

Chemical Analysis Report

NW-DIST-2022-04-29-01

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

Event Description: **Pace Run**
Request ID: **RQ-2022-04-25-29**
Customer: **NW-DIST**
Project ID: **SMP**

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 24-MAY-2022 17:46



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: Clear Creek upstream of Pat Brown Road

Collection Date/Time: 04/28/2022 09:10

Field ID: G4NW0360

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323295	DEP SOP: NU-094-1	Color (true)**	10		PCU	P413161	
	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P413163	
	EPA 300.0 Rev. 2.1	Chloride	4.1		mg Cl/L	P413493	
		Sulfate	0.42	I	mg SO4/L	P413496	
	SM 2320 B-2011	Total Alkalinity	2.8		mg CaCO3/L	P413565	
	SM 2540 C-2011	TDS	29		mg/L	P413672	
	SM 2540 D-2011	TSS	4	I	mg/L	P413515	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P413567	
2323296	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P413505	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.18	I	mg N/L	P413580	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.98		mg N/L	P413483	
	EPA 365.1 Rev. 2.0	Total-P	0.006		mg P/L	P413409	
	SM 5310 B-2011	Organic Carbon	1.1		mg C/L	P413819	
2323319	EPA 200.7 Rev. 4.4	Calcium	1.39		mg/L	P413249	
		Iron	500		ug/L	P413249	
		Magnesium	1.24		mg/L	P413249	
		Potassium	0.35	I	mg/L	P413249	
		Sodium	2.3		mg/L	P413249	
		Strontium	12.0		ug/L	P413249	
		Tin	3.0	U	ug/L	P413249	
		Titanium	1.4	I	ug/L	P413249	
		Vanadium	2.0	U	ug/L	P413249	
		Zinc	5.0	U	ug/L	P413249	
		Aluminum	58		ug/L	P413249	
		Antimony	0.050	U	ug/L	P413249	
	EPA 200.8 Rev. 5.4	Arsenic	0.19	I	ug/L	P413249	
		Barium	26.7		ug/L	P413249	
		Beryllium	0.012	I	ug/L	P413249	
		Boron**	8.8		ug/L	P413249	
		Cadmium	0.020	U	ug/L	P413249	
		Chromium	0.40	U	ug/L	P413249	
		Cobalt	0.166		ug/L	P413249	
		Copper	0.40	U	ug/L	P413249	
		Lead	0.20	U	ug/L	P413249	
		Manganese	10.8		ug/L	P413249	
		Molybdenum	0.15	U	ug/L	P413249	
		Nickel	0.50	U	ug/L	P413249	
		Selenium	0.20	U	ug/L	P413249	
		Silver	0.010	U	ug/L	P413249	
		Thallium	0.10	U	ug/L	P413249	
	SM 2340 B-2011	Hardness	8.6		mg/L	P413249	

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: FB

Collection Date/Time: 04/28/2022 09:15

Field ID: FB_04282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323303	DEP SOP: NU-094-1	Color (true)**	2.5	U	PCU	P413161	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P413163	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P413493	
		Sulfate	0.20	U	mg SO4/L	P413496	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P413565	
	SM 2540 C-2011	TDS	15	U	mg/L	P413672	
	SM 2540 D-2011	TSS	2	U	mg/L	P413515	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P413567	
2323304	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P413436	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P413657	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413483	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P413556	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P413819	
2323322	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P413249	
		Iron	30	U	ug/L	P413249	
		Magnesium	0.040	U	mg/L	P413249	
		Potassium	0.30	U	mg/L	P413249	
		Sodium	0.50	U	mg/L	P413249	
		Strontium	2.0	U	ug/L	P413249	
		Tin	3.0	U	ug/L	P413249	
		Titanium	0.75	U	ug/L	P413249	
		Vanadium	2.0	U	ug/L	P413249	
		Zinc	5.0	U	ug/L	P413249	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P413249	
		Antimony	0.050	U	ug/L	P413249	
		Arsenic	0.050	U	ug/L	P413249	
		Barium	0.20	U	ug/L	P413249	
		Beryllium	0.010	U	ug/L	P413249	
		Boron**	2.0	U	ug/L	P413249	
		Cadmium	0.020	U	ug/L	P413249	
		Chromium	0.40	U	ug/L	P413249	
		Cobalt	0.020	U	ug/L	P413249	
		Copper	0.40	U	ug/L	P413249	
		Lead	0.20	U	ug/L	P413249	
		Manganese	0.10	U	ug/L	P413249	
		Molybdenum	0.15	U	ug/L	P413249	
		Nickel	0.50	U	ug/L	P413249	
		Selenium	0.20	U	ug/L	P413249	
		Silver	0.010	U	ug/L	P413249	
		Thallium	0.10	U	ug/L	P413249	
	SM 2340 B-2011	Hardness	0.35	U	mg/L	P413249	

Ref. Method and Comment:

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

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

Sample Location: Bucket Branch end of Bucket Creek Rd

Collection Date/Time: 04/28/2022 10:00

Field ID: G4NW0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323320	EPA 200.7 Rev. 4.4	Calcium	1.61		mg/L	P413249	
		Iron	700		ug/L	P413249	
		Magnesium	1.16		mg/L	P413249	
		Potassium	0.40	I	mg/L	P413249	
		Sodium	2.0	I	mg/L	P413249	
		Strontium	8.8		ug/L	P413249	
		Tin	3.0	U	ug/L	P413249	
		Titanium	1.1	I	ug/L	P413249	
		Vanadium	2.0	U	ug/L	P413249	
		Zinc	5.0	U	ug/L	P413249	
	EPA 200.8 Rev. 5.4	Aluminum	100		ug/L	P413249	
		Antimony	0.050	U	ug/L	P413249	
		Arsenic	0.30		ug/L	P413249	
		Barium	19.6		ug/L	P413249	
		Beryllium	0.010	U	ug/L	P413249	
		Boron**	12.0		ug/L	P413249	
		Cadmium	0.020	U	ug/L	P413249	
		Chromium	0.40	U	ug/L	P413249	
		Cobalt	0.136		ug/L	P413249	
		Copper	0.40	U	ug/L	P413249	
		Lead	0.20	U	ug/L	P413249	
		Manganese	23.3		ug/L	P413249	
		Molybdenum	0.15	U	ug/L	P413249	
		Nickel	0.50	U	ug/L	P413249	
		Selenium	0.20	U	ug/L	P413249	
		Silver	0.010	U	ug/L	P413249	
		Thallium	0.10	U	ug/L	P413249	
	SM 2340 B-2011	Hardness	8.8		mg/L	P413249	

Sample Location: Bucket Branch downstream of Pat Brown Road Collection Date/Time: 04/28/2022 09:40

Field ID: G4NW0532

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323321	EPA 200.7 Rev. 4.4	Calcium	1.72		mg/L	P413249	
		Iron	1.49E+03		ug/L	P413249	
		Magnesium	1.27		mg/L	P413249	
		Potassium	0.42	I	mg/L	P413249	
		Sodium	2.0	I	mg/L	P413249	
		Strontium	10.2		ug/L	P413249	
		Tin	3.0	U	ug/L	P413249	
		Titanium	2.0	I	ug/L	P413249	
		Vanadium	2.0	U	ug/L	P413249	
		Zinc	5.0	U	ug/L	P413249	
	EPA 200.8 Rev. 5.4	Aluminum	220		ug/L	P413249	
		Antimony	0.050	U	ug/L	P413249	
		Arsenic	0.47		ug/L	P413249	
		Barium	29.2		ug/L	P413249	
		Beryllium	0.029	I	ug/L	P413249	
		Boron**	12.2		ug/L	P413249	
		Cadmium	0.020	U	ug/L	P413249	
		Chromium	0.40	U	ug/L	P413249	
		Cobalt	1.18		ug/L	P413249	
		Copper	0.40	U	ug/L	P413249	
		Lead	0.74		ug/L	P413249	
		Manganese	156		ug/L	P413249	
		Molybdenum	0.15	U	ug/L	P413249	
		Nickel	0.50	U	ug/L	P413249	
		Selenium	0.20	U	ug/L	P413249	
		Silver	0.010	U	ug/L	P413249	
		Thallium	0.10	U	ug/L	P413249	
	SM 2340 B-2011	Hardness	9.5		mg/L	P413249	

Ref. Method and Comment:
EPA 200.8 Rev. 5.4: The lead result was confirmed in the undigested sample on 05/04/2022.

Sample Location: Big Coldwater Creek end of Steel Bridge Rd

Collection Date/Time: 04/28/2022 10:20

Field ID: G4NW0027

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323297	DEP SOP: NU-094-1	Color (true)**	21	A	PCU	P413161	
	EPA 180.1 Rev. 2.0	Turbidity	3.6	A	NTU	P413163	
	EPA 300.0 Rev. 2.1	Chloride	4.4		mg Cl/L	P413493	
		Sulfate	0.84		mg SO4/L	P413496	
	SM 2320 B-2011	Total Alkalinity	1.8	I	mg CaCO3/L	P413565	
	SM 2540 C-2011	TDS	29		mg/L	P413673	
	SM 2540 D-2011	TSS	4	I	mg/L	P413516	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P413567	
2323299	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P413505	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P413581	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.2		mg N/L	P413483	
	EPA 365.1 Rev. 2.0	Total-P	0.005		mg P/L	P413540	
	SM 5310 B-2011	Organic Carbon	2.2		mg C/L	P413819	

Ref. Method and Comment:

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

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

Sample Location: Clear Creek upstream of Hwy 87A

Collection Date/Time: 04/28/2022 10:55

Field ID: G4NW0510

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323298	DEP SOP: NU-094-1	Color (true)**	5.2	I	PCU	P413161	
	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P413163	
	EPA 300.0 Rev. 2.1	Chloride	4.6		mg Cl/L	P413493	
		Sulfate	0.30	I	mg SO4/L	P413496	
	SM 2320 B-2011	Total Alkalinity	3.3		mg CaCO3/L	P413565	
	SM 2540 C-2011	TDS	25		mg/L	P413673	
	SM 2540 D-2011	TSS	4	I	mg/L	P413516	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P413567	
2323300	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P413505	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.18	I	mg N/L	P413581	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.6		mg N/L	P413483	
	EPA 365.1 Rev. 2.0	Total-P	0.003	I	mg P/L	P413545	
	SM 5310 B-2011	Organic Carbon	1.4		mg C/L	P413819	

Ref. Method and Comment:

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

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

Sample Location: Coldwater Creek West Fork downstream of HWY 87

Collection Date/Time: 04/28/2022 11:20

Field ID: G4NW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323293	DEP SOP: NU-094-1	Color (true)**	21		PCU	P413160	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P413162	
	EPA 300.0 Rev. 2.1	Chloride	5.6		mg Cl/L	P413493	
		Sulfate	0.98		mg SO4/L	P413496	
	SM 2320 B-2011	Total Alkalinity	2.7		mg CaCO3/L	P413565	
	SM 2540 C-2011	TDS	40		mg/L	P413672	
	SM 2540 D-2011	TSS	4	I	mg/L	P413515	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P413567	
2323294	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P413505	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.24		mg N/L	P413581	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.9		mg N/L	P413483	
	EPA 365.1 Rev. 2.0	Total-P	0.007		mg P/L	P413409	
	SM 5310 B-2011	Organic Carbon	1.9		mg C/L	P413819	
2323315	EPA 8321B	Aldicarb	0.020	U	ug/L	P413091	
		Aldicarb Sulfone	0.0020	U	ug/L	P413091	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P413091	
		Carbaryl	0.0020	U	ug/L	P413091	
		Carbofuran	0.0020	U	ug/L	P413091	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P413091	
		Methiocarb	0.0020	U	ug/L	P413091	
		Methomyl	0.0020	U	ug/L	P413091	
		Oxamyl	0.0020	U	ug/L	P413091	
		Propoxur	0.0020	U	ug/L	P413091	
2323316		Acesulfame K	0.10	UQ	ug/L	P413319	
		2,4-D	0.0020	U	ug/L	P413186	RPD
		AMPA	0.10	UQ	ug/L	P413319	
		2,4,5-T	0.0040	U	ug/L	P413186	RPD
		Sucralose	0.037	I	ug/L	P413319	
		Acetaminophen	0.0080	U	ug/L	P413186	
		Endothall	0.25	UQ	ug/L	P413319	
		Acetamiprid	0.0020	U	ug/L	P413186	
		Glufosinate	0.10	UQ	ug/L	P413319	
		Glyphosate	0.10	UQ	ug/L	P413319	
		Afidopyropen	0.0020	U	ug/L	P413186	MS, RPD
		Bentazon	0.0018	I	ug/L	P413186	MS
		Benzovindiflupyr	0.0020	U	ug/L	P413186	
		Carbamazepine	8.0E-04	U	ug/L	P413186	
		Clothianidin	0.0020	U	ug/L	P413186	
		Dinotefuran	0.0033	I	ug/L	P413186	
		Diuron	0.0020	U	ug/L	P413186	
		Fenuron	0.032	U	ug/L	P413186	
		Fluridone	8.0E-04	U	ug/L	P413186	
		Imazapyr	0.0040	U	ug/L	P413186	

