
2293214	DDE-p,p'	77.3	73.6	P/P	22 - 125
2293214	DDT-p,p'	70.2	70.1	P/P	39 - 110
2293214	Delta-BHC	117	111	P/P	64 - 174
2293214	Deltamethrin	87.4	84.8	P/P	10 - 227
2293214	Dichlobenil	93.5	89.1	P/P	20 - 99.0
2293214	Dicofol	72.9	73.4	P/P	43 - 115
2293214	Dieldrin	85.4	82.4	P/P	31 - 131
2293214	Endosulfan I	83.3	80.0	P/P	52 - 110
2293214	Endosulfan II	96.2	91.6	P/P	53 - 127
2293214	Endosulfan Sulfate	102	97.9	P/P	44 - 135
2293214	Endrin	87.2	83.7	P/P	36 - 122
2293214	Endrin Aldehyde	86.1	85.1	P/P	23 - 115
2293214	Endrin Ketone	67.3	64.9	P/P	46 - 147
2293214	Esfenvalerate	79.2	73.2	P/P	25 - 217
2293214	Ethalfuralin	74.8	73.9	P/P	46 - 99.0
2293214	Fenpropathrin	79.3	76.7	P/P	42 - 121
2293214	Gamma-BHC	95.7	96.3	P/P	63 - 131
2293214	Gamma-Chlordane	77.7	73.9	P/P	40 - 108
2293214	Heptachlor	70.5	69.0	P/P	38 - 98.0
2293214	Heptachlor Epoxide	84.8	83.4	P/P	39 - 124
2293214	Hexachlorobenzene	73.8	72.0	P/P	37 - 96.0
2293214	Kepone	133	122	P/P	10 - 216
2293214	Lambda-Cyhalothrin	77.5	73.7	P/P	21 - 220
2293214	Methoprene	66.9	64.8	P/P	19 - 112
2293214	Methoxychlor	86.1	88.2	P/P	56 - 118
2293214	MGK-264	96.5	91.1	P/P	28 - 125
2293214	Mirex	56.6	54.1	P/P	10 - 203
2293214	Oxychlordane	75.4	74.9	P/P	46 - 92.0
2293214	Permethrin	77.3	72.8	P/P	42 - 173

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P407105

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293214	Phenothrin	70.3	67.5	P/P	10 - 140
2293214	Piperonyl Butoxide	99.9	94.1	P/P	10 - 158
2293214	Prallethrin	84.7	83.5	P/P	19 - 119
2293214	Tau-Fluvalinate	76.8	71.6	P/P	27 - 164
2293214	Tetramethrin	129	114	P/P	16 - 130
2293214	Trans-Nonachlor	74.8	70.4	P/P	43 - 105
2293214	Triclosan Methyl	84.8	83.7	P/P	50 - 113
2293214	Trifluralin	73.5	72.5	P/P	48 - 98.0

Reference Method: EPA 8270E

Batch ID: P407237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293215	Acetochlor	109	111	P/P	66 - 122
2293215	Alachlor	104	104	P/P	65 - 122
2293215	Ametryn	118	130	P/P	45 - 173
2293215	Atrazine	101	106	P/P	70 - 134
2293215	Atrazine Desethyl	71.0	71.9	P/P	25 - 150
2293215	Azinphos Methyl	85.7	99.9	P/P	44 - 174
2293215	Azoxystrobin	106	112	P/P	10 - 268
2293215	Bromacil	84.1	104	P/P	31 - 145
2293215	Butylate	55.9	72.9	P/P	15 - 97.0
2293215	Caffeine	138	104	F/P	70 - 130
2293215	Carbophenothion	84.3	91.8	P/P	42 - 129
2293215	Carfentrazone Ethyl	110	110	P/P	62 - 145
2293215	Chlorfenapyr	80.0	84.5	P/P	50 - 150
2293215	Chlorpyrifos Ethyl	81.2	87.3	P/P	60 - 124
2293215	Chlorpyrifos Methyl	92.1	99.6	P/P	66 - 119
2293215	Coumaphos	111	125	P/P	50 - 220
2293215	Cyanazine	106	116	P/P	17 - 225
2293215	Cyprodinil	132	130	P/P	50 - 150
2293215	Demeton	102	105	P/P	36 - 142
2293215	Diazinon	113	109	P/P	70 - 128
2293215	Difenoconazole	91.6	100	P/P	33 - 222
2293215	Dimethenamid	90.4	88.8	P/P	54 - 125
2293215	Dimethomorph	113	119	P/P	50 - 150
2293215	Disulfoton	96.7	95.3	P/P	49 - 133
2293215	Dithiopyr	103	104	P/P	55 - 123
2293215	EPTC	55.7	77.1	P/P	19 - 91.0
2293215	Ethion	78.7	87.1	P/P	13 - 143
2293215	Ethoprop	91.0	96.0	P/P	49 - 144
2293215	Etridiazole	63.7	77.7	P/P	50 - 150
2293215	Fenamiphos	87.0	97.6	P/P	32 - 136
2293215	Fenbuconazole	129	133	P/P	73 - 148
2293215	Fipronil	108	112	P/P	57 - 129
2293215	Fipronil Desulfinyl	104	103	P/P	49 - 127
2293215	Fipronil Sulfide	79.0	86.5	P/P	44 - 127
2293215	Fipronil Sulfone	89.2	96.0	P/P	35 - 126
2293215	Fluazifop-P-butyl	96.5	102	P/P	67 - 129
2293215	Fludioxonil	103	106	P/P	61 - 126
2293215	Flumioxazin	209	215	P/P	38 - 279
2293215	Flutolanil	92.6	96.4	P/P	55 - 136

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P407237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293215	Fluxapyroxad	119	122	P/P	33 - 140
2293215	Fonofos	93.2	101	P/P	58 - 125
2293215	Hexazinone	114	113	P/P	57 - 148
2293215	Imazalil	94.9	99.8	P/P	10 - 221
2293215	Iprodione	61.6	66.0	P/P	32 - 140
2293215	Loratadine	92.0	96.2	P/P	50 - 150
2293215	Malathion	92.4	97.8	P/P	52 - 138
2293215	Metalaxyl	96.2	96.5	P/P	46 - 134
2293215	Metolachlor	110	108	P/P	58 - 122
2293215	Metribuzin	110	111	P/P	16 - 272
2293215	Mevinphos	86.8	98.1	P/P	45 - 140
2293215	Molinate	68.6	82.2	P/P	41 - 103
2293215	Myclobutanil	103	105	P/P	60 - 134
2293215	Naled	88.3	101	P/P	20 - 113
2293215	Napropamide	102	101	P/P	50 - 150
2293215	Norflurazon	99.6	106	P/P	51 - 123
2293215	Oxadiazon	87.0	90.0	P/P	44 - 125
2293215	Oxyfluorfen	127	127	P/P	66 - 176
2293215	Parathion Ethyl	96.3	104	P/P	57 - 132
2293215	Parathion Methyl	113	120	P/P	59 - 156
2293215	Pendimethalin	85.9	89.7	P/P	59 - 129
2293215	Phenytoin	105	108	P/P	50 - 200
2293215	Phorate	167	104	F/P	47 - 136
2293215	Prodiamine	96.3	104	P/P	10 - 159
2293215	Prometon	122	124	P/P	59 - 127
2293215	Prometryn	122	125	P/P	59 - 129
2293215	Pronamide	104	112	P/P	65 - 145
2293215	Propanil	96.8	109	P/P	50 - 150
2293215	Propargite	125	126	P/P	50 - 200
2293215	Propiconazole	108	106	P/P	28 - 165
2293215	Pyraflufen Ethyl	94.3	98.3	P/P	50 - 150
2293215	Pyridaben	136	141	P/P	50 - 200
2293215	Pyriproxyfen	60.8	66.1	P/P	21 - 180
2293215	Simazine	103	106	P/P	63 - 147
2293215	Stirophos	84.6	93.4	P/P	50 - 150
2293215	Sulfentrazone	122	116	P/P	32 - 136
2293215	Tebuconazole	116	122	P/F	10 - 117
2293215	Terbufos	105	114	P/P	61 - 131
2293215	Terbutylazine	93.9	99.2	P/P	62 - 126
2293215	Thiobencarb	101	99.9	P/P	50 - 150
2293215	Triadimefon	96.6	99.8	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P407105

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293039	Chlordane	52.2	60.0	P/P	47 - 128
2293039	Toxaphene	70.8	73.3	P/P	11 - 163

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P406989

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293213	Acesulfame K	62.5	59.3	P/P	40 - 150
2293213	AMPA	92.4	99.1	P/P	40 - 160
2293213	Endothall	103	95.9	P/P	40 - 150
2293213	Glufosinate	93.3	109	P/P	40 - 160
2293213	Glyphosate	89.9	99.9	P/P	40 - 160
2293213	Sucralose	103	87.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P407195

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293917	3-Hydroxycarbofuran	101	94.6	P/P	40 - 150
2293917	Aldicarb	69.8	54.5	P/P	30 - 150
2293917	Aldicarb Sulfone	109	115	P/P	40 - 150
2293917	Aldicarb Sulfoxide	43.8	41.0	P/P	40 - 150
2293917	Carbaryl	67.1	63.7	P/P	40 - 150
2293917	Carbofuran	88.7	74.9	P/P	40 - 150
2293917	Methiocarb	71.7	57.4	P/P	40 - 150
2293917	Methomyl	88.6	83.1	P/P	40 - 150
2293917	Oxamyl	93.9	91.2	P/P	40 - 150
2293917	Propoxur	74.6	73.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P407196

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293213	2,4-D	114	110	P/P	40 - 150
2293213	2,4,5-T	137	124	P/P	40 - 150
2293213	Acetaminophen	89.7	89.3	P/P	30 - 150
2293213	Acetamiprid	87.1	77.2	P/P	40 - 150
2293213	Afidopyropen	77.4	58.6	P/P	40 - 150
2293213	Bentazon	98.2	95.1	P/P	30 - 150
2293213	Benzovindiflupyr	96.3	77.0	P/P	40 - 150
2293213	Carbamazepine	95.0	91.6	P/P	40 - 150
2293213	Clothianidin	89.3	114	P/P	40 - 150
2293213	Dinotefuran	91.8	99.0	P/P	40 - 150
2293213	Diuron	102	76.3	P/P	40 - 150
2293213	Fenuron	97.3	90.8	P/P	40 - 150
2293213	Fluridone	91.5	84.7	P/P	40 - 150
2293213	Hydrocodone	106	97.8	P/P	40 - 150
2293213	Ibuprofen	49.6	52.4	P/P	40 - 150
2293213	Imazapyr	110	99.4	P/P	40 - 150
2293213	Imidacloprid	91.8	99.4	P/P	40 - 150
2293213	Linuron	82.2	86.1	P/P	40 - 150
2293213	Mandestrobin	85.4	69.6	P/P	40 - 150
2293213	MCCP	114	99.2	P/P	40 - 150
2293213	Naproxen	109	43.9	P/P	40 - 150
2293213	Primidone	127	94.9	P/P	40 - 150
2293213	Pyraclostrobin	94.0	90.1	P/P	40 - 150
2293213	Silvex	103	99.4	P/P	40 - 150
2293213	Thiamethoxam	97.3	93.1	P/P	40 - 150
2293213	Tolfenpyrad	56.9	42.8	P/P	30 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P407196

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293213	Triclopyr	137	104	P/P	40 - 150

Reference Method: SM 4500 F-C-2011
Batch ID: P407293

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293857	Fluoride	101	101	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P407413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293022	Organic Carbon	92.8	93.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293191	Turbidity	1.60	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P407239

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293216	Calcium	0.991	Spike	P	0 - 20
2293216	Iron	2.63	Spike	P	0 - 20
2293216	Magnesium	2.21	Spike	P	0 - 20
2293216	Potassium	0.283	Spike	P	0 - 20
2293216	Sodium	0.153	Spike	P	0 - 20
2293216	Strontium	0.449	Spike	P	0 - 20
2293216	Tin	0.474	Spike	P	0 - 20
2293216	Titanium	0.756	Spike	P	0 - 20
2293216	Vanadium	0.830	Spike	P	0 - 20
2293216	Zinc	1.30	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407239

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293216	Aluminum	1.75	Spike	P	0 - 20
2293216	Antimony	0.449	Spike	P	0 - 20
2293216	Arsenic	0.963	Spike	P	0 - 20
2293216	Barium	1.60	Spike	P	0 - 20
2293216	Beryllium	3.56	Spike	P	0 - 20
2293216	Boron	0.193	Spike	P	0 - 20
2293216	Cadmium	1.55	Spike	P	0 - 20
2293216	Chromium	0.418	Spike	P	0 - 20
2293216	Cobalt	0.00997	Spike	P	0 - 20
2293216	Copper	1.38	Spike	P	0 - 20
2293216	Lead	0.110	Spike	P	0 - 20
2293216	Manganese	1.74	Spike	P	0 - 20
2293216	Molybdenum	1.05	Spike	P	0 - 20
2293216	Nickel	1.06	Spike	P	0 - 20
2293216	Selenium	0.258	Spike	P	0 - 20
2293216	Silver	0.379	Spike	P	0 - 20
2293216	Thallium	0.258	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292967	Chloride	0.722	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292967	Sulfate	0.922	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293200	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293206	Kjeldahl Nitrogen	0.774	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407647

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293199	Kjeldahl Nitrogen	0.872	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407180

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293192	NO2NO3-N	0.484	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2292905	Total-P	3.69	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407126

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293228	Total-P	1.14	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407118

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293204	O-Phosphate-P	1.22	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P407105

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293214	Aldrin	0.889	Spike	P	0 - 37
2293214	Alpha-BHC	0.215	Spike	P	0 - 16
2293214	Alpha-Chlordane	6.13	Spike	P	0 - 28
2293214	Beta-BHC	2.64	Spike	P	0 - 32
2293214	Beta-Cyfluthrin	11.7	Spike	P	0 - 41
2293214	Bifenthrin	7.88	Spike	P	0 - 36
2293214	Chlorothalonil	9.26	Spike	P	0 - 54
2293214	Cis-Nonachlor	10.7	Spike	P	0 - 33
2293214	Cypermethrin	5.68	Spike	P	0 - 38
2293214	Dacthal	2.90	Spike	P	0 - 23
2293214	DDD-p,p'	5.59	Spike	P	0 - 35
2293214	DDE-p,p'	4.95	Spike	P	0 - 27
2293214	DDT-p,p'	0.0590	Spike	P	0 - 31
2293214	Delta-BHC	5.50	Spike	P	0 - 30
2293214	Deltamethrin	3.00	Spike	P	0 - 76
2293214	Dichlobenil	4.81	Spike	P	0 - 33
2293214	Dicofol	0.691	Spike	P	0 - 24
2293214	Dieldrin	3.54	Spike	P	0 - 35
2293214	Endosulfan I	4.08	Spike	P	0 - 25
2293214	Endosulfan II	4.84	Spike	P	0 - 31
2293214	Endosulfan Sulfate	3.90	Spike	P	0 - 38
2293214	Endrin	4.15	Spike	P	0 - 53
2293214	Endrin Aldehyde	1.09	Spike	P	0 - 81
2293214	Endrin Ketone	3.63	Spike	P	0 - 33
2293214	Esfenvalerate	7.86	Spike	P	0 - 46
2293214	Ethalfuralin	1.23	Spike	P	0 - 22
2293214	Fenpropathrin	3.38	Spike	P	0 - 29
2293214	Gamma-BHC	0.661	Spike	P	0 - 17
2293214	Gamma-Chlordane	5.10	Spike	P	0 - 28
2293214	Heptachlor	2.24	Spike	P	0 - 28
2293214	Heptachlor Epoxide	1.64	Spike	P	0 - 23
2293214	Hexachlorobenzene	2.34	Spike	P	0 - 22
2293214	Kepone	8.58	Spike	P	0 - 61
2293214	Lambda-Cyhalothrin	5.05	Spike	P	0 - 52
2293214	Methoprene	3.19	Spike	P	0 - 38
2293214	Methoxychlor	2.40	Spike	P	0 - 29
2293214	MGK-264	5.73	Spike	P	0 - 41
2293214	Mirex	4.58	Spike	P	0 - 39
2293214	Oxychlordane	0.611	Spike	P	0 - 33
2293214	Permethrin	5.99	Spike	P	0 - 39
2293214	Phenothrin	4.10	Spike	P	0 - 52
2293214	Piperonyl Butoxide	5.98	Spike	P	0 - 91
2293214	Prallethrin	1.47	Spike	P	0 - 34
2293214	Tau-Fluvalinate	7.00	Spike	P	0 - 41
2293214	Tetramethrin	12.3	Spike	P	0 - 43
2293214	Trans-Nonachlor	6.03	Spike	P	0 - 31
2293214	Triclosan Methyl	1.29	Spike	P	0 - 24
2293214	Trifluralin	1.34	Spike	P	0 - 23
LFB	Aldrin	15.1	LCS	P	0 - 61
LFB	Alpha-BHC	12.7	LCS	P	0 - 15
LFB	Alpha-Chlordane	0.801	LCS	P	0 - 23