Field ID: G4NW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323316	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P413186	MS, RPD
		Ibuprofen	0.020	U	ug/L	P413186	
		Imidacloprid	0.0020	U	ug/L	P413186	
		Linuron	0.0040	U	ug/L	P413186	
		Mandestrobin	0.0020	U	ug/L	P413186	
		MCP	0.0040	U	ug/L	P413186	
		Naproxen	0.0080	U	ug/L	P413186	
		Primidone	0.0040	U	ug/L	P413186	
		Pyraclostrobin	0.0020	U	ug/L	P413186	
		Silvex	0.0040	U	ug/L	P413186	RPD
		Thiamethoxam	0.0020	U	ug/L	P413186	
		Tolfenpyrad	0.0020	U	ug/L	P413186	
		Triclopyr	0.0040	U	ug/L	P413186	RPD
2323317	EPA 8270E	Aldrin	0.67	U	ng/L	P413312	
		Alpha-BHC	0.10	U	ng/L	P413312	
		Alpha-Chlordane	0.21	U	ng/L	P413312	
		PCB-1016	2.1	U	ng/L	P413312	
		Beta-BHC	0.10	U	ng/L	P413312	
		PCB-1221	2.1	U	ng/L	P413312	
		Beta-Cyfluthrin**	1.3	U	ng/L	P413312	
		PCB-1232	2.1	U	ng/L	P413312	
		Bifenthrin**	0.51	U	ng/L	P413312	
		PCB-1242	2.1	U	ng/L	P413312	
		PCB-1248	2.1	U	ng/L	P413312	
		Chlorothalonil	1.3	U	ng/L	P413312	MS
		PCB-1254	2.1	U	ng/L	P413312	
		Cis-Nonachlor**	0.21	U	ng/L	P413312	
		PCB-1260	2.1	U	ng/L	P413312	
		Cypermethrin	1.5	U	ng/L	P413312	
		Dacthal**	0.15	U	ng/L	P413312	
		DDD-p,p'	0.26	U	ng/L	P413312	
		DDE-p,p'	0.21	U	ng/L	P413312	
		DDT-p,p'	0.26	U	ng/L	P413312	
		Delta-BHC	0.41	U	ng/L	P413312	
		Deltamethrin**	1.3	U	ng/L	P413312	
		Dichlobenil**	0.26	U	ng/L	P413312	
		Dicofol	1.3	U	ng/L	P413312	
		Dieldrin	0.57	I	ng/L	P413312	
		Endosulfan I	0.41	U	ng/L	P413312	
		Endosulfan II	0.41	U	ng/L	P413312	
		Endosulfan Sulfate	0.31	U	ng/L	P413312	
		Endrin	0.41	U	ng/L	P413312	
		Endrin Aldehyde	0.77	U	ng/L	P413312	
		Endrin Ketone	0.83	I	ng/L	P413312	
		Esfenvalerate**	0.77	U	ng/L	P413312	

Field ID: G4NW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323317	EPA 8270E	Ethalfuralin**	0.15	U	ng/L	P413312	
		Fenpropathrin**	0.26	U	ng/L	P413312	
		Gamma-BHC	0.13	U	ng/L	P413312	
		Gamma-Chlordane	0.21	U	ng/L	P413312	
		Heptachlor	0.21	U	ng/L	P413312	
		Heptachlor Epoxide	0.26	U	ng/L	P413312	
		Hexachlorobenzene**	1.0	U	ng/L	P413312	
		Kepone**	5.1	U	ng/L	P413312	
		Lambda-Cyhalothrin**	0.77	U	ng/L	P413312	
		Methoprene**	0.77	U	ng/L	P413312	
		Methoxychlor	0.31	U	ng/L	P413312	
		MGK-264**	0.21	U	ng/L	P413312	
		Mirex	0.72	U	ng/L	P413312	
		Oxychlordane**	0.31	U	ng/L	P413312	
		Permethrin	1.6	U	ng/L	P413312	
		Phenothrin**	0.92	U	ng/L	P413312	
		Piperonyl Butoxide**	0.15	U	ng/L	P413312	
		Prallethrin**	2.1	U	ng/L	P413312	
		Tau-Fluvalinate**	0.26	U	ng/L	P413312	
		Tetramethrin**	0.77	U	ng/L	P413312	
		Trans-Nonachlor**	0.21	U	ng/L	P413312	
		Triclosan Methyl**	0.15	U	ng/L	P413312	
		Trifluralin	0.21	U	ng/L	P413312	
		Chlordane	2.6	U	ng/L	P413312	
		Toxaphene	15	U	ng/L	P413312	
2323318	EPA 8270E	Oxybenzone**	11	U	ng/L	P413289	
		Acetochlor	0.26	U	ng/L	P413289	
		Octinoxate**	180		ng/L	P413289	
		Alachlor	1.1		ng/L	P413289	
		Avobenzone**	110	U	ng/L	P413289	
		Ametryn	0.63	U	ng/L	P413289	
		Atrazine	1.6		ng/L	P413289	
		Atrazine Desethyl	1.6	U	ng/L	P413289	
		Azinphos Methyl	2.1	U	ng/L	P413289	
		Azoxystrobin**	0.53	U	ng/L	P413289	
		Bromacil	0.53	U	ng/L	P413289	
		Butylate	0.42	U	ng/L	P413289	
		Caffeine**	270		ng/L	P413289	
		Carbophenothion	0.21	U	ng/L	P413289	
		Carfentrazone Ethyl**	0.11	U	ng/L	P413289	
		Chlorfenapyr**	0.18	U	ng/L	P413289	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P413289	
		Chlorpyrifos Methyl	0.053	U	ng/L	P413289	
		Coumaphos**	0.53	U	ng/L	P413289	
		Cyanazine	3.4	U	ng/L	P413289	

Field ID: G4NW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323318	EPA 8270E	Cyprodinil**	0.11	U	ng/L	P413289	
		Demeton	1.6	U	ng/L	P413289	
		Diazinon	0.13	U	ng/L	P413289	
		Difenoconazole**	0.63	U	ng/L	P413289	
		Dimethenamid**	0.11	U	ng/L	P413289	
		Dimethomorph**	0.18	U	ng/L	P413289	
		Disulfoton	0.53	U	ng/L	P413289	
		Dithiopyr**	0.18	U	ng/L	P413289	
		EPTC	1.3	U	ng/L	P413289	
		Ethion	0.16	U	ng/L	P413289	
		Ethoprop	0.11	U	ng/L	P413289	
		Etridiazole**	0.16	U	ng/L	P413289	
		Fenamiphos	0.53	U	ng/L	P413289	
		Fenbuconazole**	0.13	U	ng/L	P413289	
		Fipronil	0.26	U	ng/L	P413289	
		Fipronil Desulfinyl**	0.13	U	ng/L	P413289	
		Fipronil Sulfide	0.16	U	ng/L	P413289	
		Fipronil Sulfone	0.16	U	ng/L	P413289	
		Fluazifop-P-butyl**	0.11	U	ng/L	P413289	
		Fludioxonil**	0.13	U	ng/L	P413289	
		Flumioxazin**	1.8	U	ng/L	P413289	
		Flutolanil**	0.22	I	ng/L	P413289	
		Fluxapyroxad**	0.11	U	ng/L	P413289	
		Fonofos	0.21	U	ng/L	P413289	
		Hexazinone	1.9	I	ng/L	P413289	
		Imazalil**	0.79	U	ng/L	P413289	
		Iprodione**	0.63	U	ng/L	P413289	
		Loratadine**	0.11	U	ng/L	P413289	
		Malathion	0.37	U	ng/L	P413289	
		Metalaxyl	0.79	U	ng/L	P413289	
		Metolachlor	20		ng/L	P413289	
		Metribuzin	2.6	U	ng/L	P413289	
		Mevinphos	1.1	U	ng/L	P413289	
		Molinate	0.32	U	ng/L	P413289	
		Myclobutanil**	0.26	U	ng/L	P413289	
		Naled**	1.6	U	ng/L	P413289	
		Napropamide**	0.42	U	ng/L	P413289	
		Norflurazon	0.95	I	ng/L	P413289	
		Oxadiazon	0.74	I	ng/L	P413289	
		Oxyfluorfen**	0.16	U	ng/L	P413289	
		Parathion Ethyl	0.26	U	ng/L	P413289	
		Parathion Methyl	0.58	U	ng/L	P413289	
		Pendimethalin	1.1	U	ng/L	P413289	
		Phenytol**	3.7	U	ng/L	P413289	RPD
		Phorate	0.55	U	ng/L	P413289	

Field ID: G4NW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323318	EPA 8270E	Prodiamine**	0.18	U	ng/L	P413289	
		Prometon	0.95	U	ng/L	P413289	
		Prometryn	0.21	U	ng/L	P413289	
		Pronamide**	0.16	U	ng/L	P413289	
		Propanil**	0.13	U	ng/L	P413289	
		Propargite**	1.6	U	ng/L	P413289	
		Propiconazole**	0.53	U	ng/L	P413289	
		Pyraflufen Ethyl**	0.26	U	ng/L	P413289	
		Pyridaben**	0.47	U	ng/L	P413289	
		Pyriproxyfen**	0.13	U	ng/L	P413289	
		Simazine	0.53	U	ng/L	P413289	
		Stirophos**	0.13	U	ng/L	P413289	
		Sulfentrazone**	0.53	U	ng/L	P413289	
		Tebuconazole**	0.53	U	ng/L	P413289	
		Terbufos	0.11	U	ng/L	P413289	
		Terbuthylazine	0.45	U	ng/L	P413289	
		Thiobencarb**	0.63	U	ng/L	P413289	
		Triadimefon**	0.26	U	ng/L	P413289	

Ref. Method and Comment:

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

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

EPA 8321B: Some analytes were reported beyond holding time due to technical difficulties.

Sample Location: Coldwater Creek West Fork on CR 178

Collection Date/Time: 04/28/2022 11:55

Field ID: G4NW0016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2323301	DEP SOP: NU-094-1	Color (true)**	24		PCU	P413161	
	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P413163	
	EPA 300.0 Rev. 2.1	Chloride	5.8		mg Cl/L	P413493	
		Sulfate	1.4		mg SO4/L	P413496	
	SM 2320 B-2011	Total Alkalinity	3.6		mg CaCO3/L	P413565	
	SM 2540 C-2011	TDS	41		mg/L	P413673	
	SM 2540 D-2011	TSS	5	I	mg/L	P413516	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P413567	
2323302	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P413505	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.22		mg N/L	P413581	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.6		mg N/L	P413483	
	EPA 365.1 Rev. 2.0	Total-P	0.064		mg P/L	P413545	
	SM 5310 B-2011	Organic Carbon	2.3		mg C/L	P413819	

Ref. Method and Comment:

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

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P413160

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P413161

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413162

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413163

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413249

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: P413249

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413249

Component	Result	Code	Units
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: P413493

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413496

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413436

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413505

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413580

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413581

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413657

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413483

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413409

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413540

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413545

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413556

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

Reference Method: EPA 8270E
Batch ID: P413289

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413289

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413289

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413289

Component	Result	Code	Units
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 8270E

Batch ID: P413312

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413312

Component	Result	Code	Units
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413312

Component	Result	Code	Units
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P413312

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276
Batch ID: P413312

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

Reference Method: EPA 8321B
Batch ID: P413091

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: P413186

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P413319

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: SM 2320 B-2011
Batch ID: P413565

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

Reference Method: SM 2540 C-2011
Batch ID: P413672

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P413673

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P413515

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P413516

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P413567

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P413819

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P413160

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.5		P	85 - 115

Reference Method: DEP SOP: NU-094-1
Batch ID: P413161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.7		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413162

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.1		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413163

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413249

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	106		P	85 - 115
Magnesium	106		P	85 - 115
Potassium	105		P	85 - 115
Sodium	100		P	85 - 115
Strontium	102		P	85 - 115
Tin	104		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	96.3		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413249

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	95.4		P	85 - 115
Antimony	97.1		P	85 - 115
Arsenic	95.5		P	85 - 115
Barium	101		P	85 - 115
Beryllium	92.1		P	85 - 115
Boron	97.0		P	85 - 115
Cadmium	95.0		P	85 - 115
Chromium	92.6		P	85 - 115
Cobalt	93.5		P	85 - 115
Copper	91.2		P	85 - 115
Lead	95.3		P	85 - 115
Manganese	93.0		P	85 - 115
Molybdenum	95.2		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413249

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Nickel	93.1		P	85 - 115
Selenium	94.6		P	85 - 115
Silver	92.5		P	85 - 115
Thallium	97.4		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413496