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P407105

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Beta-BHC	2.01	LCS	P	0 - 24
LFB	Beta-Cyfluthrin	4.57	LCS	P	0 - 39
LFB	Bifenthrin	5.76	LCS	P	0 - 48
LFB	Chlorothalonil	37.7	LCS	F	0 - 32
LFB	Cis-Nonachlor	1.91	LCS	P	0 - 32
LFB	Cypermethrin	14.5	LCS	P	0 - 34
LFB	Dacthal	1.55	LCS	P	0 - 19
LFB	DDD-p,p'	3.97	LCS	P	0 - 28
LFB	DDE-p,p'	0.0598	LCS	P	0 - 24
LFB	DDT-p,p'	2.24	LCS	P	0 - 22
LFB	Delta-BHC	6.97	LCS	P	0 - 20
LFB	Deltamethrin	10.8	LCS	P	0 - 47
LFB	Dichlobenil	12.4	LCS	P	0 - 22
LFB	Dicofol	12.4	LCS	P	0 - 21
LFB	Dieldrin	3.34	LCS	P	0 - 21
LFB	Endosulfan I	0.0901	LCS	P	0 - 20
LFB	Endosulfan II	6.05	LCS	P	0 - 22
LFB	Endosulfan Sulfate	5.76	LCS	P	0 - 25
LFB	Endrin	10.1	LCS	P	0 - 20
LFB	Endrin Aldehyde	23.7	LCS	P	0 - 33
LFB	Endrin Ketone	4.32	LCS	P	0 - 20
LFB	Esfenvalerate	9.53	LCS	P	0 - 42
LFB	Ethalfuralin	9.43	LCS	P	0 - 20
LFB	Fenpropathrin	2.07	LCS	P	0 - 29
LFB	Gamma-BHC	6.64	LCS	P	0 - 16
LFB	Gamma-Chlordane	3.22	LCS	P	0 - 23
LFB	Heptachlor	26.2	LCS	P	0 - 27
LFB	Heptachlor Epoxide	2.73	LCS	P	0 - 20
LFB	Hexachlorobenzene	1.43	LCS	P	0 - 24
LFB	Kepone	8.57	LCS	P	0 - 80
LFB	Lambda-Cyhalothrin	11.5	LCS	P	0 - 42
LFB	Methoprene	6.06	LCS	P	0 - 48
LFB	Methoxychlor	11.7	LCS	P	0 - 22
LFB	MGK-264	5.00	LCS	P	0 - 54
LFB	Mirex	12.4	LCS	P	0 - 32
LFB	Oxychlordane	6.68	LCS	P	0 - 21
LFB	Permethrin	7.62	LCS	P	0 - 36
LFB	Phenothrin	8.81	LCS	P	0 - 60
LFB	Piperonyl Butoxide	2.29	LCS	P	0 - 36
LFB	Prallethrin	7.27	LCS	P	0 - 41
LFB	Tau-Fluvalinate	0.495	LCS	P	0 - 40
LFB	Tetramethrin	21.4	LCS	P	0 - 66
LFB	Trans-Nonachlor	2.17	LCS	P	0 - 25
LFB	Triclosan Methyl	1.47	LCS	P	0 - 19
LFB	Trifluralin	12.6	LCS	P	0 - 21

Reference Method: EPA 8270E

Batch ID: P407237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P407237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293215	Acetochlor	1.39	Spike	P	0 - 24
2293215	Alachlor	0.0976	Spike	P	0 - 24
2293215	Ametryn	9.67	Spike	P	0 - 27
2293215	Atrazine	3.61	Spike	P	0 - 29
2293215	Atrazine Desethyl	1.23	Spike	P	0 - 30
2293215	Azinphos Methyl	15.2	Spike	P	0 - 50
2293215	Azoxystrobin	6.12	Spike	P	0 - 32
2293215	Bromacil	21.0	Spike	P	0 - 30
2293215	Butylate	26.4	Spike	P	0 - 47
2293215	Caffeine	28.6	Spike	P	0 - 60
2293215	Carbophenothion	8.49	Spike	P	0 - 24
2293215	Carfentrazone Ethyl	0.539	Spike	P	0 - 26
2293215	Chlorfenapyr	5.44	Spike	P	0 - 30
2293215	Chlorpyrifos Ethyl	7.29	Spike	P	0 - 27
2293215	Chlorpyrifos Methyl	7.82	Spike	P	0 - 22
2293215	Coumaphos	12.5	Spike	P	0 - 30
2293215	Cyanazine	9.67	Spike	P	0 - 32
2293215	Cyprodinil	1.33	Spike	P	0 - 30
2293215	Demeton	3.47	Spike	P	0 - 25
2293215	Diazinon	3.87	Spike	P	0 - 24
2293215	Difenoconazole	8.79	Spike	P	0 - 25
2293215	Dimethenamid	1.73	Spike	P	0 - 30
2293215	Dimethomorph	5.81	Spike	P	0 - 30
2293215	Disulfoton	1.45	Spike	P	0 - 26
2293215	Dithiopyr	0.842	Spike	P	0 - 22
2293215	EPTC	32.2	Spike	P	0 - 38
2293215	Ethion	10.1	Spike	P	0 - 47
2293215	Ethoprop	5.32	Spike	P	0 - 23
2293215	Etridiazole	19.8	Spike	P	0 - 30
2293215	Fenamiphos	11.4	Spike	P	0 - 34
2293215	Fenbuconazole	3.10	Spike	P	0 - 37
2293215	Fipronil	2.86	Spike	P	0 - 23
2293215	Fipronil Desulfinyl	1.21	Spike	P	0 - 26
2293215	Fipronil Sulfide	9.02	Spike	P	0 - 23
2293215	Fipronil Sulfone	7.32	Spike	P	0 - 24
2293215	Fluazifop-P-butyl	5.34	Spike	P	0 - 24
2293215	Fludioxonil	2.78	Spike	P	0 - 26
2293215	Flumioxazin	2.72	Spike	P	0 - 37
2293215	Flutolanil	3.94	Spike	P	0 - 26
2293215	Fluxapyroxad	2.63	Spike	P	0 - 34
2293215	Fonofos	8.13	Spike	P	0 - 22
2293215	Hexazinone	0.332	Spike	P	0 - 21
2293215	Imazalil	5.03	Spike	P	0 - 65
2293215	Iprodione	6.90	Spike	P	0 - 33
2293215	Loratadine	4.45	Spike	P	0 - 30
2293215	Malathion	5.70	Spike	P	0 - 26
2293215	Metalaxyl	0.304	Spike	P	0 - 38
2293215	Metolachlor	1.35	Spike	P	0 - 36
2293215	Metribuzin	0.826	Spike	P	0 - 29
2293215	Mevinphos	12.3	Spike	P	0 - 26
2293215	Molinate	18.1	Spike	P	0 - 27

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P407237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293215	Myclobutanil	1.82	Spike	P	0 - 21
2293215	Naled	13.3	Spike	P	0 - 26
2293215	Napropamide	0.504	Spike	P	0 - 30
2293215	Norflurazon	6.04	Spike	P	0 - 24
2293215	Oxadiazon	3.43	Spike	P	0 - 23
2293215	Oxyfluorfen	0.622	Spike	P	0 - 24
2293215	Parathion Ethyl	7.94	Spike	P	0 - 23
2293215	Parathion Methyl	6.09	Spike	P	0 - 23
2293215	Pendimethalin	4.36	Spike	P	0 - 31
2293215	Phenytoin	2.47	Spike	P	0 - 30
2293215	Phorate	46.2	Spike	F	0 - 27
2293215	Prodiamine	7.44	Spike	P	0 - 52
2293215	Prometon	2.00	Spike	P	0 - 31
2293215	Prometryn	1.66	Spike	P	0 - 24
2293215	Pronamide	7.02	Spike	P	0 - 26
2293215	Propanil	11.4	Spike	P	0 - 30
2293215	Propargite	0.925	Spike	P	0 - 30
2293215	Propiconazole	1.70	Spike	P	0 - 31
2293215	Pyraflufen Ethyl	4.12	Spike	P	0 - 30
2293215	Pyridaben	3.93	Spike	P	0 - 30
2293215	Pyriproxyfen	8.48	Spike	P	0 - 50
2293215	Simazine	2.94	Spike	P	0 - 25
2293215	Stirophos	9.96	Spike	P	0 - 30
2293215	Sulfentrazone	5.34	Spike	P	0 - 33
2293215	Tebuconazole	5.39	Spike	P	0 - 43
2293215	Terbufos	7.83	Spike	P	0 - 22
2293215	Terbuthylazine	5.44	Spike	P	0 - 24
2293215	Thiobencarb	0.672	Spike	P	0 - 30
2293215	Triadimefon	3.25	Spike	P	0 - 30
LFB	Acetochlor	1.01	LCS	P	0 - 22
LFB	Alachlor	3.49	LCS	P	0 - 20
LFB	Ametryn	7.61	LCS	P	0 - 25
LFB	Atrazine	6.29	LCS	P	0 - 20
LFB	Atrazine Desethyl	13.3	LCS	P	0 - 33
LFB	Azinphos Methyl	1.02	LCS	P	0 - 51
LFB	Azoxystrobin	7.29	LCS	P	0 - 47
LFB	Bromacil	7.43	LCS	P	0 - 26
LFB	Butylate	8.89	LCS	P	0 - 35
LFB	Caffeine	6.84	LCS	P	0 - 27
LFB	Carbophenothion	17.8	LCS	P	0 - 22
LFB	Carfentrazone Ethyl	2.56	LCS	P	0 - 21
LFB	Chlorfenapyr	15.6	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	15.9	LCS	P	0 - 23
LFB	Chlorpyrifos Methyl	18.5	LCS	P	0 - 24
LFB	Coumaphos	16.3	LCS	P	0 - 30
LFB	Cyanazine	20.8	LCS	P	0 - 37
LFB	Cyprodinil	7.84	LCS	P	0 - 30
LFB	Demeton	2.40	LCS	P	0 - 32
LFB	Diazinon	2.07	LCS	P	0 - 21
LFB	Difenoconazole	26.8	LCS	P	0 - 37
LFB	Dimethenamid	4.89	LCS	P	0 - 21

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P407237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Dimethomorph	5.79	LCS	P	0 - 30
LFB	Disulfoton	21.0	LCS	P	0 - 31
LFB	Dithiopyr	1.89	LCS	P	0 - 21
LFB	EPTC	17.2	LCS	P	0 - 41
LFB	Ethion	17.9	LCS	P	0 - 45
LFB	Ethoprop	9.12	LCS	P	0 - 28
LFB	Etridiazole	5.85	LCS	P	0 - 30
LFB	Fenamiphos	14.6	LCS	P	0 - 28
LFB	Fenbuconazole	5.37	LCS	P	0 - 36
LFB	Fipronil	0.642	LCS	P	0 - 23
LFB	Fipronil Desulfinyl	2.26	LCS	P	0 - 22
LFB	Fipronil Sulfide	13.1	LCS	P	0 - 24
LFB	Fipronil Sulfone	14.9	LCS	P	0 - 24
LFB	Fluazifop-P-butyl	4.83	LCS	P	0 - 23
LFB	Fludioxonil	7.00	LCS	P	0 - 23
LFB	Flumioxazin	4.03	LCS	P	0 - 39
LFB	Flutolanil	4.57	LCS	P	0 - 27
LFB	Fluxapyroxad	5.46	LCS	P	0 - 38
LFB	Fonofos	24.2	LCS	P	0 - 28
LFB	Hexazinone	4.81	LCS	P	0 - 27
LFB	Imazalil	6.19	LCS	P	0 - 45
LFB	Iprodione	13.1	LCS	P	0 - 42
LFB	Loratadine	23.4	LCS	P	0 - 30
LFB	Malathion	13.3	LCS	P	0 - 23
LFB	Metalaxyl	2.16	LCS	P	0 - 41
LFB	Metolachlor	0.190	LCS	P	0 - 21
LFB	Metribuzin	6.03	LCS	P	0 - 31
LFB	Mevinphos	7.40	LCS	P	0 - 32
LFB	Molinate	14.7	LCS	P	0 - 31
LFB	Myclobutanil	5.21	LCS	P	0 - 27
LFB	Naled	12.2	LCS	P	0 - 32
LFB	Napropamide	5.27	LCS	P	0 - 30
LFB	Norflurazon	2.95	LCS	P	0 - 25
LFB	Oxadiazon	1.38	LCS	P	0 - 25
LFB	Oxyfluorfen	11.5	LCS	P	0 - 22
LFB	Parathion Ethyl	0.598	LCS	P	0 - 32
LFB	Parathion Methyl	4.82	LCS	P	0 - 30
LFB	Pendimethalin	2.95	LCS	P	0 - 39
LFB	Phenytoin	8.16	LCS	P	0 - 30
LFB	Phorate	31.6	LCS	P	0 - 36
LFB	Prodiamine	4.70	LCS	P	0 - 71
LFB	Prometon	10.5	LCS	P	0 - 23
LFB	Prometryn	2.95	LCS	P	0 - 22
LFB	Pronamide	1.51	LCS	P	0 - 21
LFB	Propanil	10.9	LCS	P	0 - 30
LFB	Propargite	2.26	LCS	P	0 - 30
LFB	Propiconazole	3.68	LCS	P	0 - 23
LFB	Pyraflufen Ethyl	0.905	LCS	P	0 - 30
LFB	Pyridaben	2.47	LCS	P	0 - 30
LFB	Pyriproxyfen	1.36	LCS	P	0 - 53
LFB	Simazine	7.59	LCS	P	0 - 22

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P407237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Stiropfos	21.0	LCS	P	0 - 30
LFB	Sulfentrazone	1.80	LCS	P	0 - 45
LFB	Tebuconazole	6.76	LCS	P	0 - 52
LFB	Terbufos	13.7	LCS	P	0 - 27
LFB	Terbutylazine	2.88	LCS	P	0 - 21
LFB	Thiobencarb	2.32	LCS	P	0 - 30
LFB	Triadimefon	5.40	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P407105

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293039	Chlordane	14.0	Spike	P	0 - 30
2293039	Toxaphene	3.45	Spike	P	0 - 30
LFB	Chlordane	19.9	LCS	P	0 - 30
LFB	Toxaphene	27.7	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P406989

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293213	Acesulfame K	5.37	Spike	P	0 - 30
2293213	AMPA	6.94	Spike	P	0 - 30
2293213	Endothall	6.63	Spike	P	0 - 30
2293213	Glufosinate	15.9	Spike	P	0 - 30
2293213	Glyphosate	10.5	Spike	P	0 - 30
2293213	Sucralose	16.6	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P407195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293917	3-Hydroxycarbofuran	6.80	Spike	P	0 - 30
2293917	Aldicarb	24.6	Spike	P	0 - 30
2293917	Aldicarb Sulfone	6.01	Spike	P	0 - 30
2293917	Aldicarb Sulfoxide	6.60	Spike	P	0 - 30
2293917	Carbaryl	5.15	Spike	P	0 - 30
2293917	Carbofuran	16.9	Spike	P	0 - 30
2293917	Methiocarb	22.1	Spike	P	0 - 30
2293917	Methomyl	6.39	Spike	P	0 - 30
2293917	Oxamyl	2.99	Spike	P	0 - 30
2293917	Propoxur	1.14	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P407196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P407196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293213	2,4-D	3.45	Spike	P	0 - 30
2293213	2,4,5-T	9.86	Spike	P	0 - 30
2293213	Acetaminophen	0.416	Spike	P	0 - 30
2293213	Acetamiprid	12.0	Spike	P	0 - 30
2293213	Afidopyropen	27.6	Spike	P	0 - 30
2293213	Bentazon	2.64	Spike	P	0 - 30
2293213	Benzovindiflupyr	22.3	Spike	P	0 - 30
2293213	Carbamazepine	3.68	Spike	P	0 - 30
2293213	Clothianidin	24.0	Spike	P	0 - 30
2293213	Dinotefuran	7.25	Spike	P	0 - 30
2293213	Diuron	28.6	Spike	P	0 - 30
2293213	Fenuron	6.95	Spike	P	0 - 30
2293213	Fluridone	7.67	Spike	P	0 - 30
2293213	Hydrocodone	8.36	Spike	P	0 - 30
2293213	Ibuprofen	5.52	Spike	P	0 - 30
2293213	Imazapyr	9.60	Spike	P	0 - 30
2293213	Imidacloprid	7.89	Spike	P	0 - 30
2293213	Linuron	4.58	Spike	P	0 - 30
2293213	Mandestrobin	20.4	Spike	P	0 - 30
2293213	MCP	14.2	Spike	P	0 - 30
2293213	Naproxen	85.2	Spike	F	0 - 30
2293213	Primidone	29.2	Spike	P	0 - 30
2293213	Pyraclostrobin	4.17	Spike	P	0 - 30
2293213	Silvex	3.25	Spike	P	0 - 30
2293213	Thiamethoxam	4.46	Spike	P	0 - 30
2293213	Tolfenpyrad	28.2	Spike	P	0 - 30
2293213	Triclopyr	27.6	Spike	P	0 - 30