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413436

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413505

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413580

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413581

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413657

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413483

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P413409

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P413540

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P413545

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P413556

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

Reference Method: EPA 8270E
 Batch ID: P413289

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	106		P	70 - 121
Alachlor	103		P	68 - 119
Ametryn	108		P	64 - 139
Atrazine	102		P	76 - 120
Atrazine Desethyl	61.2		P	44 - 126
Avobenzone	93.2		P	76 - 212
Azinphos Methyl	151		P	43 - 192
Azoxystrobin	114		P	36 - 224
Bromacil	85.7		P	52 - 121
Butylate	36.5		P	28 - 91.0
Caffeine	66.1		P	50 - 134
Carbophenothion	90.4		P	56 - 129
Carfentrazone Ethyl	99.4		P	60 - 141
Chlorfenapyr	92.3		P	56 - 115
Chlorpyrifos Ethyl	96.7		P	60 - 118
Chlorpyrifos Methyl	96.5		P	68 - 119
Coumaphos	90.0		P	18 - 250
Cyanazine	107		P	61 - 250
Cyprodinil	104		P	55 - 145
Demeton	77.2		P	30 - 159
Diazinon	105		P	70 - 123
Difenoconazole	142		P	49 - 204
Dimethenamid	83.8		P	64 - 115
Dimethomorph	113		P	12 - 219
Disulfoton	89.2		P	44 - 125
Dithiopyr	102		P	64 - 115
EPTC	48.8		P	28 - 86.0
Ethion	66.5		P	33 - 125

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P413289

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ethoprop	78.8		P	64 - 116
Etridiazole	56.0		P	34 - 91.0
Fenamiphos	92.6		P	12 - 127
Fenbuconazole	95.6		P	59 - 151
Fipronil	101		P	67 - 129
Fipronil Desulfinyl	115		P	65 - 127
Fipronil Sulfide	81.5		P	61 - 116
Fipronil Sulfone	94.7		P	55 - 117
Fluazifop-P-butyl	106		P	62 - 127
Fludioxonil	107		P	62 - 128
Flumioxazin	129		P	33 - 250
Flutolanil	101		P	56 - 127
Fluxapyroxad	87.4		P	45 - 128
Fonofos	81.1		P	62 - 111
Hexazinone	83.5		P	46 - 139
Imazalil	72.6		P	38 - 142
Iprodione	76.7		P	47 - 135
Loratadine	101		P	10 - 244
Malathion	95.3		P	61 - 139
Metalaxyl	104		P	10 - 119
Metolachlor	102		P	65 - 118
Metribuzin	102		P	51 - 250
Mevinphos	73.4		P	53 - 121
Molinate	61.0		P	42 - 96.0
Myclobutanil	100		P	55 - 128
Naled	92.6		P	10 - 98.0
Napropamide	98.0		P	49 - 121
Norflurazon	90.9		P	61 - 126
Octinoxate	80.1		P	30 - 159
Oxadiazon	94.7		P	59 - 116
Oxybenzone	64.6		P	61 - 139
Oxyfluorfen	106		P	64 - 137
Parathion Ethyl	97.6		P	70 - 112
Parathion Methyl	102		P	76 - 133
Pendimethalin	77.1		P	52 - 117
Phenytoin	33.6		P	10 - 199
Phorate	70.4		P	48 - 121
Prodiamine	44.9		P	26 - 142
Prometon	82.2		P	43 - 123
Prometryn	103		P	66 - 127
Pronamide	102		P	75 - 121
Propanil	96.6		P	45 - 150
Propargite	66.9		P	42 - 208
Propiconazole	85.6		P	60 - 125
Pyraflufen Ethyl	89.9		P	70 - 138
Pyridaben	93.1		P	35 - 245
Pyriproxyfen	38.3		P	30 - 149
Simazine	92.1		P	72 - 125
Stirophos	64.2		P	29 - 164
Sulfentrazone	82.1		P	21 - 139
Tebuconazole	51.3		P	10 - 115
Terbufos	107		P	60 - 123

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P413289

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Terbutylazine	99.4		P	72 - 115
Thiobencarb	92.8		P	31 - 139
Triadimefon	77.9		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P413312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	48.5		P	10 - 93.0
Alpha-BHC	89.6		P	75 - 106
Alpha-Chlordane	65.5		P	50 - 109
Beta-BHC	96.0		P	36 - 138
Beta-Cyfluthrin	46.9		P	23 - 167
Bifenthrin	31.0		P	11 - 123
Chlorothalonil	75.8		P	27 - 190
Cis-Nonachlor	62.6		P	40 - 111
Cypermethrin	47.0		P	25 - 155
Dacthal	88.8		P	72 - 119
DDD-p,p'	69.8		P	47 - 108
DDE-p,p'	67.4		P	48 - 107
DDT-p,p'	63.4		P	49 - 111
Delta-BHC	100		P	54 - 138
Deltamethrin	54.0		P	22 - 189
Dichlobenil	89.4		P	32 - 113
Dicofol	62.7		P	50 - 108
Dieldrin	71.3		P	56 - 110
Endosulfan I	72.0		P	60 - 105
Endosulfan II	84.0		P	50 - 120
Endosulfan Sulfate	92.7		P	55 - 121
Endrin	76.0		P	31 - 119
Endrin Aldehyde	84.8		P	36 - 116
Endrin Ketone	91.9		P	69 - 177
Esfenvalerate	43.5		P	10 - 179
Ethalfuralin	61.9		P	49 - 99.0
Fenpropathrin	52.0		P	35 - 119
Gamma-BHC	93.7		P	69 - 120
Gamma-Chlordane	59.5		P	45 - 107
Heptachlor	59.5		P	41 - 100
Heptachlor Epoxide	70.6		P	58 - 106
Hexachlorobenzene	67.0		P	39 - 100
Kepone	94.3		P	10 - 191
Lambda-Cyhalothrin	39.3		P	21 - 206
Methoprene	31.2		P	10 - 129
Methoxychlor	77.1		P	61 - 111
MGK-264	82.1		P	20 - 123
Mirex	40.5		P	10 - 182
Oxychlordane	64.0		P	39 - 110
PCB-1016	93.3		P	49 - 111
PCB-1260	99.5		P	42 - 116
Permethrin	45.0		P	26 - 152
Phenothrin	30.8		P	10 - 109
Piperonyl Butoxide	107		P	19 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P413312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prallethrin	70.3		P	14 - 109
Tau-Fluvalinate	35.5		P	16 - 134
Tetramethrin	77.1		P	10 - 125
Trans-Nonachlor	56.6		P	45 - 107
Triclosan Methyl	77.8		P	60 - 110
Trifluralin	62.7		P	44 - 101

Reference Method: EPA 8276

Batch ID: P413312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	95.0		P	61 - 118
Toxaphene	96.4		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P413091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	62.6		P	40 - 150
Aldicarb	53.7		P	30 - 150
Aldicarb Sulfone	94.0		P	40 - 150
Aldicarb Sulfoxide	94.1		P	40 - 150
Carbaryl	56.2		P	40 - 150
Carbofuran	61.9		P	40 - 150
Methiocarb	60.4		P	40 - 150
Methomyl	87.6		P	40 - 150
Oxamyl	92.8		P	40 - 150
Propoxur	62.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P413186

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	74.3		P	40 - 150
2,4,5-T	84.2		P	40 - 150
Acetaminophen	92.9		P	30 - 150
Acetamiprid	65.2		P	40 - 150
Afidopyropen	30.1		P	30 - 150
Bentazon	70.7		P	30 - 150
Benzovindiflupyr	68.2		P	40 - 150
Carbamazepine	61.5		P	40 - 150
Clothianidin	91.8		P	40 - 150
Dinotefuran	113		P	40 - 150
Diuron	73.5		P	40 - 150
Fenuron	101		P	40 - 150
Fluridone	74.0		P	40 - 150
Hydrocodone	78.8		P	40 - 150
Ibuprofen	73.3		P	40 - 150
Imazapyr	84.6		P	40 - 150
Imidacloprid	73.9		P	40 - 150
Linuron	69.4		P	40 - 150
Mandestrobin	64.8		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P413186

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCPPE	102		P	40 - 150
Naproxen	57.9		P	40 - 150
Primidone	95.4		P	40 - 150
Pyraclostrobin	59.8		P	40 - 150
Silvex	89.8		P	40 - 150
Thiamethoxam	86.3		P	40 - 150
Tolfenpyrad	35.5		P	30 - 150
Triclopyr	81.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P413319

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	107		P	40 - 150
AMPA	89.0		P	40 - 150
Endothall	98.5		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	91.0		P	40 - 150
Sucralose	98.9		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P413565

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.3		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P413567

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

Reference Method: SM 5310 B-2011

Batch ID: P413819

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P413249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323319	Calcium	105	103	P/P	80 - 120
2323319	Iron	108	106	P/P	80 - 120
2323319	Magnesium	107	104	P/P	80 - 120
2323319	Potassium	103	102	P/P	80 - 120
2323319	Sodium	100	98.1	P/P	80 - 120
2323319	Strontium	100	100	P/P	80 - 120
2323319	Tin	103	102	P/P	80 - 120
2323319	Titanium	102	100	P/P	80 - 120
2323319	Vanadium	96.2	94.2	P/P	80 - 120
2323319	Zinc	103	101	P/P	80 - 120
2323320	Calcium	105		P	80 - 120
2323320	Iron	108		P	80 - 120
2323320	Magnesium	107		P	80 - 120
2323320	Potassium	103		P	80 - 120
2323320	Sodium	104		P	80 - 120
2323320	Strontium	102		P	80 - 120
2323320	Tin	104		P	80 - 120
2323320	Titanium	103		P	80 - 120
2323320	Vanadium	98.3		P	80 - 120
2323320	Zinc	106		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P413249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323319	Aluminum	95.7	99.1	P/P	80 - 120
2323319	Antimony	99.9	103	P/P	80 - 120
2323319	Arsenic	94.1	98.3	P/P	80 - 120
2323319	Barium	101	104	P/P	80 - 120
2323319	Beryllium	92.9	93.1	P/P	80 - 120
2323319	Boron	97.2	99.9	P/P	80 - 120
2323319	Cadmium	98.0	101	P/P	80 - 120
2323319	Chromium	95.5	98.8	P/P	80 - 120
2323319	Cobalt	93.3	95.8	P/P	80 - 120
2323319	Copper	92.3	96.1	P/P	80 - 120
2323319	Lead	96.5	99.8	P/P	80 - 120
2323319	Manganese	96.9	99.2	P/P	80 - 120
2323319	Molybdenum	96.4	99.5	P/P	80 - 120
2323319	Nickel	93.9	97.2	P/P	80 - 120
2323319	Selenium	92.1	95.6	P/P	80 - 120
2323319	Silver	94.0	92.3	P/P	80 - 120
2323319	Thallium	97.5	102	P/P	80 - 120
2323320	Aluminum	105		P	80 - 120
2323320	Antimony	110		P	80 - 120
2323320	Arsenic	107		P	80 - 120
2323320	Barium	111		P	80 - 120
2323320	Beryllium	104		P	80 - 120
2323320	Boron	106		P	80 - 120
2323320	Cadmium	107		P	80 - 120
2323320	Chromium	106		P	80 - 120
2323320	Cobalt	105		P	80 - 120
2323320	Copper	105		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323320	Lead	108		P	80 - 120
2323320	Manganese	106		P	80 - 120
2323320	Molybdenum	108		P	80 - 120
2323320	Nickel	106		P	80 - 120
2323320	Selenium	105		P	80 - 120
2323320	Silver	92.8		P	80 - 120
2323320	Thallium	109		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323201	Chloride	96.9		P	90 - 110
2323245	Chloride	98.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323201	Sulfate	96.3		P	90 - 110
2323245	Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413436

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323358	Ammonia-N	102	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413505

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323296	Ammonia-N	94.8	95.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413580

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319290	Kjeldahl Nitrogen	103	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413483

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323358	NO2NO3-N	95.4	95.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323202	Total-P	104	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323299	Total-P	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413545

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323535	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413556

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323554	Total-P	100	101	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P413289