Reference Method: SM 2120 B-2011

Batch ID: P407133

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293475	Color (true)	2.22	Sample	P	0 - 20

Reference Method: SM 2320 B-2011

Batch ID: P407287

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293857	Total Alkalinity	0.339	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011

Batch ID: P407670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293198	TDS	4.30	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P407293

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293857	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P407413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293022	Organic Carbon	0.123	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2293212
Field Sample ID: G2WA0009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	89.0	P	30 - 160

Lab Sample ID: 2293213
Field Sample ID: G2WA0009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	103	P	30 - 160
EPA 8321B	Diuron-d6	86.0	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	30 - 160
EPA 8321B	Ibuprofen-d3	115	P	30 - 160
EPA 8321B	Primidone-d5	76.6	P	30 - 160
EPA 8321B	Sucralose-d6	120	P	30 - 160

Lab Sample ID: 2293214
Field Sample ID: G2WA0009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.5	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	66.2	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	62.3	P	29 - 92.0
EPA 8276	PCNB	74.4	P	43 - 134

Lab Sample ID: 2293215
Field Sample ID: G2WA0009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	66.6	P	20 - 200
EPA 8270E	Simazine-d10	99.1	P	73 - 135
EPA 8270E	Terbufos-d10	94.6	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A109244

Included Lab Sample IDs: 2293202, 2293203, 2293204, 2293207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.5	99.7	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A109249

Included Lab Sample IDs: 2293196, 2293197, 2293198, 2293205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A109254

Included Lab Sample IDs: 2293196, 2293197, 2293198, 2293205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A109256

Included Lab Sample IDs: 2293196, 2293197, 2293198, 2293205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	104	P/P	90 - 110
Chloride	104	104	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110
Sulfate	98.2	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A109264

Included Lab Sample IDs: 2293199, 2293200, 2293201, 2293206

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

Reference Method: EPA 8321B

Run ID: A109287

Included Lab Sample IDs: 2293213

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	63.7	91.2	P/P	60 - 160
Endothall	83.3	79.8	P/P	60 - 160
Sucralose	80.3	84.4	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109296

Included Lab Sample IDs: 2293199, 2293200, 2293201, 2293206

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A109312

Included Lab Sample IDs: 2293196, 2293197, 2293198, 2293205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.3	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A109312

Included Lab Sample IDs: 2293196, 2293197, 2293198, 2293205

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A109327

Included Lab Sample IDs: 2293216, 2293217, 2293218, 2293219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.0	99.3	P/P	90 - 110
Iron	99.3	101	P/P	90 - 110
Magnesium	99.6	101	P/P	90 - 110
Potassium	93.6	95.1	P/P	90 - 110
Sodium	96.5	98.1	P/P	90 - 110
Strontium	96.5	96.8	P/P	90 - 110
Tin	95.7	95.7	P/P	90 - 110
Titanium	93.2	93.3	P/P	90 - 110
Vanadium	93.2	92.5	P/P	90 - 110
Zinc	94.9	94.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A109330

Included Lab Sample IDs: 2293216, 2293217, 2293218, 2293219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.8	97.2	P/P	90 - 110
Aluminum	98.4	96.8	P/P	90 - 110
Antimony	94.6	95.0	P/P	90 - 110
Antimony	95.4	94.6	P/P	90 - 110
Arsenic	97.6	97.8	P/P	90 - 110
Arsenic	97.8	94.8	P/P	90 - 110
Barium	98.3	99.5	P/P	90 - 110
Barium	99.5	98.7	P/P	90 - 110
Beryllium	95.6	96.7	P/P	90 - 110
Beryllium	96.7	92.9	P/P	90 - 110
Boron	92.0	96.0	P/P	90 - 110
Boron	95.0	92.0	P/P	90 - 110
Cadmium	98.2	98.8	P/P	90 - 110
Cadmium	98.8	99.2	P/P	90 - 110
Chromium	97.7	97.8	P/P	90 - 110
Chromium	98.3	97.7	P/P	90 - 110
Cobalt	95.6	94.7	P/P	90 - 110
Cobalt	97.4	95.6	P/P	90 - 110
Copper	94.8	94.3	P/P	90 - 110
Copper	97.1	94.8	P/P	90 - 110
Lead	92.3	93.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A109330

Included Lab Sample IDs: 2293216, 2293217, 2293218, 2293219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	92.6	92.3	P/P	90 - 110
Manganese	97.9	99.5	P/P	90 - 110
Manganese	99.2	97.9	P/P	90 - 110
Molybdenum	98.1	98.6	P/P	90 - 110
Molybdenum	98.9	98.1	P/P	90 - 110
Nickel	96.1	95.3	P/P	90 - 110
Nickel	97.8	96.1	P/P	90 - 110
Selenium	96.2	98.3	P/P	90 - 110
Selenium	98.3	96.1	P/P	90 - 110
Silver	96.2	96.3	P/P	90 - 110
Silver	96.3	96.4	P/P	90 - 110
Thallium	96.5	96.6	P/P	90 - 110
Thallium	96.6	97.0	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A109341

Included Lab Sample IDs: 2293214

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.3		P	80 - 120
Toxaphene	112		P	80 - 120

Reference Method: EPA 8270E

Run ID: A109362

Included Lab Sample IDs: 2293214

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.9		P	80 - 120
Alpha-BHC	99.3		P	80 - 120
Alpha-Chlordane	97.6		P	80 - 120
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	98.7		P	80 - 120
Bifenthrin	100		P	80 - 120
Chlorothalonil	100		P	80 - 120
Cis-Nonachlor	96.8		P	80 - 120
Cypermethrin	92.6		P	80 - 120
Dacthal	98.9		P	80 - 120
DDD-p,p'	96.3		P	80 - 120
DDE-p,p'	98.6		P	80 - 120
DDT-p,p'	99.8		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	94.6		P	80 - 120
Dichlobenil	96.8		P	80 - 120
Dicofol	103		P	80 - 120
Dieldrin	100		P	80 - 120
Endosulfan I	95.8		P	80 - 120
Endosulfan II	94.1		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	95.8		P	80 - 120
Endrin Ketone	87.9		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E

Run ID: A109362

Included Lab Sample IDs: 2293214

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Esfenvalerate	97.1		P	80 - 120
Ethalfuralin	103		P	80 - 120
Fenpropathrin	96.3		P	80 - 120
Gamma-BHC	96.8		P	80 - 120
Gamma-Chlordane	97.3		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	99.3		P	80 - 120
Kepone	68.0*		F	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	95.2		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	97.9		P	80 - 120
Mirex	96.8		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	98.5		P	80 - 120
Phenothrin	95.2		P	80 - 120
Piperonyl Butoxide	102		P	80 - 120
Prallethrin	98.0		P	80 - 120
Tau-Fluvalinate	97.4		P	80 - 120
Tetramethrin	98.7		P	80 - 120
Trans-Nonachlor	95.6		P	80 - 120
Triclosan Methyl	97.0		P	80 - 120
Trifluralin	98.5		P	80 - 120

Reference Method: EPA 8321B

Run ID: A109365

Included Lab Sample IDs: 2293213

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.9	79.3	P/P	50 - 150
2,4,5-T	119	90.1	P/P	50 - 150
3-Hydroxycarbofuran	100	103	P/P	60 - 150
Acetaminophen	99.8	103	P/P	60 - 160
Acetamiprid	104	106	P/P	50 - 150
Afidopyropen	94.2	94.6	P/P	50 - 150
Aldicarb	104	84.7	P/P	60 - 150
Aldicarb Sulfone	100	105	P/P	50 - 150
Aldicarb Sulfoxide	97.0	107	P/P	50 - 150
Bentazon	120	102	P/P	50 - 160
Benzovindiflupyr	88.9	99.1	P/P	50 - 150
Carbamazepine	101	106	P/P	60 - 150
Carbaryl	102	102	P/P	60 - 150
Carbofuran	115	100	P/P	50 - 150
Clothianidin	90.8	94.7	P/P	60 - 150
Dinotefuran	97.7	100	P/P	50 - 150
Diuron	98.1	116	P/P	60 - 160
Fenuron	100	96.9	P/P	60 - 150
Fluridone	90.6	94.4	P/P	60 - 160
Hydrocodone	95.9	103	P/P	60 - 150
Ibuprofen	89.9	135	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A109365
Included Lab Sample IDs: 2293213