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323548	Acetochlor	96.7	105	P/P	65 - 124
2323548	Alachlor	91.6	101	P/P	61 - 121
2323548	Ametryn	112	98.8	P/P	52 - 216
2323548	Atrazine	96.8	101	P/P	68 - 133
2323548	Atrazine Desethyl	67.2	66.6	P/P	15 - 160
2323548	Avobenzone	115	115	P/P	59 - 206
2323548	Azinphos Methyl	119	137	P/P	40 - 292
2323548	Azoxystrobin	145	121	P/P	12 - 242
2323548	Bromacil	85.9	85.1	P/P	54 - 167
2323548	Butylate	40.5	42.4	P/P	14 - 94.0
2323548	Caffeine	70.4	66.1	P/P	10 - 226
2323548	Carbophenothion	67.8	77.1	P/P	49 - 122
2323548	Carfentrazone Ethyl	77.7	78.8	P/P	53 - 138
2323548	Chlorfenapyr	72.5	89.0	P/P	50 - 150
2323548	Chlorpyrifos Ethyl	83.4	99.0	P/P	52 - 122
2323548	Chlorpyrifos Methyl	88.0	105	P/P	66 - 117
2323548	Coumaphos	74.5	86.1	P/P	50 - 220
2323548	Cyanazine	87.8	108	P/P	43 - 245
2323548	Cyprodinil	85.2	88.9	P/P	50 - 150
2323548	Demeton	72.1	87.1	P/P	43 - 188
2323548	Diazinon	92.8	110	P/P	69 - 131
2323548	Difenoconazole	97.0	123	P/P	34 - 231
2323548	Dimethenamid	69.8	83.0	P/P	55 - 118
2323548	Dimethomorph	95.9	88.0	P/P	50 - 150
2323548	Disulfoton	77.7	96.9	P/P	38 - 141
2323548	Dithiopyr	99.1	94.0	P/P	42 - 116
2323548	EPTC	45.0	52.5	P/P	18 - 85.0
2323548	Ethion	34.2	64.9	P/P	10 - 131
2323548	Ethoprop	81.3	83.0	P/P	65 - 129
2323548	Etridiazole	56.8	64.4	P/P	50 - 150
2323548	Fenamiphos	70.1	86.0	P/P	31 - 137
2323548	Fenbuconazole	83.2	89.9	P/P	57 - 160
2323548	Fipronil	89.3	99.6	P/P	62 - 132
2323548	Fipronil Desulfinyl	96.3	103	P/P	57 - 131

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P413289

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323548	Fipronil Sulfide	81.4	88.5	P/P	15 - 138
2323548	Fipronil Sulfone	73.8	81.2	P/P	21 - 134
2323548	Fluazifop-P-butyl	80.8	80.1	P/P	54 - 133
2323548	Fludioxonil	82.4	84.0	P/P	58 - 127
2323548	Flumioxazin	116	125	P/P	33 - 300
2323548	Flutolanil	83.7	86.1	P/P	42 - 130
2323548	Fluxapyroxad	65.8	69.0	P/P	23 - 141
2323548	Fonofos	73.2	93.6	P/P	58 - 119
2323548	Hexazinone	83.8	86.0	P/P	68 - 172
2323548	Imazalil	137	85.4	P/P	48 - 283
2323548	Iprodione	68.6	79.0	P/P	38 - 140
2323548	Loratadine	89.9	75.7	P/P	50 - 150
2323548	Malathion	88.1	102	P/P	40 - 137
2323548	Metalaxyl	79.1	101	P/P	21 - 129
2323548	Metolachlor	91.3	93.1	P/P	55 - 122
2323548	Metribuzin	102	94.4	P/P	38 - 187
2323548	Mevinphos	74.3	87.7	P/P	54 - 134
2323548	Molinate	63.6	71.5	P/P	41 - 97.0
2323548	Myclobutanil	82.6	90.4	P/P	56 - 125
2323548	Naled	78.3	99.7	P/P	10 - 108
2323548	Napropamide	71.6	76.2	P/P	50 - 150
2323548	Norflurazon	77.8	75.7	P/P	32 - 122
2323548	Octinoxate	112	107	P/P	25 - 150
2323548	Oxadiazon	75.7	73.1	P/P	40 - 119
2323548	Oxybenzone	82.9	82.7	P/P	59 - 147
2323548	Oxyfluorfen	80.9	90.6	P/P	61 - 153
2323548	Parathion Ethyl	82.2	97.6	P/P	59 - 130
2323548	Parathion Methyl	97.2	111	P/P	65 - 155
2323548	Pendimethalin	84.9	89.9	P/P	49 - 138
2323548	Phenytoin	51.3	72.7	P/P	50 - 200
2323548	Phorate	77.7	91.1	P/P	54 - 161
2323548	Prodiamine	71.1	63.7	P/P	33 - 161
2323548	Prometon	70.6	79.8	P/P	48 - 140
2323548	Prometryn	84.8	93.2	P/P	55 - 134
2323548	Pronamide	96.5	111	P/P	66 - 137
2323548	Propanil	79.4	97.7	P/P	50 - 150
2323548	Propargite	96.7	103	P/P	50 - 200
2323548	Propiconazole	67.7	67.3	P/P	36 - 150
2323548	Pyraflufen Ethyl	79.3	67.4	P/P	50 - 150
2323548	Pyridaben	74.7	94.9	P/P	50 - 200
2323548	Pyriproxyfen	32.9	35.8	P/P	10 - 165
2323548	Simazine	92.6	90.8	P/P	57 - 145
2323548	Stirophos	86.7	103	P/P	50 - 150
2323548	Sulfentrazone	81.0	77.3	P/P	34 - 140
2323548	Tebuconazole	29.7	39.2	P/P	10 - 127
2323548	Terbufos	97.6	120	P/P	59 - 138
2323548	Terbutylazine	82.3	107	P/P	68 - 119
2323548	Thiobencarb	86.7	85.7	P/P	50 - 150
2323548	Triadimefon	82.9	75.5	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P413312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323155	PCB-1016	86.1	86.7	P/P	46 - 110
2323155	PCB-1260	85.0	87.5	P/P	42 - 111
2323900	Aldrin	67.4	68.4	P/P	10 - 89.0
2323900	Alpha-BHC	91.6	95.6	P/P	71 - 105
2323900	Alpha-Chlordane	86.0	95.6	P/P	43 - 107
2323900	Beta-BHC	114	112	P/P	57 - 152
2323900	Beta-Cyfluthrin	88.8	97.1	P/P	29 - 186
2323900	Bifenthrin	81.8	78.8	P/P	19 - 119
2323900	Chlorothalonil	148	253	P/F	10 - 245
2323900	Cis-Nonachlor	85.9	79.2	P/P	36 - 110
2323900	Cypermethrin	87.9	96.0	P/P	24 - 169
2323900	Dacthal	87.3	97.2	P/P	62 - 115
2323900	DDD-p,p'	76.3	78.4	P/P	36 - 109
2323900	DDE-p,p'	81.3	85.1	P/P	30 - 114
2323900	DDT-p,p'	79.7	87.6	P/P	42 - 108
2323900	Delta-BHC	130	144	P/P	60 - 164
2323900	Deltamethrin	109	132	P/P	10 - 210
2323900	Dichlobenil	58.8	80.8	P/P	23 - 108
2323900	Dicofol	72.8	80.9	P/P	44 - 109
2323900	Dieldrin	85.5	86.7	P/P	37 - 119
2323900	Endosulfan I	86.4	97.0	P/P	52 - 105
2323900	Endosulfan II	93.1	110	P/P	35 - 127
2323900	Endosulfan Sulfate	84.0	87.9	P/P	39 - 130
2323900	Endrin	81.1	84.9	P/P	30 - 116
2323900	Endrin Aldehyde	74.1	82.4	P/P	20 - 110
2323900	Endrin Ketone	88.4	98.4	P/P	48 - 134
2323900	Esfenvalerate	93.0	112	P/P	10 - 199
2323900	Ethalfuralin	76.8	84.8	P/P	48 - 95.0
2323900	Fenpropathrin	83.4	88.6	P/P	37 - 121
2323900	Gamma-BHC	101	104	P/P	61 - 126
2323900	Gamma-Chlordane	79.3	82.2	P/P	39 - 105
2323900	Heptachlor	70.5	79.2	P/P	38 - 96.0
2323900	Heptachlor Epoxide	81.8	92.1	P/P	42 - 114
2323900	Hexachlorobenzene	77.1	84.6	P/P	39 - 93.0
2323900	Kepone	110	97.9	P/P	10 - 215
2323900	Lambda-Cyhalothrin	76.7	91.2	P/P	10 - 204
2323900	Methoprene	75.2	79.5	P/P	17 - 108
2323900	Methoxychlor	86.5	97.2	P/P	56 - 115
2323900	MGK-264	83.1	92.9	P/P	35 - 120
2323900	Mirex	77.3	81.6	P/P	10 - 178
2323900	Oxychlordane	80.5	82.9	P/P	47 - 91.0
2323900	Permethrin	81.0	92.9	P/P	27 - 170
2323900	Phenothrin	69.8	79.4	P/P	10 - 133
2323900	Piperonyl Butoxide	107	113	P/P	23 - 150
2323900	Prallethrin	78.8	79.0	P/P	21 - 113
2323900	Tau-Fluvalinate	79.9	91.8	P/P	16 - 158
2323900	Tetramethrin	103	117	P/P	22 - 132
2323900	Trans-Nonachlor	87.8	89.8	P/P	43 - 102
2323900	Triclosan Methyl	81.6	86.6	P/P	49 - 109
2323900	Trifluralin	78.1	82.1	P/P	48 - 93.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P413312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323155	Chlordane	74.4	81.9	P/P	55 - 128
2323155	Toxaphene	97.3	95.9	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P413091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322134	3-Hydroxycarbofuran	57.4	53.3	P/P	40 - 150
2322134	Aldicarb	46.1	39.9	P/P	30 - 150
2322134	Aldicarb Sulfone	83.9	85.2	P/P	40 - 150
2322134	Aldicarb Sulfoxide	47.2	47.0	P/P	40 - 150
2322134	Carbaryl	51.8	50.6	P/P	40 - 150
2322134	Carbofuran	54.2	55.9	P/P	40 - 150
2322134	Methiocarb	45.6	47.5	P/P	40 - 150
2322134	Methomyl	58.6	56.5	P/P	40 - 150
2322134	Oxamyl	70.9	68.5	P/P	40 - 150
2322134	Propoxur	50.3	51.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P413186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323084	2,4-D	96.4	60.3	P/P	40 - 150
2323084	2,4,5-T	93.8	63.6	P/P	40 - 150
2323084	Acetaminophen	127	130	P/P	30 - 150
2323084	Acetamiprid	47.3	43.7	P/P	40 - 150
2323084	Afidopyropen	52.6	31.6	P/F	40 - 150
2323084	Bentazon	34.9	24.8	P/F	30 - 150
2323084	Benzovindiflupyr	54.5	45.0	P/P	40 - 150
2323084	Carbamazepine	60.0	52.3	P/P	40 - 150
2323084	Clothianidin	44.7	44.5	P/P	40 - 150
2323084	Dinotefuran	98.6	93.8	P/P	40 - 150
2323084	Diuron	49.5	42.8	P/P	40 - 150
2323084	Fenuron	53.3	52.0	P/P	40 - 150
2323084	Fluridone	59.6	47.0	P/P	40 - 150
2323084	Hydrocodone	50.1	36.8	P/F	40 - 150
2323084	Ibuprofen	62.3	52.6	P/P	40 - 150
2323084	Imazapyr	74.2	69.3	P/P	40 - 150
2323084	Imidacloprid	55.3	51.4	P/P	40 - 150
2323084	Linuron	57.7	49.9	P/P	40 - 150
2323084	Mandestrobin	57.1	46.1	P/P	40 - 150
2323084	MCCP	126	96.5	P/P	40 - 150
2323084	Naproxen	60.1	46.1	P/P	40 - 150
2323084	Primidone	71.9	67.7	P/P	40 - 150
2323084	Pyraclostrobin	59.8	47.0	P/P	40 - 150
2323084	Silvex	106	59.7	P/P	40 - 150
2323084	Thiamethoxam	52.8	51.3	P/P	40 - 150
2323084	Tolfenpyrad	41.6	31.7	P/P	30 - 150
2323084	Triclopyr	93.4	60.8	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P413319

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323213	Acesulfame K	74.3	75.6	P/P	40 - 150
2323213	AMPA	61.0	64.8	P/P	40 - 150
2323213	Endothall	98.8	103	P/P	40 - 150
2323213	Glufosinate	73.9	76.4	P/P	40 - 150
2323213	Glyphosate	71.2	79.0	P/P	40 - 150
2323213	Sucralose	97.9	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P413567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323243	Fluoride	100	99.2	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P413819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2324925	Organic Carbon	96.0	98.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P413160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323196	Color (true)	4.41	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P413161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323297	Color (true)	6.02	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323163	Turbidity	18.0	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323297	Turbidity	2.77	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323319	Calcium	1.81	Spike	P	0 - 20
2323319	Iron	1.17	Spike	P	0 - 20
2323319	Magnesium	1.88	Spike	P	0 - 20
2323319	Potassium	1.06	Spike	P	0 - 20
2323319	Sodium	1.35	Spike	P	0 - 20
2323319	Strontium	0.257	Spike	P	0 - 20
2323319	Tin	0.796	Spike	P	0 - 20
2323319	Titanium	1.52	Spike	P	0 - 20
2323319	Vanadium	2.18	Spike	P	0 - 20
2323319	Zinc	2.56	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323319	Aluminum	3.26	Spike	P	0 - 20
2323319	Antimony	3.28	Spike	P	0 - 20
2323319	Arsenic	4.26	Spike	P	0 - 20
2323319	Barium	2.46	Spike	P	0 - 20
2323319	Beryllium	0.239	Spike	P	0 - 20
2323319	Boron	2.50	Spike	P	0 - 20
2323319	Cadmium	3.23	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P413249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323319	Chromium	3.41	Spike	P	0 - 20
2323319	Cobalt	2.62	Spike	P	0 - 20
2323319	Copper	4.07	Spike	P	0 - 20
2323319	Lead	3.40	Spike	P	0 - 20
2323319	Manganese	1.85	Spike	P	0 - 20
2323319	Molybdenum	3.17	Spike	P	0 - 20
2323319	Nickel	3.43	Spike	P	0 - 20
2323319	Selenium	3.69	Spike	P	0 - 20
2323319	Silver	1.75	Spike	P	0 - 20
2323319	Thallium	4.91	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P413493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323201	Chloride	0.526	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P413496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323201	Sulfate	0.544	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P413436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323358	Ammonia-N	1.91	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P413505