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imazapyr	97.3	87.2	P/P	50 - 150
Imidacloprid	89.3	93.3	P/P	60 - 150
Linuron	75.1	89.4	P/P	60 - 150
Mandestrobin	90.8	98.2	P/P	50 - 150
MCPP	83.3	79.6	P/P	50 - 150
Methiocarb	102	78.4	P/P	50 - 150
Methomyl	97.8	98.2	P/P	50 - 150
Naproxen	90.0	72.8	P/P	50 - 160
Oxamyl	107	98.4	P/P	50 - 150
Primidone	61.6	92.9	P/P	60 - 150
Propoxur	113	107	P/P	50 - 150
Pyraclostrobin	127	128	P/P	60 - 150
Silvex	86.7	104	P/P	50 - 150
Thiamethoxam	101	98.7	P/P	50 - 150
Tolfenpyrad	86.7	86.6	P/P	60 - 150
Triclopyr	95.2	91.9	P/P	50 - 150

Reference Method: SM 5310 B-2011
Run ID: A109369
Included Lab Sample IDs: 2293199, 2293200, 2293201, 2293206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.0	95.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A109450
Included Lab Sample IDs: 2293206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.3	96.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A109456
Included Lab Sample IDs: 2293215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	99.9		P	80 - 120
Atrazine	99.9		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	111		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	103		P	80 - 120
Carbophenothion	98.6		P	80 - 120
Carfentrazone Ethyl	97.7		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	95.3		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E

Run ID: A109456

Included Lab Sample IDs: 2293215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Coumaphos	93.9		P	80 - 120
Cyanazine	95.5		P	80 - 120
Cyprodinil	101		P	80 - 120
Demeton	98.6		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	109		P	80 - 120
Dimethenamid	104		P	80 - 120
Dimethomorph	103		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	100		P	80 - 120
Ethion	98.4		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	97.0		P	80 - 120
Fenbuconazole	95.3		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	93.9		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	100		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	107		P	80 - 120
Iprodione	113		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	95.5		P	80 - 120
Metaxyl	99.8		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	108		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	105		P	80 - 120
Naled	102		P	80 - 120
Napropamide	98.8		P	80 - 120
Norflurazon	99.4		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	96.4		P	80 - 120
Parathion Methyl	106		P	80 - 120
Pendimethalin	99.5		P	80 - 120
Phenytoin	98.7		P	80 - 120
Phorate	107		P	80 - 120
Prodiamine	98.1		P	80 - 120
Prometon	106		P	80 - 120
Prometryn	99.1		P	80 - 120
Pronamide	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A109456
Included Lab Sample IDs: 2293215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propanil	107		P	80 - 120
Propargite	95.0		P	80 - 120
Propiconazole	102		P	80 - 120
Pyraflufen Ethyl	106		P	80 - 120
Pyridaben	95.6		P	80 - 120
Pyriproxyfen	109		P	80 - 120
Simazine	105		P	80 - 120
Stirophos	98.8		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	98.5		P	80 - 120
Terbufos	100		P	80 - 120
Terbuthylazine	101		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A109511
Included Lab Sample IDs: 2293199, 2293200, 2293201, 2293206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.4	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A109533
Included Lab Sample IDs: 2293199, 2293200, 2293201

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	101	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							1.60	
EPA 200.7 Rev. 4.4	Calcium	98.0		92.5	99.3				0.991
	Iron	105		102	105	103			2.63
	Magnesium	108		99.9	104	105			2.21
	Potassium	98.6		96.0	96.3	94.3			0.283
	Sodium	103		96.9	96.6	96.9			0.153
	Strontium	98.6		94.6	95.0	96.6			0.449
	Tin	99.1		97.3	96.8	98.3			0.474
	Titanium	98.5		98.0	97.2	99.8			0.756
	Vanadium	97.5		98.3	97.4	99.5			0.830
	Zinc	98.9		96.8	95.5	99.1			1.30
EPA 200.8 Rev. 5.4	Aluminum	102		98.9	101	103			1.75
	Antimony	104		103	104	103			0.449
	Arsenic	101		102	101	98.6			0.963
	Barium	107		108	106	107			1.60
	Beryllium	99.9		104	101	107			3.56
	Boron	97.6		94.2	94.4	98.2			0.193
	Cadmium	103		103	105	104			1.55
	Chromium	104		105	105	106			0.418
	Cobalt	103		102	102	102			0.0099
	Copper	102		98.5	99.9	101			1.38
	Lead	98.3		97.9	97.8	98.5			0.110
	Manganese	102		103	105	106			1.74
	Molybdenum	103		105	107	104			1.05
	Nickel	103		102	101	101			1.06
	Selenium	98.3		100	100	97.8			0.258
	Silver	101		101	100	101			0.379
	Thallium	103		105	105	104			0.258
EPA 300.0 Rev. 2.1	Chloride	101		102	100			0.722	
	Sulfate	97.0		98.5	97.0			0.922	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6		96.8	96.8				0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.9		98.9	98.0				0.774
	Kjeldahl Nitrogen	104		98.3	97.4				0.872
EPA 353.2 Rev. 2.0	NO2NO3-N	102		104	103				0.484
EPA 365.1 Rev. 2.0	Total-P	105		108	103				3.69
	Total-P	106		108	109				1.14
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.2		97.7	99.2				1.22
EPA 8270E	Acetochlor	106	107	109	111	1.01			1.39
	Alachlor	99.4	96.0	104	104	3.49			0.0976
	Aldrin	79.5	92.5	63.6	64.1	15.1			0.889
	Alpha-BHC	82.2	93.4	89.5	89.3	12.7			0.215
	Alpha-Chlordane	95.5	94.8	78.2	73.6	0.801			6.13
	Ametryn	129	120	118	130	7.61			9.67
	Atrazine	102	95.8	101	106	6.29			3.61
	Atrazine Desethyl	72.2	63.2	71.0	71.9	13.3			1.23
	Azinphos Methyl	85.4	84.5	85.7	99.9	1.02			15.2
	Azoxystrobin	104	96.9	106	112	7.29			6.12
	Beta-BHC	95.1	97.1	115	112	2.01			2.64
	Beta-Cyfluthrin	102	97.6	85.8	76.4	4.57			11.7
	Bifenthrin	87.6	92.8	72.9	67.4	5.76			7.88
	Bromacil	101	93.3	84.1	104	7.43			21.0
	Butylate	55.0	50.3	55.9	72.9	8.89			26.4
	Caffeine	83.1	77.6	138	104	6.84			28.6
	Carbophenothion	97.6	81.7	84.3	91.8	17.8			8.49