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323296	Ammonia-N	0.182	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P413580

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319290	Kjeldahl Nitrogen	3.20	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P413581

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413581

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323110	Kjeldahl Nitrogen	0.103	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323554	Kjeldahl Nitrogen	0.590	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413483

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323358	NO2NO3-N	0.501	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323202	Total-P	2.34	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323299	Total-P	0.0975	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323535	Total-P	0.408	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413556

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323554	Total-P	0.833	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P413289

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323548	Acetochlor	8.19	Spike	P	0 - 27
2323548	Alachlor	9.99	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P413289

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323548	Ametryn	12.2	Spike	P	0 - 34
2323548	Atrazine	4.40	Spike	P	0 - 41
2323548	Atrazine Desethyl	0.954	Spike	P	0 - 38
2323548	Avobenzone	0.497	Spike	P	0 - 30
2323548	Azinphos Methyl	14.7	Spike	P	0 - 62
2323548	Azoxystrobin	18.0	Spike	P	0 - 32
2323548	Bromacil	0.899	Spike	P	0 - 30
2323548	Butylate	4.53	Spike	P	0 - 59
2323548	Caffeine	5.97	Spike	P	0 - 60
2323548	Carbophenothion	12.8	Spike	P	0 - 25
2323548	Carfentrazone Ethyl	1.46	Spike	P	0 - 26
2323548	Chlorfenapyr	20.4	Spike	P	0 - 30
2323548	Chlorpyrifos Ethyl	17.2	Spike	P	0 - 27
2323548	Chlorpyrifos Methyl	17.8	Spike	P	0 - 26
2323548	Coumaphos	14.4	Spike	P	0 - 30
2323548	Cyanazine	21.0	Spike	P	0 - 58
2323548	Cyprodinil	4.18	Spike	P	0 - 30
2323548	Demeton	18.8	Spike	P	0 - 25
2323548	Diazinon	16.7	Spike	P	0 - 29
2323548	Difenoconazole	23.8	Spike	P	0 - 25
2323548	Dimethenamid	17.3	Spike	P	0 - 30
2323548	Dimethomorph	8.62	Spike	P	0 - 30
2323548	Disulfoton	21.9	Spike	P	0 - 33
2323548	Dithiopyr	5.25	Spike	P	0 - 22
2323548	EPTC	15.4	Spike	P	0 - 38
2323548	Ethion	61.8	Spike	P	0 - 79
2323548	Ethoprop	2.10	Spike	P	0 - 23
2323548	Etridiazole	12.5	Spike	P	0 - 30
2323548	Fenamiphos	20.4	Spike	P	0 - 58
2323548	Fenbuconazole	7.74	Spike	P	0 - 37
2323548	Fipronil	10.9	Spike	P	0 - 33
2323548	Fipronil Desulfinyl	6.59	Spike	P	0 - 26
2323548	Fipronil Sulfide	8.39	Spike	P	0 - 37
2323548	Fipronil Sulfone	9.56	Spike	P	0 - 50
2323548	Fluazifop-P-butyl	0.884	Spike	P	0 - 24
2323548	Fludioxonil	1.98	Spike	P	0 - 26
2323548	Flumioxazin	7.74	Spike	P	0 - 37
2323548	Flutolanil	2.92	Spike	P	0 - 26
2323548	Fluxapyroxad	4.69	Spike	P	0 - 34
2323548	Fonofos	24.5	Spike	P	0 - 27
2323548	Hexazinone	2.58	Spike	P	0 - 36
2323548	Imazalil	46.2	Spike	P	0 - 65
2323548	Iprodione	14.1	Spike	P	0 - 33
2323548	Loratadine	17.2	Spike	P	0 - 30
2323548	Malathion	14.7	Spike	P	0 - 44
2323548	Metalaxyl	24.6	Spike	P	0 - 38
2323548	Metolachlor	1.99	Spike	P	0 - 36
2323548	Metribuzin	7.70	Spike	P	0 - 63
2323548	Mevinphos	16.5	Spike	P	0 - 26
2323548	Molinate	11.8	Spike	P	0 - 40
2323548	Myclobutanil	9.06	Spike	P	0 - 21

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P413289

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323548	Naled	24.0	Spike	P	0 - 26
2323548	Napropamide	6.20	Spike	P	0 - 30
2323548	Norflurazon	2.82	Spike	P	0 - 24
2323548	Octinoxate	4.37	Spike	P	0 - 30
2323548	Oxadiazon	3.43	Spike	P	0 - 27
2323548	Oxybenzone	0.232	Spike	P	0 - 30
2323548	Oxyfluorfen	11.3	Spike	P	0 - 24
2323548	Parathion Ethyl	17.2	Spike	P	0 - 28
2323548	Parathion Methyl	13.5	Spike	P	0 - 27
2323548	Pendimethalin	5.70	Spike	P	0 - 31
2323548	Phenytoin	34.5	Spike	F	0 - 30
2323548	Phorate	15.9	Spike	P	0 - 27
2323548	Prodiamine	10.9	Spike	P	0 - 52
2323548	Prometon	12.2	Spike	P	0 - 31
2323548	Prometryn	9.44	Spike	P	0 - 28
2323548	Pronamide	14.3	Spike	P	0 - 26
2323548	Propanil	20.7	Spike	P	0 - 30
2323548	Propargite	6.30	Spike	P	0 - 30
2323548	Propiconazole	0.660	Spike	P	0 - 31
2323548	Pyraflufen Ethyl	16.2	Spike	P	0 - 30
2323548	Pyridaben	23.8	Spike	P	0 - 30
2323548	Pyriproxyfen	8.37	Spike	P	0 - 50
2323548	Simazine	1.96	Spike	P	0 - 29
2323548	Stiropfos	17.6	Spike	P	0 - 30
2323548	Sulfentrazone	4.70	Spike	P	0 - 33
2323548	Tebuconazole	27.6	Spike	P	0 - 44
2323548	Terbufos	20.4	Spike	P	0 - 29
2323548	Terbuthylazine	25.9	Spike	P	0 - 27
2323548	Thiobencarb	1.22	Spike	P	0 - 30
2323548	Triadimefon	9.38	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P413312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323155	PCB-1016	0.742	Spike	P	0 - 32
2323155	PCB-1260	2.90	Spike	P	0 - 31
2323900	Aldrin	1.40	Spike	P	0 - 37
2323900	Alpha-BHC	4.30	Spike	P	0 - 16
2323900	Alpha-Chlordane	10.5	Spike	P	0 - 28
2323900	Beta-BHC	1.12	Spike	P	0 - 32
2323900	Beta-Cyfluthrin	8.90	Spike	P	0 - 41
2323900	Bifenthrin	3.82	Spike	P	0 - 36
2323900	Chlorothalonil	52.7	Spike	P	0 - 54
2323900	Cis-Nonachlor	8.15	Spike	P	0 - 33
2323900	Cypermethrin	8.85	Spike	P	0 - 38
2323900	Dacthal	10.8	Spike	P	0 - 23
2323900	DDD-p,p'	2.71	Spike	P	0 - 35
2323900	DDE-p,p'	4.56	Spike	P	0 - 27
2323900	DDT-p,p'	9.54	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P413312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323900	Delta-BHC	10.6	Spike	P	0 - 30
2323900	Deltamethrin	19.7	Spike	P	0 - 76
2323900	Dichlobenil	31.5	Spike	P	0 - 33
2323900	Dicofol	10.5	Spike	P	0 - 24
2323900	Dieldrin	1.31	Spike	P	0 - 35
2323900	Endosulfan I	11.6	Spike	P	0 - 25
2323900	Endosulfan II	16.6	Spike	P	0 - 31
2323900	Endosulfan Sulfate	4.51	Spike	P	0 - 38
2323900	Endrin	4.63	Spike	P	0 - 53
2323900	Endrin Aldehyde	10.7	Spike	P	0 - 81
2323900	Endrin Ketone	10.8	Spike	P	0 - 33
2323900	Esfenvalerate	18.2	Spike	P	0 - 46
2323900	Ethalfuralin	9.90	Spike	P	0 - 22
2323900	Fenpropathrin	6.05	Spike	P	0 - 29
2323900	Gamma-BHC	3.27	Spike	P	0 - 17
2323900	Gamma-Chlordane	3.68	Spike	P	0 - 28
2323900	Heptachlor	11.6	Spike	P	0 - 28
2323900	Heptachlor Epoxide	11.8	Spike	P	0 - 23
2323900	Hexachlorobenzene	9.36	Spike	P	0 - 22
2323900	Kepone	11.4	Spike	P	0 - 61
2323900	Lambda-Cyhalothrin	17.2	Spike	P	0 - 52
2323900	Methoprene	5.57	Spike	P	0 - 38
2323900	Methoxychlor	11.7	Spike	P	0 - 29
2323900	MGK-264	11.1	Spike	P	0 - 41
2323900	Mirex	5.39	Spike	P	0 - 39
2323900	Oxychlordane	3.00	Spike	P	0 - 33
2323900	Permethrin	13.8	Spike	P	0 - 39
2323900	Phenothrin	12.9	Spike	P	0 - 52
2323900	Piperonyl Butoxide	5.17	Spike	P	0 - 91
2323900	Prallethrin	0.267	Spike	P	0 - 34
2323900	Tau-Fluvalinate	13.9	Spike	P	0 - 41
2323900	Tetramethrin	12.9	Spike	P	0 - 43
2323900	Trans-Nonachlor	2.19	Spike	P	0 - 31
2323900	Triclosan Methyl	5.98	Spike	P	0 - 24
2323900	Trifluralin	4.91	Spike	P	0 - 23

Reference Method: EPA 8276
Batch ID: P413312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323155	Chlordane	9.67	Spike	P	0 - 25
2323155	Toxaphene	1.44	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P413091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322134	3-Hydroxycarbofuran	7.49	Spike	P	0 - 30
2322134	Aldicarb	14.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P413091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322134	Aldicarb Sulfone	1.59	Spike	P	0 - 30
2322134	Aldicarb Sulfoxide	0.269	Spike	P	0 - 30
2322134	Carbaryl	2.31	Spike	P	0 - 30
2322134	Carbofuran	3.05	Spike	P	0 - 30
2322134	Methiocarb	4.12	Spike	P	0 - 30
2322134	Methomyl	3.65	Spike	P	0 - 30
2322134	Oxamyl	3.47	Spike	P	0 - 30
2322134	Propoxur	2.54	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P413186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323084	2,4-D	44.1	Spike	F	0 - 30
2323084	2,4,5-T	38.3	Spike	F	0 - 30
2323084	Acetaminophen	2.65	Spike	P	0 - 30
2323084	Acetamiprid	7.89	Spike	P	0 - 30
2323084	Afidopyropen	49.9	Spike	F	0 - 30
2323084	Bentazon	13.4	Spike	P	0 - 30
2323084	Benzovindiflupyr	19.1	Spike	P	0 - 30
2323084	Carbamazepine	13.7	Spike	P	0 - 30
2323084	Clothianidin	0.608	Spike	P	0 - 30
2323084	Dinotefuran	4.99	Spike	P	0 - 30
2323084	Diuron	14.5	Spike	P	0 - 30
2323084	Fenuron	2.33	Spike	P	0 - 30
2323084	Fluridone	18.4	Spike	P	0 - 30
2323084	Hydrocodone	30.6	Spike	F	0 - 30
2323084	Ibuprofen	16.8	Spike	P	0 - 30
2323084	Imazapyr	6.92	Spike	P	0 - 30
2323084	Imidacloprid	6.62	Spike	P	0 - 30
2323084	Linuron	14.4	Spike	P	0 - 30
2323084	Mandestrobin	21.2	Spike	P	0 - 30
2323084	MCPP	26.2	Spike	P	0 - 30
2323084	Naproxen	26.3	Spike	P	0 - 30
2323084	Primidone	5.97	Spike	P	0 - 30
2323084	Pyraclostrobin	23.9	Spike	P	0 - 30
2323084	Silvex	55.6	Spike	F	0 - 30
2323084	Thiamethoxam	2.90	Spike	P	0 - 30
2323084	Tolfenpyrad	26.8	Spike	P	0 - 30
2323084	Triclopyr	42.3	Spike	F	0 - 30

Reference Method: EPA 8321B
Batch ID: P413319

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323213	Acesulfame K	1.73	Spike	P	0 - 30
2323213	AMPA	5.57	Spike	P	0 - 30
2323213	Endothall	4.57	Spike	P	0 - 30
2323213	Glufosinate	3.29	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P413319

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323213	Glyphosate	9.30	Spike	P	0 - 30
2323213	Sucralose	4.90	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P413565

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323243	Total Alkalinity	1.45	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P413672

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323149	TDS	4.33	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P413673

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323245	TDS	2.40	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P413567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323243	Fluoride	0.480	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P413819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2324925	Organic Carbon	1.63	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2323315
Field Sample ID: G4NW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	54.8	P	30 - 160

Lab Sample ID: 2323316
Field Sample ID: G4NW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	79.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	50.7	P	30 - 160
EPA 8321B	Diuron-d6	52.6	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.9	P	30 - 160
EPA 8321B	Primidone-d5	84.2	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2323317
Field Sample ID: G4NW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	103	P	38 - 115
EPA 8270E	Decachlorobiphenyl	99.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	55.1	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	52.2	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	89.0	P	30 - 97.0
EPA 8276	PCNB	72.7	P	45 - 119

Lab Sample ID: 2323318
Field Sample ID: G4NW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	102	P	20 - 200
EPA 8270E	Simazine-d10	125	P	71 - 140
EPA 8270E	Terbufos-d10	102	P	62 - 131
EPA 8270E	Terphenyl-d14	85.2	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A111814

Included Lab Sample IDs: 2323293, 2323295, 2323297, 2323298, 2323301, 2323303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	85 - 115
Color (true)	102	100	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A111815

Included Lab Sample IDs: 2323293, 2323295, 2323297, 2323298, 2323301, 2323303

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A111895

Included Lab Sample IDs: 2323319, 2323320, 2323321, 2323322

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	94.1	95.8	P/P	90 - 110
Aluminum	95.8	95.9	P/P	90 - 110
Aluminum	95.9	94.0	P/P	90 - 110
Antimony	100	98.7	P/P	90 - 110
Antimony	97.0	99.1	P/P	90 - 110
Antimony	99.1	100	P/P	90 - 110
Arsenic	94.6	94.9	P/P	90 - 110
Arsenic	94.9	96.0	P/P	90 - 110
Arsenic	96.6	94.6	P/P	90 - 110
Barium	96.0	96.8	P/P	90 - 110
Barium	96.5	95.1	P/P	90 - 110
Barium	96.8	96.5	P/P	90 - 110
Beryllium	91.7	93.5	P/P	90 - 110
Beryllium	93.5	92.8	P/P	90 - 110
Beryllium	93.5	93.5	P/P	90 - 110
Boron	93.5	96.0	P/P	90 - 110
Boron	94.0	93.1	P/P	90 - 110
Boron	96.0	94.0	P/P	90 - 110
Cadmium	94.8	96.1	P/P	90 - 110
Cadmium	96.1	97.2	P/P	90 - 110
Cadmium	97.2	96.1	P/P	90 - 110
Chromium	92.5	95.1	P/P	90 - 110
Chromium	95.0	94.1	P/P	90 - 110
Chromium	95.1	95.0	P/P	90 - 110
Cobalt	92.1	92.9	P/P	90 - 110
Cobalt	92.1	93.4	P/P	90 - 110
Cobalt	92.9	92.1	P/P	90 - 110
Lead	93.4	94.0	P/P	90 - 110
Lead	93.6	93.4	P/P	90 - 110
Lead	94.0	93.2	P/P	90 - 110
Manganese	91.0	95.0	P/P	90 - 110
Manganese	95.0	95.6	P/P	90 - 110
Manganese	95.6	94.7	P/P	90 - 110
Molybdenum	94.3	94.8	P/P	90 - 110
Molybdenum	94.7	94.3	P/P	90 - 110
Molybdenum	94.8	95.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A111895

Included Lab Sample IDs: 2323319, 2323320, 2323321, 2323322

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Nickel	92.4	94.6	P/P	90 - 110
Nickel	93.8	94.2	P/P	90 - 110
Nickel	94.2	92.4	P/P	90 - 110
Selenium	93.9	95.1	P/P	90 - 110
Selenium	95.1	93.6	P/P	90 - 110
Selenium	96.4	93.9	P/P	90 - 110
Silver	94.3	95.0	P/P	90 - 110
Silver	95.0	95.6	P/P	90 - 110
Silver	95.6	95.3	P/P	90 - 110
Thallium	92.5	94.2	P/P	90 - 110
Thallium	93.6	92.5	P/P	90 - 110
Thallium	94.2	92.8	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A111919

Included Lab Sample IDs: 2323319, 2323320, 2323321, 2323322

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	102	P/P	90 - 110
Calcium	102	102	P/P	95 - 105
Calcium	102	100	P/P	90 - 110
Iron	102	104	P/P	95 - 105
Iron	102	105	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Magnesium	101	103	P/P	95 - 105
Magnesium	101	104	P/P	90 - 110
Magnesium	103	101	P/P	90 - 110
Potassium	101	102	P/P	95 - 105
Potassium	101	99.5	P/P	90 - 110
Potassium	99.5	102	P/P	90 - 110
Sodium	100	98.9	P/P	90 - 110
Sodium	101	101	P/P	95 - 105
Sodium	98.9	98.5	P/P	90 - 110
Strontium	100	97.6	P/P	90 - 110
Strontium	101	100	P/P	90 - 110
Strontium	99.0	101	P/P	95 - 105
Tin	101	101	P/P	90 - 110
Tin	101	98.7	P/P	90 - 110
Tin	98.5	97.0	P/P	95 - 105
Titanium	97.1	95.4	P/P	95 - 105
Titanium	98.3	99.0	P/P	90 - 110
Titanium	99.0	96.4	P/P	90 - 110
Vanadium	100	100	P/P	90 - 110
Vanadium	100	98.6	P/P	90 - 110
Vanadium	98.4	97.7	P/P	95 - 105
Zinc	101	102	P/P	90 - 110
Zinc	102	99.8	P/P	90 - 110
Zinc	99.6	97.8	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A111932
Included Lab Sample IDs: 2323316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	81.7	72.3	P/P	50 - 150
2,4,5-T	87.9	90.9	P/P	50 - 150
3-Hydroxycarbofuran	101	101	P/P	60 - 150
Acetaminophen	99.0	101	P/P	60 - 160
Acetamiprid	103	103	P/P	50 - 150
Afidopyropen	74.7	80.7	P/P	50 - 150
Aldicarb	82.3	112	P/P	60 - 150
Aldicarb Sulfone	100	101	P/P	50 - 150
Aldicarb Sulfoxide	95.2	97.6	P/P	50 - 150
Bentazon	102	96.3	P/P	50 - 160
Benzovindiflupyr	94.8	98.6	P/P	50 - 150
Carbamazepine	92.9	94.6	P/P	60 - 150
Carbaryl	95.3	99.2	P/P	60 - 150
Carbofuran	99.6	102	P/P	50 - 150
Clothianidin	104	105	P/P	60 - 150
Dinotefuran	105	105	P/P	50 - 150
Diuron	97.6	99.9	P/P	60 - 160
Fenuron	106	109	P/P	60 - 150
Fluridone	95.2	98.5	P/P	60 - 160
Hydrocodone	96.2	95.3	P/P	60 - 150
Ibuprofen	85.2	108	P/P	50 - 160
Imazapyr	96.3	93.1	P/P	50 - 150
Imidacloprid	101	104	P/P	60 - 150
Linuron	99.2	102	P/P	60 - 150
Mandestrobin	87.9	94.3	P/P	50 - 150
MCPP	84.1	91.5	P/P	50 - 150
Methiocarb	96.2	97.8	P/P	50 - 150
Methomyl	101	107	P/P	50 - 150
Naproxen	101	90.8	P/P	50 - 160
Oxamyl	100	103	P/P	50 - 150
Primidone	95.9	99.4	P/P	60 - 150
Propoxur	101	101	P/P	50 - 150
Pyraclostrobin	81.7	88.5	P/P	60 - 150
Silvex	93.1	88.2	P/P	50 - 150
Thiamethoxam	103	106	P/P	50 - 150
Tolfenpyrad	75.3	81.3	P/P	60 - 150
Triclopyr	86.9	86.3	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A111943
Included Lab Sample IDs: 2323304

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A111948
Included Lab Sample IDs: 2323319, 2323320, 2323321, 2323322

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	94.4	92.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A111948

Included Lab Sample IDs: 2323319, 2323320, 2323321, 2323322

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	97.2	94.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A111958

Included Lab Sample IDs: 2323294, 2323296, 2323299, 2323300, 2323302, 2323304

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A111962

Included Lab Sample IDs: 2323293, 2323295, 2323297, 2323298, 2323301, 2323303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.5	98.5	P/P	90 - 110
Sulfate	100	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111967

Included Lab Sample IDs: 2323294, 2323296, 2323299, 2323300, 2323302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.8	96.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A111975

Included Lab Sample IDs: 2323316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	110	110	P/P	60 - 160
Sucralose	98.0	97.5	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A111978

Included Lab Sample IDs: 2323316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	99.4	95.7	P/P	60 - 160
Endothall	99.4	99.8	P/P	60 - 160
Glufosinate	97.7	92.7	P/P	60 - 160
Glyphosate	92.0	100	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A111988

Included Lab Sample IDs: 2323293, 2323295, 2323297, 2323298, 2323301, 2323303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.0	96.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A111988

Included Lab Sample IDs: 2323293, 2323295, 2323297, 2323298, 2323301, 2323303

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112010

Included Lab Sample IDs: 2323294, 2323296

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

Reference Method: EPA 8276

Run ID: A112019

Included Lab Sample IDs: 2323317

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.7		P	80 - 120
Toxaphene	108		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112031

Included Lab Sample IDs: 2323302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	97.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112035

Included Lab Sample IDs: 2323299, 2323300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.8	P/P	90 - 110
Total-P	98.5	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112040

Included Lab Sample IDs: 2323304

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	98.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112047

Included Lab Sample IDs: 2323317

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	101		P	80 - 120
PCB-1260	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112057

Included Lab Sample IDs: 2323296

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

Reference Method: EPA 8270E

Run ID: A112061

Included Lab Sample IDs: 2323317

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	99.4		P	80 - 120
Alpha-Chlordane	99.4		P	80 - 120
Beta-BHC	95.0		P	80 - 120
Beta-Cyfluthrin	95.8		P	80 - 120
Bifenthrin	95.9		P	80 - 120
Chlorothalonil	93.1		P	80 - 120
Cis-Nonachlor	99.0		P	80 - 120
Cypermethrin	91.7		P	80 - 120
Dacthal	96.2		P	80 - 120
DDD-p,p'	94.5		P	80 - 120
DDE-p,p'	98.1		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	94.9		P	80 - 120
Dichlobenil	97.1		P	80 - 120
Dicofol	94.3		P	80 - 120
Dieldrin	97.1		P	80 - 120
Endosulfan I	95.8		P	80 - 120
Endosulfan II	98.6		P	80 - 120
Endosulfan Sulfate	96.3		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	99.7		P	80 - 120
Endrin Ketone	96.5		P	80 - 120
Esfenvalerate	96.3		P	80 - 120
Ethalfuralin	96.8		P	80 - 120
Fenpropathrin	91.4		P	80 - 120
Gamma-BHC	99.8		P	80 - 120
Gamma-Chlordane	105		P	80 - 120
Heptachlor	100		P	80 - 120
Heptachlor Epoxide	99.1		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	85.5		P	80 - 120
Lambda-Cyhalothrin	92.9		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	99.7		P	80 - 120
MGK-264	96.3		P	80 - 120
Mirex	99.9		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	92.5		P	80 - 120
Phenothrin	92.4		P	80 - 120
Piperonyl Butoxide	95.1		P	80 - 120
Prallethrin	85.8		P	80 - 120
Tau-Fluvalinate	95.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A112061
Included Lab Sample IDs: 2323317

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tetramethrin	91.3		P	80 - 120
Trans-Nonachlor	96.4		P	80 - 120
Triclosan Methyl	96.1		P	80 - 120
Trifluralin	95.5		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A112098
Included Lab Sample IDs: 2323294, 2323299, 2323300, 2323302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.2	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A112112
Included Lab Sample IDs: 2323304

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

Reference Method: SM 5310 B-2011
Run ID: A112128
Included Lab Sample IDs: 2323294, 2323296, 2323299, 2323300, 2323302, 2323304