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Carfentrazone Ethyl	106	104	110	110	2.56		0.539
	Chlorfenapyr	88.6	75.8	80.0	84.5	15.6		5.44
	Chlorothalonil	63.9	93.6	110	100	37.7		9.26
	Chlorpyrifos Ethyl	91.7	78.2	81.2	87.3	15.9		7.29
	Chlorpyrifos Methyl	102	84.8	92.1	99.6	18.5		7.82
	Cis-Nonachlor	102	104	76.2	68.5	1.91		10.7
	Coumaphos	124	106	111	125	16.3		12.5
	Cyanazine	124	100	106	116	20.8		9.67
	Cypermethrin	83.3	96.3	77.6	73.3	14.5		5.68
	Cyprodinil	131	121	132	130	7.84		1.33
	Dacthal	99.6	98.1	95.3	92.6	1.55		2.90
	DDD-p,p'	88.4	92.0	83.3	78.8	3.97		5.59
	DDE-p,p'	99.4	99.3	77.3	73.6	0.0598		4.95
	DDT-p,p'	99.8	97.6	70.2	70.1	2.24		0.0590
	Delta-BHC	97.0	90.4	117	111	6.97		5.50
	Deltamethrin	81.3	90.6	87.4	84.8	10.8		3.00
	Demeton	83.4	81.5	102	105	2.40		3.47
	Diazinon	108	106	113	109	2.07		3.87
	Dichlobenil	112	98.9	93.5	89.1	12.4		4.81
	Dicofol	74.6	84.5	72.9	73.4	12.4		0.691
	Dieldrin	103	99.2	85.4	82.4	3.34		3.54
	Difenoconazole	76.8	100	91.6	100	26.8		8.79
	Dimethenamid	88.0	83.8	90.4	88.8	4.89		1.73
	Dimethomorph	105	111	113	119	5.79		5.81
	Disulfoton	103	83.4	96.7	95.3	21.0		1.45
	Dithiopyr	101	99.4	103	104	1.89		0.842
	Endosulfan I	95.8	95.8	83.3	80.0	0.0901		4.08
	Endosulfan II	87.7	93.2	96.2	91.6	6.05		4.84
	Endosulfan Sulfate	95.6	90.3	102	97.9	5.76		3.90
	Endrin	82.1	90.8	87.2	83.7	10.1		4.15
	Endrin Aldehyde	105	82.6	86.1	85.1	23.7		1.09
	Endrin Ketone	91.8	95.8	67.3	64.9	4.32		3.63
	EPTC	54.9	46.2	55.7	77.1	17.2		32.2
	Esfenvalerate	84.1	92.6	79.2	73.2	9.53		7.86
	Ethalfuralin	85.5	93.9	74.8	73.9	9.43		1.23
	Ethion	93.1	77.8	78.7	87.1	17.9		10.1
	Ethoprop	94.3	86.1	91.0	96.0	9.12		5.32
	Etridiazole	58.9	55.5	63.7	77.7	5.85		19.8
	Fenamiphos	108	93.2	87.0	97.6	14.6		11.4
	Fenbuconazole	125	119	129	133	5.37		3.10
	Fenpropathrin	89.4	91.2	79.3	76.7	2.07		3.38
	Fipronil	106	105	108	112	0.642		2.86
	Fipronil Desulfinyl	102	104	104	103	2.26		1.21
	Fipronil Sulfide	85.1	74.6	79.0	86.5	13.1		9.02
	Fipronil Sulfone	95.3	82.0	89.2	96.0	14.9		7.32
	Fluazifop-P-butyl	97.5	92.9	96.5	102	4.83		5.34
	Fludioxonil	107	99.7	103	106	7.00		2.78
	Flumioxazin	172	180	209	215	4.03		2.72
	Flutolanil	95.7	91.4	92.6	96.4	4.57		3.94
	Fluxapyroxad	115	109	119	122	5.46		2.63
	Fonofos	99.5	78.0	93.2	101	24.2		8.13
	Gamma-BHC	88.2	94.2	95.7	96.3	6.64		0.661
	Gamma-Chlordane	99.5	96.3	77.7	73.9	3.22		5.10
	Heptachlor	71.9	93.5	70.5	69.0	26.2		2.24

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Heptachlor Epoxide	96.6	99.3	84.8	83.4	2.73	1.64
	Hexachlorobenzene	94.6	95.9	73.8	72.0	1.43	2.34
	Hexazinone	109	104	114	113	4.81	0.332
	Imazalil	98.7	92.8	94.9	99.8	6.19	5.03
	Iprodione	54.8	62.5	61.6	66.0	13.1	6.90
	Kepone	30.5	33.3	133	122	8.57	8.58
	Lambda-Cyhalothrin	82.4	92.4	77.5	73.7	11.5	5.05
	Loratadine	73.4	92.8	92.0	96.2	23.4	4.45
	Malathion	103	90.5	92.4	97.8	13.3	5.70
	Metalaxyl	94.6	92.5	96.2	96.5	2.16	0.304
	Methoprene	93.1	98.9	66.9	64.8	6.06	3.19
	Methoxychlor	83.5	93.9	86.1	88.2	11.7	2.40
	Metolachlor	104	104	110	108	0.190	1.35
	Metribuzin	110	103	110	111	6.03	0.826
	Mevinphos	89.4	83.0	86.8	98.1	7.40	12.3
	MGK-264	104	98.5	96.5	91.1	5.00	5.73
	Mirex	78.6	89.0	56.6	54.1	12.4	4.58
	Molinate	68.1	58.8	68.6	82.2	14.7	18.1
	Myclobutanil	103	97.4	103	105	5.21	1.82
	Naled	101	89.1	88.3	101	12.2	13.3
	Napropamide	98.7	93.6	102	101	5.27	0.504
	Norflurazon	95.7	92.9	99.6	106	2.95	6.04
	Oxadiazon	89.3	88.0	87.0	90.0	1.38	3.43
	Oxychlordane	92.6	99.0	75.4	74.9	6.68	0.611
	Oxyfluorfen	107	120	127	127	11.5	0.622
	Parathion Ethyl	97.7	97.1	96.3	104	0.598	7.94
	Parathion Methyl	111	106	113	120	4.82	6.09
	Pendimethalin	80.3	82.7	85.9	89.7	2.95	4.36
	Permethrin	87.6	94.5	77.3	72.8	7.62	5.99
	Phenothrin	84.5	92.3	70.3	67.5	8.81	4.10
	Phenytol	103	95.1	105	108	8.16	2.47
	Phorate	84.8	117	167	104	31.6	46.2
	Piperonyl Butoxide	88.2	90.2	99.9	94.1	2.29	5.98
	Prallethrin	99.0	92.1	84.7	83.5	7.27	1.47
	Prodiamine	86.7	90.9	96.3	104	4.70	7.44
	Prometon	123	111	122	124	10.5	2.00
	Prometryn	119	115	122	125	2.95	1.66
	Pronamide	102	100	104	112	1.51	7.02
	Propanil	108	97.3	96.8	109	10.9	11.4
	Propargite	124	122	125	126	2.26	0.925
	Propiconazole	104	100	108	106	3.68	1.70
	Pyraflufen Ethyl	99.1	98.2	94.3	98.3	0.905	4.12
	Pyridaben	126	129	136	141	2.47	3.93
	Pyriproxyfen	58.9	59.7	60.8	66.1	1.36	8.48
	Simazine	107	98.9	103	106	7.59	2.94
	Stirophos	98.8	80.0	84.6	93.4	21.0	9.96
	Sulfentrazone	108	110	122	116	1.80	5.34
	Tau-Fluvalinate	93.8	94.3	76.8	71.6	0.495	7.00
	Tebuconazole	117	109	116	122	6.76	5.39
	Terbufos	111	96.6	105	114	13.7	7.83
	Terbuthylazine	97.4	94.7	93.9	99.2	2.88	5.44
	Tetramethrin	74.2	92.0	129	114	21.4	12.3
	Thiobencarb	99.3	102	101	99.9	2.32	0.672
	Trans-Nonachlor	101	98.8	74.8	70.4	2.17	6.03

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Triadimefon	99.1	93.9	96.6	99.8	5.40	3.25
	Triclosan Methyl	101	99.9	84.8	83.7	1.47	1.29
	Trifluralin	78.7	89.3	73.5	72.5	12.6	1.34
EPA 8276	Chlordane	107	88.0	52.2	60.0	19.9	14.0
	Toxaphene	116	87.6	70.8	73.3	27.7	3.45
EPA 8321B	2,4-D	112		114	110		3.45
	2,4,5-T	125		137	124		9.86
	3-Hydroxycarbofuran	77.6		101	94.6		6.80
	Acesulfame K	68.7		62.5	59.3		5.37
	Acetaminophen	87.8		89.7	89.3		0.416
	Acetamiprid	88.4		87.1	77.2		12.0
	Afidopyropen	67.1		77.4	58.6		27.6
	Aldicarb	66.8		69.8	54.5		24.6
	Aldicarb Sulfone	92.4		109	115		6.01
	Aldicarb Sulfoxide	99.3		43.8	41.0		6.60
	AMPA	92.7		92.4	99.1		6.94
	Bentazon	87.3		98.2	95.1		2.64
	Benzovindiflupyr	75.5		96.3	77.0		22.3
	Carbamazepine	102		95.0	91.6		3.68
	Carbaryl	73.7		67.1	63.7		5.15
	Carbofuran	95.7		88.7	74.9		16.9
	Clothianidin	74.4		89.3	114		24.0
	Dinotefuran	85.7		91.8	99.0		7.25
	Diuron	95.6		102	76.3		28.6
	Endothall	77.6		103	95.9		6.63
	Fenuron	84.6		97.3	90.8		6.95
	Fluridone	78.9		91.5	84.7		7.67
	Glufosinate	95.5		93.3	109		15.9
	Glyphosate	94.3		89.9	99.9		10.5
	Hydrocodone	88.6		106	97.8		8.36
	Ibuprofen	56.3		49.6	52.4		5.52
	Imazapyr	84.7		110	99.4		9.60
	Imidacloprid	90.5		91.8	99.4		7.89
	Linuron	65.5		82.2	86.1		4.58
	Mandestrobin	77.0		85.4	69.6		20.4
	MCPP	101		114	99.2		14.2
	Methiocarb	56.6		71.7	57.4		22.1
	Methomyl	86.7		88.6	83.1		6.39
	Naproxen	91.1		109	43.9		85.2
	Oxamyl	92.7		93.9	91.2		2.99
	Primidone	93.4		127	94.9		29.2
	Propoxur	94.6		74.6	73.8		1.14
	Pyraclostrobin	76.9		94.0	90.1		4.17
	Silvex	85.5		103	99.4		3.25
	Sucralose	75.4		103	87.3		16.6
	Thiamethoxam	90.5		97.3	93.1		4.46
	Tolfenpyrad	31.9		56.9	42.8		28.2
	Triclopyr	125		137	104		27.6
SM 2120 B-2011	Color (true)	99.2				2.22	
SM 2320 B-2011	Total Alkalinity	99.7				0.339	
SM 2540 C-2011	TDS					4.30	
SM 4500 F-C-2011	Fluoride	101		101	101		0.0
SM 5310 B-2011	Organic Carbon	94.4		92.8	93.0		0.123