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

Reference Method: EPA 8270E
Run ID: A112140
Included Lab Sample IDs: 2323318

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	97.5		P	80 - 120
Octinoxate	93.1		P	80 - 120
Oxybenzone	95.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A112161
Included Lab Sample IDs: 2323318

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.1		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	111		P	80 - 120
Atrazine	96.7		P	80 - 120
Atrazine Desethyl	100		P	80 - 120
Azinphos Methyl	80.8		P	80 - 120
Azoxystrobin	94.5		P	80 - 120
Bromacil	98.8		P	80 - 120
Butylate	111		P	80 - 120
Caffeine	92.4		P	80 - 120
Carbophenothion	89.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A112161
Included Lab Sample IDs: 2323318

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	92.4		P	80 - 120
Chlorfenapyr	89.3		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	91.4		P	80 - 120
Coumaphos	83.3		P	80 - 120
Cyanazine	100		P	80 - 120
Cyprodinil	95.4		P	80 - 120
Demeton	99.4		P	80 - 120
Diazinon	93.9		P	80 - 120
Difenoconazole	90.3		P	80 - 120
Dimethenamid	97.2		P	80 - 120
Dimethomorph	104		P	80 - 120
Disulfoton	91.8		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	101		P	80 - 120
Ethion	93.0		P	80 - 120
Ethoprop	97.7		P	80 - 120
Etridiazole	98.5		P	80 - 120
Fenamiphos	90.7		P	80 - 120
Fenbuconazole	87.5		P	80 - 120
Fipronil	88.9		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	88.8		P	80 - 120
Fipronil Sulfone	90.6		P	80 - 120
Fluazifop-P-butyl	80.4		P	80 - 120
Fludioxonil	91.5		P	80 - 120
Flumioxazin	83.1		P	80 - 120
Flutolanil	94.6		P	80 - 120
Fluxapyroxad	90.1		P	80 - 120
Fonofos	85.3		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	90.3		P	80 - 120
Iprodione	87.9		P	80 - 120
Loratadine	101		P	80 - 120
Malathion	95.9		P	80 - 120
Metaxyl	103		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	97.9		P	80 - 120
Mevinphos	98.4		P	80 - 120
Molinate	104		P	80 - 120
Myclobutanil	99.3		P	80 - 120
Naled	95.2		P	80 - 120
Napropamide	81.9		P	80 - 120
Norflurazon	85.4		P	80 - 120
Oxadiazon	97.4		P	80 - 120
Oxyfluorfen	93.4		P	80 - 120
Parathion Ethyl	97.0		P	80 - 120
Parathion Methyl	86.4		P	80 - 120
Pendimethalin	86.8		P	80 - 120
Phenytoin	90.1		P	80 - 120
Phorate	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A112161
Included Lab Sample IDs: 2323318

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prodiamine	97.8		P	80 - 120
Prometon	89.5		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	95.1		P	80 - 120
Propanil	93.5		P	80 - 120
Propargite	99.2		P	80 - 120
Propiconazole	82.9		P	80 - 120
Pyraflufen Ethyl	80.7		P	80 - 120
Pyridaben	86.4		P	80 - 120
Pyriproxyfen	84.9		P	80 - 120
Simazine	106		P	80 - 120
Stiropfos	90.3		P	80 - 120
Sulfentrazone	89.2		P	80 - 120
Tebuconazole	90.7		P	80 - 120
Terbufos	90.6		P	80 - 120
Terbutylazine	83.6		P	80 - 120
Thiobencarb	98.1		P	80 - 120
Triadimefon	102		P	80 - 120

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

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision	
							SMP	MS
DEP SOP: NU-094-1	Color (true)	98.5					4.41	
	Color (true)	98.7					6.02	
EPA 180.1 Rev. 2.0	Turbidity	96.1					18.0	
	Turbidity	96.4					2.77	
EPA 200.7 Rev. 4.4	Calcium	106	105	103	105			1.81
	Iron	106	108	106	108			1.17
	Magnesium	106	107	104	107			1.88
	Potassium	105	103	102	103			1.06
	Sodium	100	100	98.1	104			1.35
	Strontium	102	100	100	102			0.257
	Tin	104	103	102	104			0.796
	Titanium	102	102	100	103			1.52
	Vanadium	96.3	96.2	94.2	98.3			2.18
	Zinc	102	103	101	106			2.56
EPA 200.8 Rev. 5.4	Aluminum	95.4	95.7	99.1	105			3.26
	Antimony	97.1	99.9	103	110			3.28
	Arsenic	95.5	94.1	98.3	107			4.26
	Barium	101	101	104	111			2.46
	Beryllium	92.1	93.1	104	92.9			0.239
	Boron	97.0	97.2	99.9	106			2.50
	Cadmium	95.0	98.0	101	107			3.23
	Chromium	92.6	95.5	98.8	106			3.41
	Cobalt	93.5	93.3	95.8	105			2.62
	Copper	91.2	92.3	96.1	105			4.07
	Lead	95.3	96.5	99.8	108			3.40
	Manganese	93.0	96.9	99.2	106			1.85
	Molybdenum	95.2	96.4	99.5	108			3.17
	Nickel	93.1	93.9	97.2	106			3.43
	Selenium	94.6	92.1	95.6	105			3.69
	Silver	92.5	94.0	92.3	92.8			1.75
	Thallium	97.4	97.5	102	109			4.91
EPA 300.0 Rev. 2.1	Chloride	99.3	96.9	98.6			0.526	
	Sulfate	99.9	96.3	97.5			0.544	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	102	105				1.91
	Ammonia-N	95.4	94.8	95.0				0.182
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.7	103	107				3.20
	Kjeldahl Nitrogen	102						0.103
	Kjeldahl Nitrogen	103						0.590
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	95.4	95.9				0.501
EPA 365.1 Rev. 2.0	Total-P	99.4	104	101				2.34
	Total-P	101	101	101				0.0975
	Total-P	98.6	103	103				0.408
	Total-P	101	100	101				0.833
EPA 8270E	Acetochlor	106	96.7	105				8.19
	Alachlor	103	91.6	101				9.99
	Aldrin	48.5	67.4	68.4				1.40
	Alpha-BHC	89.6	91.6	95.6				4.30
	Alpha-Chlordane	65.5	86.0	95.6				10.5
	Ametryn	108	112	98.8				12.2
	Atrazine	102	96.8	101				4.40
	Atrazine Desethyl	61.2	67.2	66.6				0.954
	Avobenzone	93.2	115	115				0.497
	Azinphos Methyl	151	119	137				14.7
	Azoxystrobin	114	145	121				18.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Beta-BHC	96.0	114	112		1.12
	Beta-Cyfluthrin	46.9	88.8	97.1		8.90
	Bifenthrin	31.0	81.8	78.8		3.82
	Bromacil	85.7	85.9	85.1		0.899
	Butylate	36.5	40.5	42.4		4.53
	Caffeine	66.1	70.4	66.1		5.97
	Carbophenothion	90.4	67.8	77.1		12.8
	Carfentrazone Ethyl	99.4	77.7	78.8		1.46
	Chlorfenapyr	92.3	72.5	89.0		20.4
	Chlorothalonil	75.8	148	253		52.7
	Chlorpyrifos Ethyl	96.7	83.4	99.0		17.2
	Chlorpyrifos Methyl	96.5	88.0	105		17.8
	Cis-Nonachlor	62.6	85.9	79.2		8.15
	Coumaphos	90.0	74.5	86.1		14.4
	Cyanazine	107	87.8	108		21.0
	Cypermethrin	47.0	87.9	96.0		8.85
	Cyprodinil	104	85.2	88.9		4.18
	Dacthal	88.8	87.3	97.2		10.8
	DDD-p,p'	69.8	76.3	78.4		2.71
	DDE-p,p'	67.4	81.3	85.1		4.56
	DDT-p,p'	63.4	79.7	87.6		9.54
	Delta-BHC	100	130	144		10.6
	Deltamethrin	54.0	109	132		19.7
	Demeton	77.2	72.1	87.1		18.8
	Diazinon	105	92.8	110		16.7
	Dichlobenil	89.4	58.8	80.8		31.5
	Dicofol	62.7	72.8	80.9		10.5
	Dieldrin	71.3	85.5	86.7		1.31
	Difenoconazole	142	97.0	123		23.8
	Dimethenamid	83.8	69.8	83.0		17.3
	Dimethomorph	113	95.9	88.0		8.62
	Disulfoton	89.2	77.7	96.9		21.9
	Dithiopyr	102	99.1	94.0		5.25
	Endosulfan I	72.0	86.4	97.0		11.6
	Endosulfan II	84.0	93.1	110		16.6
	Endosulfan Sulfate	92.7	84.0	87.9		4.51
	Endrin	76.0	81.1	84.9		4.63
	Endrin Aldehyde	84.8	74.1	82.4		10.7
	Endrin Ketone	91.9	88.4	98.4		10.8
	EPTC	48.8	45.0	52.5		15.4
	Esfenvalerate	43.5	93.0	112		18.2
	Ethalfuralin	61.9	76.8	84.8		9.90
	Ethion	66.5	34.2	64.9		61.8
	Ethoprop	78.8	81.3	83.0		2.10
	Etridiazole	56.0	56.8	64.4		12.5
	Fenamiphos	92.6	70.1	86.0		20.4
	Fenbuconazole	95.6	83.2	89.9		7.74
	Fenpropathrin	52.0	83.4	88.6		6.05
	Fipronil	101	89.3	99.6		10.9
	Fipronil Desulfinyl	115	96.3	103		6.59
	Fipronil Sulfide	81.5	81.4	88.5		8.39
	Fipronil Sulfone	94.7	73.8	81.2		9.56
	Fluazifop-P-butyl	106	80.8	80.1		0.884
	Fludioxonil	107	82.4	84.0		1.98