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2293196, 2293197, 2293198, 2293205
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2293216, 2293217, 2293218, 2293219
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2293216, 2293217, 2293218, 2293219
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2293196, 2293197, 2293198, 2293205
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2293196, 2293197, 2293198, 2293205
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2293199, 2293200, 2293201, 2293206
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2293199, 2293200, 2293201, 2293206
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2293199, 2293200, 2293201, 2293206
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2293199, 2293200, 2293201, 2293206
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2293202, 2293203, 2293204, 2293207
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2293214
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2293215
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2293214
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2293212
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2293213
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2293196, 2293197, 2293198, 2293205
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2293196, 2293197, 2293198, 2293205
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2293216, 2293217, 2293218, 2293219
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2293196, 2293197, 2293198, 2293205
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2293196, 2293197, 2293198, 2293205
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2293196, 2293197, 2293198, 2293205
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2293199, 2293200, 2293201, 2293206

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	12/06/2021			12/07/2021 17:29	Khloe J Berg	2293196, 2293197, 2293198, 2293205
EPA 200.7 Rev. 4.4	12/06/2021	12/09/2021 11:00	Vijayalakshmi Reddy	12/10/2021 22:31	Josef B Mick	2293216
	12/06/2021	12/09/2021 11:00	Vijayalakshmi Reddy	12/10/2021 22:58	Josef B Mick	2293217
	12/06/2021	12/09/2021 11:00	Vijayalakshmi Reddy	12/10/2021 23:06	Josef B Mick	2293218
	12/06/2021	12/09/2021 11:00	Vijayalakshmi Reddy	12/10/2021 23:14	Josef B Mick	2293219
EPA 200.8 Rev. 5.4	12/06/2021	12/09/2021 11:00	Vijayalakshmi Reddy	12/10/2021 16:48	Alexander Thompson	2293216
	12/06/2021	12/09/2021 11:00	Vijayalakshmi Reddy	12/10/2021 18:05	Alexander Thompson	2293217
	12/06/2021	12/09/2021 11:00	Vijayalakshmi Reddy	12/10/2021 18:15	Alexander Thompson	2293218
	12/06/2021	12/09/2021 11:00	Vijayalakshmi Reddy	12/10/2021 18:24	Alexander Thompson	2293219
EPA 300.0 Rev. 2.1	12/06/2021			12/10/2021 13:01	Roberta Tatti	2293205
	12/06/2021			12/10/2021 14:38	Roberta Tatti	2293196
	12/06/2021			12/10/2021 14:51	Roberta Tatti	2293197
	12/06/2021			12/10/2021 15:27	Roberta Tatti	2293198
EPA 350.1 Rev. 2.0	12/06/2021			12/21/2021 11:48	Ping Hua	2293200
	12/06/2021			12/21/2021 11:55	Ping Hua	2293199
	12/06/2021			12/21/2021 11:56	Ping Hua	2293201
	12/06/2021			12/21/2021 11:58	Ping Hua	2293206
EPA 351.2 Rev. 2.0	12/06/2021	12/15/2021 10:04	Alexandra J Mattheus	12/16/2021 14:15	Alexandra J Mattheus	2293206
	12/06/2021	12/20/2021 10:35	Samantha L Bates	12/22/2021 09:57	Alexandra J Mattheus	2293199
	12/06/2021	12/20/2021 10:35	Samantha L Bates	12/22/2021 10:02	Alexandra J Mattheus	2293200
	12/06/2021	12/20/2021 10:35	Samantha L Bates	12/22/2021 10:03	Alexandra J Mattheus	2293201
EPA 353.2 Rev. 2.0	12/06/2021			12/08/2021 10:08	Beverly Y. Sanders	2293199
	12/06/2021			12/08/2021 10:09	Beverly Y. Sanders	2293200
	12/06/2021			12/08/2021 10:10	Beverly Y. Sanders	2293201
	12/06/2021			12/08/2021 10:12	Beverly Y. Sanders	2293206
EPA 365.1 Rev. 2.0	12/06/2021	12/08/2021 18:00	Simonne.V. Calhoun	12/09/2021 13:09	Shengyu Ding	2293199
	12/06/2021	12/08/2021 18:00	Simonne.V. Calhoun	12/09/2021 13:10	Shengyu Ding	2293200
	12/06/2021	12/08/2021 18:00	Simonne.V. Calhoun	12/09/2021 13:11	Shengyu Ding	2293201
	12/06/2021	12/08/2021 18:00	Simonne.V. Calhoun	12/09/2021 13:58	Shengyu Ding	2293206
EPA 365.1 Rev. 2.0 dissolved	12/06/2021			12/07/2021 15:00	James L Waggeberby	2293204
	12/06/2021			12/07/2021 15:03	James L Waggeberby	2293202
	12/06/2021			12/07/2021 15:04	James L Waggeberby	2293203
	12/06/2021			12/07/2021 15:05	James L Waggeberby	2293207
EPA 8270E	12/06/2021	12/08/2021 08:00	Rasheda Ghaffari	12/13/2021 20:01	Vandana T. Nagar	2293214
	12/06/2021	12/10/2021 08:00	Rasheda Ghaffari	12/15/2021 16:51	Michael Poppell	2293215
EPA 8276	12/06/2021	12/08/2021 08:00	Rasheda Ghaffari	12/11/2021 14:49	Arthur Maknenko	2293214
EPA 8321B	12/06/2021	12/08/2021 10:40	Juyoung Kim	12/08/2021 12:14	Juyoung Kim	2293213
	12/06/2021	12/08/2021 10:40	Juyoung Kim	12/08/2021 20:56	Manjita Shrestha	2293213
	12/06/2021	12/13/2021 09:00	Hoor Shaik	12/13/2021 23:37	Juyoung Kim	2293212
	12/06/2021	12/13/2021 09:00	Hoor Shaik	12/14/2021 06:33	Juyoung Kim	2293213

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2120 B-2011	12/06/2021			12/07/2021 15:33	Sarah A Nixon	2293196
	12/06/2021			12/07/2021 15:34	Sarah A Nixon	2293197, 2293198
	12/06/2021			12/07/2021 15:35	Sarah A Nixon	2293205
SM 2320 B-2011	12/06/2021			12/09/2021 18:51	Dale L. Simmons	2293196
	12/06/2021			12/09/2021 19:04	Dale L. Simmons	2293197
	12/06/2021			12/09/2021 19:16	Dale L. Simmons	2293198
SM 2340B	12/06/2021			12/09/2021 19:29	Dale L. Simmons	2293205
	12/06/2021			12/10/2021 22:31	Josef B Mick	2293216
	12/06/2021			12/10/2021 22:58	Josef B Mick	2293217
SM 2540 C-2011	12/06/2021			12/10/2021 23:06	Josef B Mick	2293218
	12/06/2021			12/10/2021 23:14	Josef B Mick	2293219
	12/06/2021			12/10/2021 15:28	Yijie Li	2293196, 2293197, 2293198, 2293205
SM 2540 D-2011	12/06/2021			12/10/2021 15:28	Yijie Li	2293196, 2293197, 2293198, 2293205
SM 4500 F-C-2011	12/06/2021			12/09/2021 18:51	Dale L. Simmons	2293196
	12/06/2021			12/09/2021 19:04	Dale L. Simmons	2293197
	12/06/2021			12/09/2021 19:16	Dale L. Simmons	2293198
SM 5310 B-2011	12/06/2021			12/09/2021 19:29	Dale L. Simmons	2293205
	12/06/2021			12/14/2021 02:06	Khloe J Berg	2293199
	12/06/2021			12/14/2021 02:24	Khloe J Berg	2293200
	12/06/2021			12/14/2021 02:38	Khloe J Berg	2293201
	12/06/2021			12/14/2021 02:51	Khloe J Berg	2293206