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Flumioxazin	129	116	125			7.74
	Flutolanil	101	83.7	86.1			2.92
	Fluxapyroxad	87.4	65.8	69.0			4.69
	Fonofos	81.1	73.2	93.6			24.5
	Gamma-BHC	93.7	101	104			3.27
	Gamma-Chlordane	59.5	79.3	82.2			3.68
	Heptachlor	59.5	70.5	79.2			11.6
	Heptachlor Epoxide	70.6	81.8	92.1			11.8
	Hexachlorobenzene	67.0	77.1	84.6			9.36
	Hexazinone	83.5	83.8	86.0			2.58
	Imazalil	72.6	137	85.4			46.2
	Iprodione	76.7	68.6	79.0			14.1
	Kepone	94.3	110	97.9			11.4
	Lambda-Cyhalothrin	39.3	76.7	91.2			17.2
	Loratadine	101	89.9	75.7			17.2
	Malathion	95.3	88.1	102			14.7
	Metalaxyl	104	79.1	101			24.6
	Methoprene	31.2	75.2	79.5			5.57
	Methoxychlor	77.1	86.5	97.2			11.7
	Metolachlor	102	91.3	93.1			1.99
	Metribuzin	102	102	94.4			7.70
	Mevinphos	73.4	74.3	87.7			16.5
	MGK-264	82.1	83.1	92.9			11.1
	Mirex	40.5	77.3	81.6			5.39
	Molinate	61.0	63.6	71.5			11.8
	Myclobutanil	100	82.6	90.4			9.06
	Naled	92.6	78.3	99.7			24.0
	Napropamide	98.0	71.6	76.2			6.20
	Norflurazon	90.9	77.8	75.7			2.82
	Octinoxate	80.1	112	107			4.37
	Oxadiazon	94.7	75.7	73.1			3.43
	Oxybenzone	64.6	82.9	82.7			0.232
	Oxychlordane	64.0	80.5	82.9			3.00
	Oxyfluorfen	106	80.9	90.6			11.3
	Parathion Ethyl	97.6	82.2	97.6			17.2
	Parathion Methyl	102	97.2	111			13.5
	PCB-1016	93.3	86.1	86.7			0.742
	PCB-1260	99.5	85.0	87.5			2.90
	Pendimethalin	77.1	84.9	89.9			5.70
	Permethrin	45.0	81.0	92.9			13.8
	Phenothrin	30.8	69.8	79.4			12.9
	Phenytoin	33.6	51.3	72.7			34.5
	Phorate	70.4	77.7	91.1			15.9
	Piperonyl Butoxide	107	107	113			5.17
	Prallethrin	70.3	78.8	79.0			0.267
	Prodimamine	44.9	71.1	63.7			10.9
	Prometon	82.2	70.6	79.8			12.2
	Prometryn	103	84.8	93.2			9.44
	Pronamide	102	96.5	111			14.3
	Propanil	96.6	79.4	97.7			20.7
	Propargite	66.9	96.7	103			6.30
	Propiconazole	85.6	67.7	67.3			0.660
	Pyraflufen Ethyl	89.9	79.3	67.4			16.2
	Pyridaben	93.1	74.7	94.9			23.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Pyriproxyfen	38.3	32.9	35.8			8.37
	Simazine	92.1	92.6	90.8			1.96
	Stirophos	64.2	86.7	103			17.6
	Sulfentrazone	82.1	81.0	77.3			4.70
	Tau-Fluvalinate	35.5	79.9	91.8			13.9
	Tebuconazole	51.3	29.7	39.2			27.6
	Terbufos	107	97.6	120			20.4
	Terbuthylazine	99.4	82.3	107			25.9
	Tetramethrin	77.1	103	117			12.9
	Thiobencarb	92.8	86.7	85.7			1.22
	Trans-Nonachlor	56.6	87.8	89.8			2.19
	Triadimefon	77.9	82.9	75.5			9.38
	Triclosan Methyl	77.8	81.6	86.6			5.98
	Trifluralin	62.7	78.1	82.1			4.91
EPA 8276	Chlordane	95.0	74.4	81.9			9.67
	Toxaphene	96.4	97.3	95.9			1.44
EPA 8321B	2,4-D	74.3	96.4	60.3			44.1
	2,4,5-T	84.2	93.8	63.6			38.3
	3-Hydroxycarbofuran	62.6	57.4	53.3			7.49
	Acesulfame K	107	74.3	75.6			1.73
	Acetaminophen	92.9	127	130			2.65
	Acetamiprid	65.2	47.3	43.7			7.89
	Afidopyropen	30.1	52.6	31.6			49.9
	Aldicarb	53.7	46.1	39.9			14.4
	Aldicarb Sulfone	94.0	83.9	85.2			1.59
	Aldicarb Sulfoxide	94.1	47.2	47.0			0.269
	AMPA	89.0	61.0	64.8			5.57
	Bentazon	70.7	34.9	24.8			13.4
	Benzovindiflupyr	68.2	54.5	45.0			19.1
	Carbamazepine	61.5	60.0	52.3			13.7
	Carbaryl	56.2	51.8	50.6			2.31
	Carbofuran	61.9	54.2	55.9			3.05
	Clothianidin	91.8	44.7	44.5			0.608
	Dinotefuran	113	98.6	93.8			4.99
	Diuron	73.5	49.5	42.8			14.5
	Endothall	98.5	98.8	103			4.57
	Fenuron	101	53.3	52.0			2.33
	Fluridone	74.0	59.6	47.0			18.4
	Glufosinate	103	73.9	76.4			3.29
	Glyphosate	91.0	71.2	79.0			9.30
	Hydrocodone	78.8	50.1	36.8			30.6
	Ibuprofen	73.3	62.3	52.6			16.8
	Imazapyr	84.6	74.2	69.3			6.92
	Imidacloprid	73.9	55.3	51.4			6.62
	Linuron	69.4	57.7	49.9			14.4
	Mandestrobin	64.8	57.1	46.1			21.2
	MCPP	102	126	96.5			26.2
	Methiocarb	60.4	45.6	47.5			4.12
	Methomyl	87.6	58.6	56.5			3.65
	Naproxen	57.9	60.1	46.1			26.3
	Oxamyl	92.8	70.9	68.5			3.47
	Primidone	95.4	71.9	67.7			5.97
	Propoxur	62.4	50.3	51.5			2.54
	Pyraclostrobin	59.8	59.8	47.0			23.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Silvex	89.8	106	59.7		55.6
	Sucralose	98.9	97.9	103		4.90
	Thiamethoxam	86.3	52.8	51.3		2.90
	Tolfenpyrad	35.5	41.6	31.7		26.8
	Triclopyr	81.0	93.4	60.8		42.3
SM 2320 B-2011	Total Alkalinity	98.3			1.45	
SM 2540 C-2011	TDS				4.33	
	TDS				2.40	
SM 4500-F- C-2011	Fluoride	98.7	100	99.2		0.480
SM 5310 B-2011	Organic Carbon	96.8	96.0	98.2		1.63

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2323319, 2323320, 2323321, 2323322
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2323319, 2323320, 2323321, 2323322
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2323294, 2323296, 2323299, 2323300, 2323302, 2323304
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2323294, 2323296, 2323299, 2323300, 2323302, 2323304
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2323294, 2323296, 2323299, 2323300, 2323302, 2323304
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2323294, 2323296, 2323299, 2323300, 2323302, 2323304
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2323318
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2323317
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2323318
EPA 8270E	PCBs in water matrices by GC/MS/MS	2323317
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2323317
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2323315
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2323316
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2323316
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2323319, 2323320, 2323321, 2323322
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2323294, 2323296, 2323299, 2323300, 2323302, 2323304

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	04/29/2022			04/29/2022 15:41	Samantha L Bates	2323293
	04/29/2022			04/29/2022 15:44	Samantha L Bates	2323295
	04/29/2022			04/29/2022 15:46	Samantha L Bates	2323297
	04/29/2022			04/29/2022 15:47	Samantha L Bates	2323298, 2323301
	04/29/2022			04/29/2022 15:48	Samantha L Bates	2323303
EPA 180.1 Rev. 2.0	04/29/2022			04/29/2022 14:39	Khloe J Berg	2323293
	04/29/2022			04/29/2022 14:45	Khloe J Berg	2323297
	04/29/2022			04/29/2022 14:46	Khloe J Berg	2323295
	04/29/2022			04/29/2022 14:48	Khloe J Berg	2323298
	04/29/2022			04/29/2022 14:49	Khloe J Berg	2323301
EPA 200.7 Rev. 4.4	04/29/2022			04/29/2022 14:51	Khloe J Berg	2323303
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/04/2022 13:44	Josef B Mick	2323322
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/04/2022 16:53	Josef B Mick	2323319
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/04/2022 17:51	Josef B Mick	2323320
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/04/2022 18:10	Josef B Mick	2323321
EPA 200.8 Rev. 5.4	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/03/2022 20:43	Alexander Thompson	2323322
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/03/2022 23:02	Alexander Thompson	2323319
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/04/2022 00:34	Alexander Thompson	2323321
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/04/2022 00:43	Alexander Thompson	2323320
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/05/2022 12:54	Emily M Philpot	2323322
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/05/2022 13:59	Emily M Philpot	2323319
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/05/2022 14:05	Emily M Philpot	2323320
	04/29/2022	05/03/2022 10:10	Megan Whitefoot	05/05/2022 14:11	Emily M Philpot	2323321
EPA 300.0 Rev. 2.1	04/29/2022			05/06/2022 00:34	Anna M. Plaviak	2323293
	04/29/2022			05/06/2022 00:46	Anna M. Plaviak	2323295
	04/29/2022			05/06/2022 00:58	Anna M. Plaviak	2323297
	04/29/2022			05/06/2022 01:10	Anna M. Plaviak	2323298
	04/29/2022			05/06/2022 01:23	Anna M. Plaviak	2323301
	04/29/2022			05/06/2022 01:35	Anna M. Plaviak	2323303
EPA 350.1 Rev. 2.0	04/29/2022			05/05/2022 16:26	Judith K. Clark	2323304
	04/29/2022			05/06/2022 12:02	Ping Hua	2323296
	04/29/2022			05/06/2022 12:06	Ping Hua	2323294
	04/29/2022			05/06/2022 12:08	Ping Hua	2323299
	04/29/2022			05/06/2022 12:09	Ping Hua	2323300
EPA 351.2 Rev. 2.0	04/29/2022			05/06/2022 12:10	Ping Hua	2323302
	04/29/2022	05/10/2022 14:31	Samantha L Bates	05/11/2022 13:21	Samantha L Bates	2323294
	04/29/2022	05/10/2022 14:31	Samantha L Bates	05/11/2022 13:22	Samantha L Bates	2323299
	04/29/2022	05/10/2022 14:31	Samantha L Bates	05/11/2022 13:24	Samantha L Bates	2323300
	04/29/2022	05/10/2022 14:31	Samantha L Bates	05/11/2022 13:25	Samantha L Bates	2323302
	04/29/2022	05/10/2022 14:32	Samantha L Bates	05/11/2022 09:04	Samantha L Bates	2323296

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 351.2 Rev. 2.0	04/29/2022	05/11/2022 15:45	Samantha L Bates	05/12/2022 16:56	Alexandra J Mattheus	2323304
EPA 353.2 Rev. 2.0	04/29/2022			05/06/2022 10:45	Beverly Y. Sanders	2323294
	04/29/2022			05/06/2022 10:47	Beverly Y. Sanders	2323296
	04/29/2022			05/06/2022 10:48	Beverly Y. Sanders	2323299
	04/29/2022			05/06/2022 10:49	Beverly Y. Sanders	2323300
	04/29/2022			05/06/2022 10:50	Beverly Y. Sanders	2323302
	04/29/2022			05/06/2022 10:51	Beverly Y. Sanders	2323304
EPA 365.1 Rev. 2.0	04/29/2022	05/05/2022 14:45	Simonne.V. Calhoun	05/09/2022 16:51	James L Waggeberby	2323294
	04/29/2022	05/05/2022 14:45	Simonne.V. Calhoun	05/09/2022 16:52	James L Waggeberby	2323296
	04/29/2022	05/09/2022 09:52	Simonne.V. Calhoun	05/10/2022 18:33	James L Waggeberby	2323304
	04/29/2022	05/09/2022 14:45	Simonne.V. Calhoun	05/10/2022 12:37	Sarah A Nixon	2323302
	04/29/2022	05/09/2022 14:45	Simonne.V. Calhoun	05/10/2022 14:51	James L Waggeberby	2323299
	04/29/2022	05/09/2022 14:45	Simonne.V. Calhoun	05/10/2022 15:31	James L Waggeberby	2323300
EPA 8270E	04/29/2022	05/04/2022 08:00	Rasheda Ghaffari	05/10/2022 17:39	Vandana T. Nagar	2323318
	04/29/2022	05/04/2022 08:00	Rasheda Ghaffari	05/11/2022 20:03	Lipi Saha	2323318
	04/29/2022	05/05/2022 08:00	Rasheda Ghaffari	05/09/2022 22:59	Michael Poppell	2323317
	04/29/2022	05/05/2022 08:00	Rasheda Ghaffari	05/10/2022 22:01	Arthur Maknenko	2323317
EPA 8276	04/29/2022	05/05/2022 08:00	Rasheda Ghaffari	05/10/2022 03:52	Julie Wi	2323317
EPA 8321B	04/29/2022	05/03/2022 09:00	Hoor Shaik	05/05/2022 07:51	Juyoung Kim	2323316
	04/29/2022	05/03/2022 09:15	June Rhew	05/05/2022 18:36	Juyoung Kim	2323315
	04/29/2022	05/05/2022 09:00	Umesh Chiluwal	05/05/2022 13:04	Umesh Chiluwal	2323316
	04/29/2022	05/05/2022 09:00	Umesh Chiluwal	05/06/2022 04:36	Umesh Chiluwal	2323316
SM 2320 B-2011	04/29/2022			05/05/2022 02:02	Dale L. Simmons	2323293
	04/29/2022			05/05/2022 02:11	Dale L. Simmons	2323295
	04/29/2022			05/05/2022 02:19	Dale L. Simmons	2323297
	04/29/2022			05/05/2022 02:29	Dale L. Simmons	2323298
	04/29/2022			05/05/2022 02:38	Dale L. Simmons	2323301
	04/29/2022			05/05/2022 02:45	Dale L. Simmons	2323303
SM 2340 B-2011	04/29/2022			05/04/2022 13:44	Josef B Mick	2323322
	04/29/2022			05/04/2022 16:53	Josef B Mick	2323319
	04/29/2022			05/04/2022 17:51	Josef B Mick	2323320
	04/29/2022			05/04/2022 18:10	Josef B Mick	2323321
SM 2540 C-2011	04/29/2022			05/03/2022 14:33	Yijie Li	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
SM 2540 D-2011	04/29/2022			05/03/2022 14:33	Yijie Li	2323293, 2323295, 2323297, 2323298, 2323301, 2323303
SM 4500-F- C-2011	04/29/2022			05/05/2022 02:02	Dale L. Simmons	2323293
	04/29/2022			05/05/2022 02:11	Dale L. Simmons	2323295
	04/29/2022			05/05/2022 02:19	Dale L. Simmons	2323297
	04/29/2022			05/05/2022 02:29	Dale L. Simmons	2323298

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	04/29/2022			05/05/2022 02:38	Dale L. Simmons	2323301
	04/29/2022			05/05/2022 02:45	Dale L. Simmons	2323303
SM 5310 B-2011	04/29/2022			05/12/2022 17:59	Judith K. Clark	2323294
	04/29/2022			05/12/2022 18:18	Judith K. Clark	2323296
	04/29/2022			05/12/2022 18:36	Judith K. Clark	2323299
	04/29/2022			05/12/2022 18:50	Judith K. Clark	2323300
	04/29/2022			05/12/2022 19:08	Judith K. Clark	2323302
	04/29/2022			05/12/2022 19:22	Judith K. Clark	2323304